

Ferraz Shawmut

The New GUIDE



Fuses – Fusegear

Semiconductor Protection Fuses

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Protistor Mapping

Applications	Applications Power	Technology	Standard	150V	200V	250V	300V	400V	440V	450V	500V	550V	600V	650V	660V	690V 700V	750V	800V	850V	900V	950V	1000V	1050V		
UPS * Motor Control * Switching Mode Power Supply	Up to 1kW Using mainly TRIAC IGBT DIODES	CP	US	1A to 60A			1A to 60A				1A to 60A		.1A to 40A			1A to 100A						5A to 60A			
		CP	FR								1A to 30A			.1A to 250A		1A to 200A	1A to 100A	8A to 110A					32A to 170A		
		CP	DIN														12A to 100A								
		CP	BS				5A to 1050A									5A to 800A	12A to 100A								
		PSC low inductance	BS								250A to 315A	200A to 400A			16A to 160A	20A to 500A									
		C1	US		50A to 6000A			70A to 4500A				35A to 1600A			70A to 300A		35A to 2000A							35A to 2000A	
UPS * Motor Control * Drives * Rectifier	Between 1kW to 100kW using mainly THYRISTORS IGBT DIODES	PSC regular	DIN								350A to 400A		450A to 1600A		20A to 1400A	16A to 1000A					1000A to 1100A		630A to 900A	300A to 800A	
		PSC regular	FR				4500A to 4000A			1800A to 2500A	1400A to 4000A	1250A to 3200A	1100A to 2800A		63A to 1800A	50A to 1000A					1000A to 2500A	2200A	630A to 2000A	300A to 1800A	
		PSC regular	US								1800A to 2500A	1400A to 2250A	1250A to 2000A	1100A to 2800A		63A to 2000A					1400A		1000A to 1250A	800A to 1000A	
UPS * Drives * Rectifiers * Traction * High Voltage Distribution * Cycloconverter	Up to 10 MW using mainly Diodes GTO THYRISTORS	PSC LR	FR	2500A to 3750A	1600A to 2200A		2000A to 3200A	550A to 5000A			2500A to 1000A	2000A to 8500A	3600A to 8400A	4800A	3200A to 6400A	2500A to 8400A	1200A to 4500A	3400A to 7400A	1750A to 6400A	1800A to 3350A	1500A to 7200A	1400A to 5500A	1200A to 6400A		
		PSC HV	SP																						
Inverter - UPS with laminated BusBar	Up to 10 MW using mainly IGBT and IGCT	Flat Pack	SP																		450A to 500A		200A to 400A		
Traction - Auxiliary	DC application	C1	SP														5A to 1000A						15A to 1000A		
		CP (end Cap)							2A to 160A							.8A to 110A								1A to 100A	
		PSC (Square)														800A to 1600A		50A to 1500A							
		PSC & Flat Pack																							

Technology

Defined by the fuse size, shape and type of termination.

CP: Cylindrical fuses with a cap crimped to the body. The body can be ceramic or GMG (Glass Melamine Glass). The electrical contacts can be bladed or non bladed style.

C1: Cylindrical fuses made with a GMG body. The electrical contact, bladed or non bladed, is a pinned terminal assembly.

PSC: Square ceramic fuses. The terminals are screwed to the body. Various types exist within the PSC technology: regular, low

inductance, LR (Large Rectifier) and HV (High Voltage).

Flat pack: Rectangular ceramic fuses presenting a very low inductance and excellent high frequency performance.

Standards:

Semiconductor fuses are not governed by standards at this time however soon IEC 269-4 will be implemented. Manufacturers have developed semiconductor fuse types in response to regional practices and market needs. The mechanical connections represented by

050V 00V	1150V 1200V	1250V	1300V	1350V	1450V	1500V	1550V	1600V	1700V	1750V	1800V	1900V	2000V	2100V	2200V	2300V	2400V	2500V	3000V	3200V	3400V	3500V	3600V	3800V	4000V	4200V	6000V	7200V
	.5A to 30A					15A to 30A																						
	45A to 800A					35A to 800A																						
50A to 100A	280A to 700A	63A to 630A											100A to 1250A							20A to 1400A								
50A to 100A	280A to 900A	63A to 1250A											100A to 1250A							20A to 1400A								
100A to 100A	350A to 800A		63A to 900A																									
50A to 100A	1000A to 4600A	800A to 4200A	900A to 2500A	1250A to 3800A	900A to 2100A	630A to 1300A	2800A to 3100A	1100A to 4100A	900A to 1900A			525A to 1700A	1400A to 1500A	800A	750A to 1600A	1100A	850A	630A to 900A	1000A	900A to 2000A	800A to 1500A	500A to 1500A	1250A	400A to 1000A				
						100A to 1500A							100A to 1250A							80A to 700A						10A to 700A		
	80A to 160A												160A to 250A	80A to 125A													225A to 950A	
						.8A to 100A							.8A to 40A												.8A to 20A			
	20A to 420A									6A to 16A			20A to 400A				160A to 400A						6A to 25A		20A to 280A	50A to 375A		

the standards shown in this leaflet follow these regional practices. The following are general descriptions of these standard practices.
 US: North American Standards. Ferrule, round or square fuses with closed slot blades or end contacts with UNC threaded holes.
 FR: French Standards. Ferrule and square fuses with opened slot blades or end contacts with metric threaded holes.
 Din: German Standards. Round and square fuses with brackets according to DIN43620 and DIN 43653.
 BS: British Standards: Round and square fuses with brackets accor-

ding to BS 88-4 standard.
 SP: Special Purpose fuses such as DC fuses. Mounting arrangements are determined by applications requirements.
Third party approval/conformity:
 All fuses are tested to comply with IEC or UL standards.



American Round Fuses - Form 1010 range

A15QS



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A15QS1-2	D230072J	130	A15QS130-4	Q232291J
2	A15QS2-2	E230073J	150	A15QS150-4	T232294J
3	A15QS3-2	F230074J	200	A15QS200-4	Z232299J
4	A15QS4-2	G230075J	250	A15QS250-4	C232302J
5	A15QS5-2	H230076J	300	A15QS300-4	D232303J
6	A15QS6-2	J230077J	400	A15QS400-4	V232318J
7	A15QS7-2	K230078J	450	A15QS450-4	Y232321J
8	A15QS8-2	L230079J	500	A15QS500-4	B232324E
10	A15QS10-2	N230081J	600	A15QS600-4	H232330E
12	A15QS12-2	P230082J	700	A15QS700-4	L232333E
15	A15QS15-2	Q230083J	800	A15QS800-4	R232338E
20	A15QS20-2	R230084J	900	A15QS900-4	X232343E
25	A15QS25-2	S230085J	1000	A15QS1000-4	A232346E
30	A15QS30-2	T230086J	750	A15QS750-128	P232336A
35	A15QS35-1	V230087J	800	A15QS800-128	V232341A
40	A15QS40-1	W230088J	1000	A15QS51000-128	D232349A
45	A15QS45-1	X230089J	1200	A15QS1200-128	F232351A
50	A15QS50-1	Y230090J	1500	A15QS1500-128	H232353A
55	A15QS55-1	Z230091J	2000	A15QS2000-128	P232359A
60	A15QS60-1	A230092J	2500	A15QS2500-128	R232361A
70	A15QS70-4	Z230076J	3000	A15QS3000-128	T232363C
80	A15QS80-4	C230079J	3500	A15QS3500-128	W232365A
90	A15QS90-4	F232282J	4000	A15QS4000-128	Y232367A
100	A15QS100-4	J232285J	5000	A15QS5000-128	B232370A
125	A15QS125-4	M232288J	6000	A15QS6000-128	A232369A

Single Pole Fuse Blocks for A15QS Fuses



Fuse Rating	Cat. Number	Ref. Number
1-30	30311	A212405
31-60	60306J	J211884
61-100	P243D	C219560
101-200	P243D	C219560
201-450	P243D	C219560
500-600	P243G	H222762

Ratings

AC: 1-6000A
150VAC, 100kA I.R.
DC: 1-6000A
150VDC, 100kA I.R.

Highlights

- Fast Acting
- Current Limiting
- Low I²t
- Indicator Options Available

Applications

- Protection of heavy duty devices such as electrochemical-rectifiers

Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2 (1-4000A)
 - DC Tested to UL Standard 198L parameters (1-4000A)

A30QS

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A30QS1-1	A230000	225	A30QS225-4	F226923
2	A30QS2-1	B230001	250	A30QS250-4	H226925
3	A30QS3-1	C230002	275	A30QS275-4	A230276
4	A30QS4-1	D230003	300	A30QS300-4	W226937
5	A30QS5-1	E230004	350	A30QS350-4	S226934
6	A30QS6-1	F230005	400	A30QS400-4	Y226939
7	A30QS7-1	G230006	450	A30QS450-4	N226953
8	A30QS8-1	H230007	500	A30QS500-4	H226948
10	A30QS10-1	K230009	550	A30QS550-4	L226948
12	A30QS12-1	L230010	600	A30QS600-4	D226944
15	A30QS15-1	M230011	700	A30QS700-4	V226959
20	A30QS20-1	N230012	800	A30QS800-4	C226966
25	A30QS25-1	P230013	700	A30QS700-128	T226958
30	A30QS30-1	Q230014	800	A30QS800-128	A226964
35	A30QS35-4	R230015	1000	A30QS1000-128	G226901
40	A30QS40-4	S230016	1200	A30QS1200-128	J226903
50	A30QS50-4	T230017	1500	A30QS1500-128	T226912
60	A30QS60-4	V230018	1600	A30QS1600-128	W226914
70	A30QS70-4	R226956	1800	A30QS1800-128	N230265
80	A30QS80-4	Y226962	2000	A30QS2000-128	D226921
90	A30QS90-4	E226968	2500	A30QS2500-128	L226928
100	A30QS100-4	D226898	3000	A30QS3000-128	Q226932
125	A30QS125-4	L226905	3500	A30QS3500-128	V226936
130	A30QS130-4	N226907	4000	A30QS4000-128	B226942
150	A30QS150-4	Q226909	4500	A30QS4500-128	F226946
175	A30QS175-4	Y226916	5000	A30QS5000-128	G226970
200	A30QS200-4	A226918			



Single Pole Fuse Blocks for A30QS Fuses

Fuse Rating	Cat. Number	Ref. Number
1-30	70316	B223308
31-60	P243G	H222762
61-100	P243	T218517
101-200	P243	T218517
201-400	P243G	H222762
401-700	P243G	H222762



Ratings

AC: 1-4500A
300VAC, 200kA I.R.
DC: 300VDC,
100kA I.R.
L/R= 10ms

Highlights

- Fast Acting
- Current Limiting
- Low I²t
- Indicator Options Available
- Superior DCCapabilities

Applications

- Protection of 300 volts (or less) heavy duty rectifiers and similar heavy duty power supplies

Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2 (35-4500A) CSA



A50QS



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
35	A50QS35-4	Q214834	250	A50QS250-4	W211251
40	A50QS40-4	Y215853	300	A50QS300-4	D212799
50	A50QS50-4	W217392	350	A50QS350-4	T215343
60	A50QS60-4	A218937	400	A50QS400-4	B216362
70	A50QS70-4	B222664	450	A50QS450-4	E216871
80	A50QS80-4	L201513	500	A50QS500-4	L218418
90	A50QS90-4	X211252	600	A50QS600-4	Q219457
100	A50QS100-4	A216361	700	A50QS700-4	N223181
125	A50QS125-4	K218417	800	A50QS800-4	C202287
150	A50QS150-4	P219456	900	A50QS900-4	R212282
175	A50QS175-4	A222663	1000	A50QS1000-4	V217391
200	A50QS200-4	T200968	1200	A50QS1200-4	C217904
225	A50QS225-4	K201512			

Single Pole Fuse Blocks for A50QS Fuses



Fuse Rating	Cat. Number	Ref. Number
35-200	P243E	X222016
225-600	P266C	K212897

Ratings

AC: 35-60A
500VAC, 200kA I.R.
70-1200A
500VAC, 200kA I.R.
DC: 35-1200A
500VDC, 100kA I.R.

Highlights

- 500V AC/DC Rated
- Lowest I2t
- Low Watts Loss
- Superior Cycling Ability

Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2
- DC Tested to UL Standard 198L parameters (70-1200A)
- CSA Certified LR1 2636

Applications

- Protection of 500V or less motor drives, UPS, inverters, etc.

A50P



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
10	A50P10-1	C216869	35	A50P35-4	W202281
15	A50P15-1	B217903	40	A50P40-4	E211765
20	A50P20-1	Y218935	50	A50P50-4	C212798
25	A50P25-1	G219978	60	A50P60-4	P214833
30	A50P30-1	Z222662			

Single Pole Fuse Blocks for A50P Fuses



Fuse Rating	Cat. Number	Ref. Number
10-30	70306	W219071
35-60	P243G	H222762
70-200	P243E	X222016
225-600	P266C	K212897

Ratings

AC: 10-1200A
500VAC, 100kA I.R.
DC: 35-1000A
450VDC, 79kA I.R.
L/R = 10ms

Highlights

- Very Fast Acting
- Current Limiting
- Lowest I2t
- Indicator Options Available

Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2 (10-800A)
- DC : UL Guide No. JFHR2 (35-800A)

Applications

- Protection of DC drives, UPS and other equipment of 500 volts or less

American Round Fuses - Form 101 range

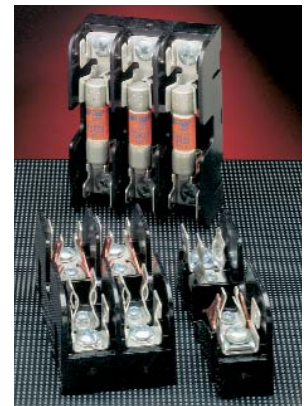
A60Q

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
5	A60Q5-2	E217400	20	A60Q20-2	B214338
6	A60Q5-2	E217400	25	A60Q25-2	Z214842
8	A60Q8-2	T218425	30	A60Q30-2	E215859
10	A60Q10-2	Z212289	35	A60Q35-2	J216369
12	A60Q12-2	M212807	40	A60Q40-2	E218879
15	A60Q15-2	X213322			



Fuse holders for A60Q fuses

Number of Poles	Catalog Number			Reference Number		
	Screw w/double quick connects at both ends	Pressure plate (sems) w/double quick connects at both ends	Copper box	Screw w/double quick connects at both ends	Pressure plate (sems) w/double quick connects at both ends	Copper box
ADDER	30310	30320	30350	N211888	S218033	F214457
1	30311	30321	30351	A212405	Y218544	G214964
2	30312	30322	30352	E214456	K222787	L216486
3	30313	30323	30353	F214963	B201642	Z217004
4	30314	30324	30354	J215472	H211377	J217519



Ratings

AC: 5-40A 600VAC, 200kA I.R.

DC: 5-40A 600VDC, 100kA I.R. L/R = 10ms

Highlights

- 600VAC/DC Rated
- Extremely Fast Acting
- Current Limiting
- Lowest I²t
- Excellent Cycling Ability

Applications

- Protection of small inverters and drives, and equipment requiring the highest degree of protection

Approvals

- UL Recognized Component
- AC: UL Guide JFHR2 File E60314
- DC : UL File E60314



A60X



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A60X1-1	R201518	175	A60X175-4	Q223183
2	A60X2-1	Y212288	200	A60X200-4	H211768
3	A60X3-1	P213821	200	A60X200-4TA	G212802
4	A60X4-1	A215349	225	A60X225-4	T214837
5	A60X5-1	L217912	250	A60X250-4	Z217395
6	A60X6-1	O219986	250	A60X250-4TA	D218940
7	A60X7-1	C200976	300	A60X300-4	N201515
8	A60X8-1	S201519	300	A60X300-4TA	V212285
10	A60X10-1	D202633	350	A60X350-4	X214334
12	A60X12-1	D211258	350	A60X350-4TA	X215346
15	A60X15-1	M211772	400	A60X400-4	B215856
20	A60X20-1	L212806	400	A60X400-4TA	A217396
25	A60X25-1	W213321	450	A60X450-4	P218421
30	A60X30-1	A214337	450	A60X450-4TA	V219461
35	A60X35-4	Y214841	500	A60X500-4	E222667
40	A60X40-4	M216878	500	A60X500-4TA	P201516
45	A60X45-4	D217399	600	A60X600-4	K211770
50	A60X50-4	S218424	600	A60X600-4TA	J212804
55	A60X55-4	Y219464	700	A60X700-4	G216367
60	A60X60-4	G222669	700	A60X700-128	C215857
70	A60X70-4	Y214335	800	A60X800-4	T223186
80	A60X80-4	B217397	800	A60X800-4TA	A200974
80	A60X80-4TA	O218422	800	A60X800-128	F218942
90	A60X90-4	O201517	1000	A60X1000-128	S212283
100	A60X100-4	D202288	1200	A60X1200-128	O213316
100	A60X100-4TA	G211767	1500	A60X1500-128	C218939
125	A60X125-4	S214836	1600	A60X1600-128	L219982
125	A60X125-4TA	D216364	1800	A60X1800-128	Z211254
150	A60X150-4	G216873	2000	A60X2000-128	K213817
150	A60X150-4TA	N218420			

Single Pole Fuse Blocks for A60X Fuses



Fuse Rating	Cat. Number	Ref. Number
1-30	60306	V211871
31-60	P243C	M219040
61-100	P243C	M219040
101-200	P243C	M219040
201-400	P266A	Y212380
401-600	P266A	Y212380

Ratings

AC: 1-2000A 600V, 100kA I.R.

Highlights

- Fast Acting
- Current Limiting
- Low I²t
- Indicator Options Available

Applications

- Protection of heavy traction and electro chemical as well as rectifiers and other heavy-duty equipment

Approvals

- UL Recognized Component
- AC: UL Guide No.JFHR2 (35-800A)

A70QS

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
35	A70QS35-4	D202748	200	A70QS200-4	V212814
40	A70QS40-4	Y213829	200	A70QS200-4K	E213329
50	A70QS50-4	T217919	250	A70QS250-4	L217406
60	A70QS60-4	H219473	300	A70QS300-4	O218951
70	A70QS70-4	B201527	350	A70QS350-4	M211266
80	A70QS80-4	X212816	400	A70QS400-4	J214345
90	A70QS90-4	K214346	450	A70QS450-4	F214848
100	A70QS100-4	G214343	450	A70QS450-4K	H215356
125	A70QS125-4	L215865	500	A70QS500-4	A218431
125	A70QS125-4K	Q216375	500	A70QS500-4K	R218952
150	A70QS150-4	P218950	600	A70QS600-4	Y219993
150	A70QS150-4K	F219471	600	A70QS600-4K	P222676
175	A70QS175-4	A223192	700	A70QS700-4	E202772
175	A70QS175-4K	J200982	800	A70QS800-4	Z213830



Single Pole Fuse Blocks for A70QS Fuses

Fuse Rating	Cat. Number	Ref. Number
35-200	P243C	M219040
225-600	P266A	Y212380
700-800	15C 375	



Ratings

AC: 35-800A 700VAC, 200kA I.R.
DC: 35-800A 700VDC, 100kA I.R. L/R = 10ms

Highlights

- 700V AC/DC Rated
- Very low I²t
- Low Watts Loss
- Superior Cycling Ability

Applications

- Protection of 700V less motor drives, UPS, inverters, etc.

Approvals

- UL Recognized Component AC/DC
- AC: GuideNo.JFHR2
- DC: Tested to UL Standard 198L Parameters (35-800A)
- CSA Certified File LR 12636



A70P



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
10	A70P10-1	R212811	150	A70P150-4TA	B215350
10	A70P10-4	B213326	150	A70P150-4TI	F215860
15	A70P15-1	F214342	175	A70P175-4	N217914
15	A70P15-4	C214845	200	A70P200-4	K218946
20	A70P20-1	D215352	200	A70P200-4TA	A219466
25	A70P25-1	N216373	200	A70P200-4TI	S219988
25	A70P25-4	S216883	225	A70P225-4	E200978
30	A70P30-1	J217404	250	A70P250-4	V201521
30	A70P30-4	R217917	250	A70P250-4TA	G211261
35	A70P35-4	D214340	250	A70P250-4TI	Q211775
40	A70P40-4	Q216881	300	A70P300-4	P212809
40	A70P40-4TA	P217915	350	A70P350-4	C215351
40	A70P40-4TI	W218427	400	A70P400-4	L218947
50	A70P50-4	W202695	400	A70P400-4TA	Y223190
60	A70P60-4	A213325	400	A70P400-4TI	F200979
60	A70P60-4TA	S213824	450	A70P450-4	W201522
60	A70P60-4TI	E214341	500	A70P500-4	H211262
70	A70P70-4	H217403	600	A70P600-4	H215862
70	A70P70-4TI	Q217916	600	A70P600-4TA	M216372
80	A70P80-4	V219990	600	A70P600-4TI	R216882
80	A70P80-4TA	L222673	700	A70P700-4	M218948
80	A70P80-4TI	Z223191	700	A70P700-4TI	C219468
90	A70P90-4	J211263	800	A70P800-4	G200980
100	A70P100-4	J218945	800	A70P800-4TI	X202696
100	A70P100-4TA	R219987	900	A70P900-4	D212293
125	A70P125-4	P211774	1000	A70P1000-4	D200977
125	A70P125-4TA	N212808	1200	A70P1200-4	F211260
150	A70P150-4	A214843			

Single Pole Fuse Blocks for A70P Fuses



Fuse Rating	Cat. Number	Ref. Number
10-30 (Type 1)	70316	B223308
31-60	P243C	M219040
61-100	P243C	M219040
101-200	P266A	Y212380
201-400	P266A	Y212380
401-600	P266F	S213410
601-800	1SC375	Q210579B

Ratings

AC: 10-1000A 700VAC, 100kA I.R.
DC: 10-800A 650VDC, 100kA I.R. L/R = 10ms

Highlights

- Very Fast Acting
- Current Limiting
- Low I²t
- Indicator Options Available

Applications

- Protection of 700V or less DC drives, UPS, inverters, reduced voltage starters, etc.

Approvals

- UL Recognized Component
- AC: GuideNo.JFHR2 (10-1000A)
- DC: Tested to UL Standard 198L Parameters (10-800A)

A70P

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
35	A70Q35-4	D214846	175	A70Q175-4	Y202697
40	A70Q40-4	T216884	200	A70Q200-4	T211778
50	A70Q50-4	N218949	250	A70Q250-4	S212812
60	A70Q60-4	W219991	300	A70Q300-4	V213826
70	A70Q70-4	R202714	350	A70Q350-4	E215353
80	A70Q80-4	K211264	400	A70Q400-4	K217405
90	A70Q90-4	V211779	450	A70Q450-4	S217918
100	A70Q100-4	Y218429	500	A70Q500-4	E219470
125	A70Q125-4	D219469	600	A70Q600-4	M222674
150	A70Q150-4	H200981			



Single Pole Fuse Blocks for A70Q Fuses

Fuse Rating	Cat. Number	Ref. Number
35-100	P243C	M219040
125-400	P266A	Y212380
450-600	P266F	S213410



Ratings

AC: 35-600A 700VAC, 100kA I.R.
 DC: 35-600A 650VDC, 100kA I.R. L/R = 10ms

Highlights

- Extremely Fast Acting
- Current Limiting
- Lowest I²t

Applications

- Protection of inverters and other equipment requiring the best AC or DC protection in this voltage range

Approvals

- UL Recognized Component
- AC: GuideNo.JFHR2
- DC: Tested to UL Standard 198L Parameters (35-600A)

A100P

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
315	A100P15-1	D222643	200	A100P200-4	J212781
20	A100P20-1	Y212265	200	A100P200-4TI	X213299
25	A100P25-1	J216852	225	A100P225-4	F216343
30	A100P30-1	E218918	250	A100P250-4	Z217372
35	A100P35-4	S223162	300	A100P300-4	T219437
40	A100P40-4	A211232	300	A100P300-4TI	E222644
50	A100P50-4	Q213799	350	A100P350-4	Q201494
50	A100P50-4TI	Y214312	350	A100P350-4TI	X202190
60	A100P60-4	G216344	400	A100P400-4	Z212266
60	A100P60-4TI	K216853	400	A100P400-4TI	Y213300
65	A100P65-4	-	500	A100P500-4	W214816
70	A100P70-4TI	-	500	A100P500-4TI	C215834
80	A100P80-4	R201495	600	A100P600-4	A217373
80	A100P80-4TI	Y202191	600	A100P600-4TI	Q218399
100	A100P100-4	A215832	650	A100P650-4	F218919
100	A100P100-4TI	E216342	700	A100P700-4	T223163
125	A100P125-4	D218917	800	A100P800-4	B211233
125	A100P125-4TI	-	800	A100P800-4TI	L212783A
150	A100P150-4	R223161	1000	A100P1000-4	Y217371
150	A100P150-4TI	Y200949			



Single Pole Fuse Blocks for A100P Fuses



Fuse Rating	Cat. Number	Ref. Number
35-100	P266G	Z214428
125-400	P266L	J215955

Ratings

AC: 15-30A 1000VAC, 100kA I.R.
35-1000A 1000VAC, 100kA I.R.
DC: 15-1000A 750VDC, 100kA I

Highlights

- Fast Acting
- Current Limiting
- Low I²t
- Optional Trigger Indicator

Applications

- Protection of UPS systems AC/DC drives, reduced voltage motor starters and other 1000V or less semiconductor devices
- Spare markets only for new installations, refer to PC range

Approvals

- UL Recognized Component
- AC: UL Guide No. JFHR2 (60-800A)
- DC: Ferraz Shawmut Certified

A120X



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1/2	A120X1/2-1	T218954	6	A120X6-1	W216380
1	A120X1-1	C218433	10	A120X10-1	K219475
2	A120X2-1	E223196	15	A120X15-1	R222678
3	A120X3-1	P211268	20	A120X20-1	M200985
4	A120X4-1	Z212818	25	A120X25-1	E202864
5	A120X5-1	J214851	30	A120X30-1	Z211783

Single Pole Fuse Blocks for A120X Fuses



Fuse Rating	Cat. Number	Ref. Number
1/2-30	P292	T216976

Ratings

AC: 1/2-30A 1200VAC, 100kA I.R.
DC: 1/2-30A 1000VDC, 100kA I.R. L/R = 10ms

Highlights

- Fast Acting
- Current Limiting
- Low I²t
- Compact Size

Applications

Protection of traction drive auxiliary circuits, etc.

Approvals

- Ferraz Shawmut Certified

American Round Fuses - Form 101 range

A150X

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A150X1-1	J213333	90	A150X90-4	R215364
15	A150X15-1	Q200988	100	A150X100-4	Q215869
15	A150X15-4	F201531	125	A150X125-4	M219477
20	A150X20-1	R215870	150	A150X150-4	K213334
20	A150X20-4	C216892	175	A150X175-4	C213833
25	A150X25-4	E218435	200	A150X200-4	A217925
30	A150X30-1	V222681	250	A150X250-4	N219478
30	A150X30-4	J223200	300	A150X300-4	G201532
35	A150X35-4	C211786	400	A150X400-4	Q214351
40	A150X40-4	D213834	450	A150X450-4	Y216382
50	A150X50-4	S217412	500	A150X500-4	B217926
60	A150X60-4	D219998	600	A150X600-4	K223201
70	A150X70-4	N212302	800	A150X800-4	N214855
80	A150X80-4	E213835	1000	A150X1000-4	

Ratings

AC: 1A to 1000A 1500VAC, 100kA I.R.
DC: 1A to 1000A 1000VDC, 100kA I.R. L/R = 1000ms

Highlights

- Fast Acting
- Current Limiting
- Low I²t

Applications

Protection of traction drive auxiliary circuits, etc.

Approvals

- Ferraz Shawmut Certified



American Round Fuses - Form 101 orange



Other American Round Fuses

A25Z-2



Ratings

AC: 1-30A 300VAC, 100kA I.R.

Highlights

- 300 Volt Rated
- Current Limiting
- Pt Rated

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A25Z1-2	S211133	10	A25Z10-2	J211654
2	A25Z2-2	R213202	12	A25Z12-2	O212166
3	A25Z3-2	S214721	15	A25Z15-2	G212687
4	A25Z4-2	A215740	20	A25Z20-2	J213701
5	A25Z5-2	G216252	25	A25Z25-2	P214212
8	A25Z8-2	E216756	30	A25Z30-2	W215230

Applications

Semiconductor Protection

Approvals

- Ferraz Shawmut Certified

A070gRB



Ratings

AC: 1-30A 160kA, 700V
 DC: 550VDC, L/R = 10ms

Highlights

- Extremely Fast Acting
- Current Limiting
- Low I²t
- Excellent Cycling Capability
- gR

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A070GRB01T13	W330000	6	A070GRB06T13	E330008
1.25	A070GRB1.25T13	X330001	8	A070GRB08T13	F330009
1.5	A070GRB1.5T13	Y330002	10	A070GRB10T13	G330010
2	A070GRB2T13	Z330003	12.5	A070GRB12.5T13	H330011
2.5	A070GRB02.5T13	A330004	16	A070GRB16T13	J330012
3	A070GRB03T13	B330005	20	A070GRB20T13	K330013
4	A070GRB04T13	C330006	25	A070GRB25T13	L330014
5	A070GRB05T13	D330007	30	A070GRB30T13	M330015

Applications

Protection of small inverters, UPS systems, motor drives and similar 700v or less equipment

Approvals

- UL Recognized Component
- IEC 269-4 Compliance
- AC: UL Guide No. JFHR2

A70QS



Ratings

AC: 1-30A 160kA, 700V
 DC: 550VDC, L/R = 10ms

Size 14x51			Size 22x58		
Ampere Rating	Cat. Number w/o Striker	Cat. Number With Striker	Ampere Rating	Cat. Number w/o Striker	Cat. Number With Striker
6	A70QS6-14F	A70QS6-14FI	10	A70QS10-22F	A70QS10-22FI
8	A70QS8-14F	A70QS18-14FI	15	A70QS15-22F	A70QS15-22FI
10	A70QS10-14F	A70QS10-14FI	20	A70QS20-22F	A70QS20-22FI
12	A70QS12-14F	A70QS12-14FI	25	A70QS25-22F	A70QS25-22FI
16	A70QS16-14F	A70QS16-14FI	32	A70QS32-22F	A70QS32-22FI
20	A70QS20-14F	A70QS20-14FI	40	A70QS40-22F	A70QS40-22FI
25	A70QS25-14F	A70QS25-14FI	50	A70QS50-22F	A70QS50-22FI
32	A70QS32-14F	A70QS32-14FI	63	A70QS63-22F	A70QS63-22FI
40	A70QS40-14F	A70QS40-14FI	70	A70QS70-22F	A70QS70-22FI
50	A70QS50-14F	A70QS50-14FI	80	A70QS80-22F	A70QS80-22FI
			90	A70QS90-22F	A70QS90-22FI
			100	A70QS100-22F	A70QS100-22FI

Highlights

- Extremely Fast Acting
- Current Limiting
- Low I²t
- Excellent Cycling Capability
- gR

Applications

Protection of small inverters, UPS systems, motor drives and similar 700v or less equipment

Approvals

- UL Recognized Component
- IEC 269-4 Compliance
- AC: UL Guide No. JFHR2

10.3 x 38 URD and gRB w/o striker

Current	Rating - Curve	Ref. number	Cat.Number	Cond
100mA	600 V URD	H077632J	A060UD0.100T13	10
125mA	600 V URD	J077633J	A060UD0.125T13	10
160mA	600 V URD	K077634J	A060UD0.160T13	10
200mA	600 V URD	L077635J	A060UD0.200T13	10
250mA	600 V URD	M077636J	A060UD0.250T13	10
315mA	600 V URD	N077637J	A060UD0.315T13	10
400mA	600 V URD	P077638J	A060UD0.400T13	10
500mA RU	600 V URD	Q077639J	A060UD0.500T13	10
630mA RU	600 V URD	R077640J	A060UD0.630T13	10
800mA RU	600 V URD	S077641J	A060UD0.800T13	10
1 RU	690 V gRC	Z330279J	FR10GB69V1	10
1,25 RU	690 V gRB	X330001J	FR10GB69V1.25	10
1,5 RU	690 V gRB	Y330002J	FR10GB69V1.5	10
2 RU	690 V gRB	Z330003J	FR10GB69V2	10
2,5 RU	690 V gRB	A330004J	FR10GB69V2.5	10
3 RU	690 V gRB	B330005J	FR10GB69V3	10
4 RU	690 V gRB	C330006J	FR10GB69V4	10
5 RU	690 V gRB	D330007J	FR10GB69V5	10
6 RU	690 V gRB	E330008J	FR10GB69V6	10
8 RU	690 V gRB	F330009J	FR10GB69V8	10
10 RU	690 V gRB	G330010J	FR10GB69V10	10
12,5 RU	690 V gRB	H330011J	FR10GB69V12.5	10
16 RU	690 V gRB	J330012J	FR10GB69V16	10
20 RU	690 V gRB	K330013J	FR10GB69V20	10
25 RU	690 V gRB	L330014J	FR10GB69V25	10
30 RU	690 V gRB	M330015J	FR10GB69V30	10
32 RU	690 V gRB	Y330278J	FR10GB69V32	10
Neutral		R211569J	FRN1038	10



10.3 x 38 URD/URB/URL with striker

Current	Rating - Curve	Ref. number	Cat.Number	Cond
1 A	500 V URD	P076925	A050URD1T13I	10
1.25 A	500 V URD	H076597	A050URD1.2T13I	10
1.6 A	500 V URD	G076596	A050URD1.6T13I	10
2 A	500 V URD	Q076926	A050URD2T13I	10
2.5 A	500 V URD	F076595	A050URD2.5T13I	10
3.15 A	500 V URD	R076927	A050URD3T13I	10
4 A	500 V URD	S076928	A050URD4T13I	10
5 A	500 V URD	T076929	A050URD5T13I	10
6 A	500 V URD	V076930	A050URB6T13I	10
8 A	500 V URD	W076931	A050URB8T13I	10
10 A	500 V URD	X076932	A050URB10T13I	10
12 A	500 V URD	Y076933	A050URB12T13I	10
16 A	500 V URD	Z076934	A050URB16T13I	10
20 A	500 V URD	A076935	A050URB20T13I	10
25 A	500 V URL	B076936	A050URL25T13I	10
30 A	500 V URD	C076937	A050URL30T13I	10



14 x 51 gRC w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
1	690 V gRC	E221080J	FR14GC69V1	10
2	690 V gRC	H081473J	FR14GC69V2	10
4	690 V gRC	J081474J	FR14GC69V4	10
6	690 V gRC	T220909J	FR14GC69V6	10
8	690 V gRC	S220908J	FR14GC69V8	10
10	690 V gRC	R220907J	FR14GC69V10	10
12	690 V gRC	Q220906J	FR14GC69V12	10
16	690 V gRC	P220905J	FR14GC69V16	10
20	690 V gRC	E220735J	FR14GC69V20	10
25	690 V gRC	N220904J	FR14GC69V25	10
32	690 V gRC	W220819J	FR14GC69V32	10
40	690 V gRC	M220903J	FR14GC69V40	10
50	690 V gRC	L220902J	FR14GC69V50	10

14 x 51 gRC/URC with striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
1	690 V gRC	F221081J	FR14GC69V1T	10
2	690 V gRC	L081476J	FR14GC69V2T	10
4	690 V gRC	F081517J	FR14GC69V4T	10
6	690 V gRC	B220939J	FR14GC69V6T	10
8 RL	690 V gRC	A220938J	FR14GC69V8T	10
10 RL	690 V gRC	Z220937J	FR14GC69V10T	10
12 RL	690 V gRC	Y220936J	FR14GC69V12T	10
16 RL	690 V gRC	X220935J	FR14GC69V16T	10
20 RL	690 V gRC	W220934J	FR14GC69V20T	10
25 RL	690 V gRC	V220933J	FR14GC69V25T	10
32 RL	690 V gRC	V220818J	FR14GC69V32T	10
40 RL	690 V gRC	M220949J	FR14GC69V40T	10
50 RL	690 V gRC	N220950J	FR14GC69V50T	10
63	690 V URC	V220910J	FR14UC60V63T	10

14 x 51 URC w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
6	690 V URC	K081475J	FR14UC69V6	10
8	690 V URC	S093902J	FR14UC69V8	10
10	690 V URC	T093903J	FR14UC69V10	10
12	690 V URC	V093904J	FR14UC69V12	10
16	690 V URC	W093905J	FR14UC69V16	10
20	690 V URC	X093906J	FR14UC69V20	10
25	690 V URC	Y093907J	FR14UC69V25	10
32	690 V URC	Z093908J	FR14UC69V32	10
40	690 V URC	A093909J	FR14UC69V40	10
50	690 V URC	B093910J	FR14UC69V50	10



14 x 51 URC/URD with striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
6	690 V URC	G081518J	FR14UC69V6T	10
8	690 V URC	C093911J	FR14UC69V8T	10
10	690 V URC	D093912J	FR14UC69V10T	10
12	690 V URC	E093913J	FR14UC69V12T	10
16	690 V URC	F093914J	FR14UC69V16T	10
20	690 V URC	G093915J	FR14UC69V20T	10
25	690 V URC	H093916J	FR14UC69V25T	10
32	690 V URC	J093917J	FR14UC69V32T	10
40	690 V URD	T100136J	FR14UD69V40T	10
50	690 V URD	V100137J	FR14UD69V50T	10



14 x 51 URGB w/o striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
8	690 V URGB	T078033J	FR14UB69V8	10
10	690 V URGB	V078034J	FR14UB69V10	10
12	690 V URGB	W078035J	FR14UB69V12	10
16	690 V URGB	X078036J	FR14UB69V16	10
20	690 V URGB	Y078037J	FR14UB69V20	10
25	690 V URGB	Z078038J	FR14UB69V25	10
32	690 V URGB	A078039J	FR14UB69V32	10
40	690 V URGB	B078040J	FR14UB69V40	10
50	690 V URGB	C078041J	FR14UB69V50	10



14 x 51 URGB with striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
8	690 V URGB	D078042J	FR14UB69V8T	10
10	690 V URGB	E078043J	FR14UB69V10T	10
12	690 V URGB	F078044J	FR14UB69V12T	10
16	690 V URGB	G078045J	FR14UB69V16T	10
20	690 V URGB	H078046J	FR14UB69V20T	10
25	690 V URGB	J078047J	FR14UB69V25T	10
32	690 V URGB	K078048J	FR14UB69V32T	10
40	690 V URGB	L078049J	FR14UB69V40T	10
50	690 V URGB	M078050J	FR14UB69V50T	10



22 x 58 gRC w/o striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
20	690 V gRC	C220940J	FR22GC69V20	10
25	690 V gRC	B220916J	FR22GC69V25	10
32	690 V gRC	A220915J	FR22GC69V32	10
40	690 V gRC	Z220914J	FR22GC69V40	10
50	690 V gRC	Y220913J	FR22GC69V50	10
63	690 V gRC	X220912J	FR22GC69V63	10
80	690 V gRC	Y220821J	FR22GC69V80	10
100	690 V gRC	W220911J	FR22GC69V100	10
125	600 V gRC	A220708J	FR22UD60V125T	10
135	600 V gRC	B220709J	FR22UD60V135T	10



22 x 58 gRC/URD with striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
20 gR	690 V gRC	D220734J	FR22GC69V20T	10
25 gR	690 V gRC	G220921J	FR22GC69V25T	10
32 gR	690 V gRC	F220920J	FR22GC69V32T	10
40 gR	690 V gRC	E220919J	FR22GC69V40T	10
50 gR	690 V gRC	D220918J	FR22GC69V50T	10
63 gR	690 V gRC	C220733J	FR22GC69V63T	10
80 gR	690 V gRC	X220820J	FR22GC69V80T	10
100 gR	690 V gRC	C220917J	FR22GC69V100T	10
125	600 V URD	A220708J	FR22UD60V125T	10
135	600 V URD	B220709J	FR22UD60V135T	10

22 x 58 URD w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
25	690 V URD	B093956J	FR22UD69V25	10
32	690 V URD	Z094828J	FR22UD69V32	10
40	690 V URD	S094822J	FR22UD69V40	10
50	690 V URD	W094779J	FR22UD69V50	10
63	690 V URD	T094823JJ	FR22UD69V63	10
80	690 V URD	A094829J	FR22UD69V80	10
100	690 V URD	Y094827J	FR22UD69V100	10

22 x 58 URD with striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
25	690 V URD	H093801J	FR22UD69V25T	10
32	690 V URD	C093957J	FR22UD69V32T	10
40	690 V URD	J093802J	FR22UD69V40T	10
50	690 V URD	D093958J	FR22UD69V50T	10
63	690 V URD	K093803J	FR22UD69V63T	10
80	690 V URD	E093959J	FR22UD69V80T	10
100	690 V URD	F093960J	FR22UD69V100T	10
125	600 V URD	A220708J	FR22UD60V125T	10
135	600 V URD	B220709J	FR22UD60V135T	10

22 x 58 URGA w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
25	690 V URGA	C095245J	FR22UA69V25	10
32	690 V URGA	D095246J	FR22UA69V32	10
40	690 V URGA	E095247J	FR22UA69V40	10
50	690 V URGA	F095248J	FR22UA69V50	10
63	690 V URGA	G095249J	FR22UA69V63	10
80	690 V URGA	H095250J	FR22UA69V80	10
100	690 V URGA	N078051J	FR22UA69V100	10

Ferrule-style Protistor fuses

Protistor

22 x 58 URGA with striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
25 A	690 V URGA	T095260J	FR22UA69V25T	10
32 A	690 V URGA	V095261J	FR22UA69V32T	10
40 A	690 V URGA	W095262J	FR22UA69V40T	10
50 A	690 V URGA	X095263J	FR22UA69V50T	10
63 A	690 V URGA	Y095264J	FR22UA69V63T	10
80 A	690 V URGA	Z095265J	FR22UA69V80T	10
100 A	600 V URGA	N098222J	FR22UA60V100T	10



Ferrule-style Protistor fuses

The most comprehensive line of ultrafast fuses **PROTISTOR®** takes the lead!

When it comes to the protection of power electronic equipment, one brand name stands alone: PROTISTOR®.

Who offers optimal, ultimate protection to lengthen the lifespan of power semiconductors?
Who combines optimized I_{2t}, reduced peak let-thru currents and high breaking capacities for ever safer installations?
Who is supported by counselling from high-level engineers and the Select-A-Fuse / Power Electronics program for right-on-target design?

Only one name comes to mind: PROTISTOR®

Ferraz Shawmut

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374, Merrimac Street, Newburyport, MA 01950 - 1998 - USA - Phone : 978-462-6662 - Fax : 978-462-0181 - www.ferrazshawmut.com

MODULO STAR®
a complete range of fuse holders and fuse disconnectors from Ferraz Shawmut

Modulostar breakthrough
a range for every kind of protection now on the shelves!

- Compatible**: Standard width for a perfect fit in enclosures
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- Connections**: Upstream comb busbar connection
- Ergonomic**: A new ergonomically designed handle for easier opening
- Flexibility**: Accessory kit for multi-pole assemblies
- Communication**: The Ferraz Shawmut indicator eye for instant blown fuse detection

Modulostar fuse holders and fuse disconnectors meet every need for ferrule-style fuses, from 8mm to 27mm in diameter. And they cover applications from low voltage power distribution in residential and office environments to protection of high power electronic devices in enclosures. Only a brand name signed by a global leader in the industry can guarantee an OEM or electrical contractor that his customer is getting top-quality components. CMS 8, 10, 14, 22, 27 and USFM models are now available on the shelves.

www.ferrazshawmut.com/Modulostar

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374, Merrimac Street, Newburyport, MA 01950 - 1998 - USA - Phone : 978-462-6662 - Fax : 978-462-0181 - www.ferrazshawmut.com

Size 000 DIN



Current (A)	Rating - Curve	Ref. number for blade-style with striker	Cat.Number for blade-style with striker	Ref. number for bracket-style with striker	Cat.Number for bracket-style with striker	Pckg
16	690 V gRB	Y210609C	PC000GB69V16PV	X330277C RU	DN000GB69V16L	3
20	690 V gRB	Z210610C	PC000GB69V20PV	J330173C RU	DN000GB69V20L	3
25	690 V gRB	A210611C	PC000GB69V25PV	K330174C RU	DN000GB69V25L	3
32	690 V gRB	B210612C	PC000GB69V32PV	L330175C RU	DN000GB69V32L	3
40	690 V gRB	C210613C	PC000GB69V40PV	M330176C RU	DN000GB69V40L	3
50	690 V gRB	D210614C	PC000GB69V50PV	N330177C RU	DN000GB69V50L	3
63	690 V gRB	E210615C	PC000GB69V63PV	P330178C RU	DN000GB69V63L	3
80	690 V gRB	F210616C	PC000GB69V80PV	Q330179C RU	DN000GB69V80L	3
100	690 V gRB	G210617C	PC000GB69V100PV	R330180C RU	DN000GB69V100L	3
125	690 V gRB	H210618C	PC000GB69V125PV	S330181C RU	DN000GB69V125L	3
16	690 V URD	P320035C	NH000UD 69V 16PV			3
20	690 V URD	R320037C	NH000UD 69V 20PV			3
25	690 V URD	T320039C	NH000UD 69V 25PV			3
32	690 V URD	Y320043C	NH000UD 69V 32PV			3
40	690 V URD	C320047C	NH000UD 69V 40PV			3
50	690 V URD	G320051C	NH000UD 69V 50PV			3
63	690 V URD	L320055C	NH000UD 69V 63PV			3
80	690 V URB	Q320059C	NH000UD 69V 80PV	T330182C	DN000UB69V80L	3
100	690 V URB	V320063C	NH000UD 69V 100PV	V330183C	DN000UB69V100L	3
125	690 V URB	X320065C	NH000UD 69V 125PV	W330184C	DN000UB69V125L	3
160	690 V URB	B320069C	NH000UD 69V 160PV	X330185C	DN000UB69V160L	3
200	690 V URB	D320071C	NH000UD 69V 200PV	Y330186C	DN000UB69V200L	3
250	690 V URB	H320075C	NH000UD 69V 250PV	Z330187C	DN000UB69V250L	3
315	690 V URB	M320079C	NH000UD 50V 315PV	A330188C	DN000UB69V315L	3
350	500 V URB			B330189C	DN000UB69V350L	3
400	500 V URB			F330193C	DN000UB69V400L	3
Neutral		Z218269J	NH00NEUTRAL	Z218269J	NH00NEUTRAL	10
Microswitch fusion fusible		F210156C	MS4L2-5B6PRES	F210156C	MS4L2-5B6PRES	3
Extractor handle		K217244A				1

Porte-fusible Size 000 DIN



Type	Ref. number Size 000	Cat.Number Size 000	Pckg
Bracket fuse holder	C220710C	SI000DN80	3
Blade fuse holder (single-pole)	R216192C	NH00BPLRL1PT0	3

Size 00 DIN

Current (A)	Rating - Curve	Ref. number for blade-style with striker	Cat. Number for blade-style with striker	Ref. number for bracket-style with striker	Cat. Number for bracket-style with striker	Pckg
16	690 V gRB	L330267C	PC00GB69V16PV	S330273C	DN00GB69V16L	3
20	690 V gRB	W330207C	PC00GB69V20PV	S330227C	DN00GB69V20L	3
25	690 V gRB	X330208C	PC00GB69V25PV	T330228C	DN00GB69V25L	3
32	690 V gRB	Y330209C	PC00GB69V32PV	V330229C	DN00GB69V32L	3
40.6	690 V gRB	Z330210C	PC00GB69V40PV	W330230C	DN00GB69V40L	3
50	690 V gRB	A330211C	PC00GB69V50PV	X330231C	DN00GB69V50L	3
63	690 V gRB	B330212C	PC00GB69V63PV	Y330232C	DN00GB69V63L	3
80	690 V gRB	C330213C	PC00GB69V80PV	Z330233C	DN00GB69V80L	3
100	690 V gRB	D330214C	PC00GB69V100PV	A330234C	DN00GB69V100L	3
125	690 V gRB	E330215C	PC00GB69V125PV	B330235C	DN00GB69V125L	3
160	690 V gRB	F330216C	PC00GB69V160PV	C330236C	DN00GB69V160L	3
16	690 V URB			V330275C	DN00UB69V16L	3
20	690 V URB	A320137C	NH00UD 69V 20PV	T330274C	DN00UB69V20L	3
25	690 V URB	C320139C	NH00UD 69V 25PV	M330268C	DN00UB69V25L	3
32	690 V URB	G320143C	NH00UD 69V 32PV	N330269C	DN00UB69V32L	3
40	690 V URB	L320147C	NH00UD 69V 40PV	P330270C	DN00UB69V40L	3
50	690 V URB	O320151C	NH00UD 69V 50PV	Q330271C	DN00UB69V50L	3
63	690 V URB	V320155C	NH00UD 69V 63PV	R330272C	DN00UB69V63L	3
80	690 V URB	Z320159C	NH00UD 69V 80PV	D330237C	DN00UB69V80L	3
100	690 V URB	D320163C	NH00UD 69V 100PV	E330238C	DN00UB69V100L	3
125	690 V URB	F320165C	NH00UD 69V 125PV	F330239C	DN00UB69V125L	3
160	690 V URB	K320169C	NH00UD 69V 160PV	G330240C	DN00UB69V160L	3
200	690 V URB	M320171C	NH00UD 69V 200PV	H330241C	DN00UB69V200L	3
250	690 V URB	R320175C	NH00UD 69V 250PV	J330242C	DN00UB69V250L	3
315	690 V URB	W320179C	NH00UD 69V 315PV	K330243C	DN00UB69V315L	3
350	690 V URB			L330244C	DN00UB69V350L	3
400	690 V URB			M330245C	DN00UB69V400L	3
Neutral		Z218269J	NH00NEUTRAL	Z218269J	NH00NEUTRAL	10
Microswitch fusion fusible		F210156C	MS4L2-5B6PRES	F210156C	MS4L2-5B6PRES	3
Extractor handle		K217244A				1



Porte-fusible Size 00 DIN

Type	Ref. number Size 000	Cat. Number Size 000	Pckg
Bracket fuse holder	Q098040C	SI00DN80	3
Blade fuse holder (single-pole)	R216192C	NH00BPLRL1PT0	3

Functions

German DIN standard 43653 (bracket-style 00C and 00, center to center 80mm).

German DIN standard 43653 (blade-style 00C and 00) Ultrafast semi-conductor protection fuses for industry, very current limiting under short circuit conditions, very low I_{2t}.

Intermediate speed between ferrule-style fuse and T30.

Bolted directly on a busbar or on a fuse holder.

Blade mounting in a fuse holder.

gRB curve fuses (class gR) clear all overloads, while URB curve fuses (class aR) require an outside device to clear

small overloads (3 In or less).

Applications

Power semi-conductor protection for soft starter, static relay, uninterrupted power supply UPS, speed regulator, rectifier, inverter, etc.



Square body Protistor fuses

Protistor

French standard size 30 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	Total I ² t at 660V	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
690	700 RA	50	610	S300373C	PC30UD69V50TF	R300372C	PC30UD69V50EF	3
690	700 RA	63	1 100	M300000C	PC30UD69V63TF	H300088C	PC30UD69V63EF	3
690	700 RA	80	1 750	S300051C	PC30UD69V80TF	J300089C	PC30UD69V80EF	3
690	700 RA	100	2 500	T300052C	PC30UD69V100TF	K300090C	PC30UD69V100EF	3
690	700 RA	125	4 500	V300053C	PC30UD69V125TF	L300091C	PC30UD69V125EF	3
690	700 RA	160	8 500	W300054C	PC30UD69V160TF	M300092C	PC30UD69V160EF	3
690	700 RA	200	15 500	X300055C	PC30UD69V200TF	N300093C	PC30UD69V200EF	3
690	700 RA	250	30 000	Y300056C	PC30UD69V250TF	P300094C	PC30UD69V250EF	3
690	700 RA	315	62 000	Z300057C	PC30UD69V315TF	Q300095C	PC30UD69V315EF	3
690	700 RA	350	80 000	A300058C	PC30UD69V350TF	R300096C	PC30UD69V350EF	3
690	700 RA	400	120 000	B300059C	PC30UD69V400TF	S300097C	PC30UD69V400EF	3
690	700 RA	450	150 000	V300398C	PC30UD69V450TF			3
690	700 RA	500	240 000	W300399C	PC30UD69V500TF			3
690	700	550	300 000	X300400C	PC30UD69V550TF			3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1
Studs HC M8 x 30 & M8 x 35				S098801F	STUM8x30M8x35			6

French standard size 31 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	Total I ² t at 660V	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
690	700	160	6 900	M300299C	PC31UD69V160TF	B301922C	PC31UD69V160EF	3
690	700	200	13 500	N300001C	PC31UD69V200TF	C300037C	PC31UD69V200EF	3
690	700	250	25 000	P300002C	PC31UD69V250TF	D300038C	PC31UD69V250EF	3
690	700	315	40 000	Q300003C	PC31UD69V315TF	A300012C	PC31UD69V315EF	3
690	700	350	55 000	M300046C	PC31UD69V350TF	N300047C	PC31UD69V350EF	3
690	700	400	100 000	R300004C	PC31UD69V400TF	F300040C	PC31UD69V400EF	3
690	700	450	140 000	S300005C	PC31UD69V450TF	G300041C	PC31UD69V450EF	3
690	700	500	195 000	T300006C	PC31UD69V500TF	H300042C	PC31UD69V500EF	3
690	700	550	280 000	V300007C	PC31UD69V550TF	J300043C	PC31UD69V550EF	3
690	700	630	390 000	W300008C	PC31UD69V630TF	K300044C	PC31UD69V630EF	3
690	700	700	490 000	X300009C	PC31UD69V700TF	L300045C	PC31UD69V700EF	3
690	700	800	800 000	Y300401C	PC31UD69V800TF			3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1
Studs HC M8 x 30 & M8 x 35				S098801F	STUM8x30M8x35			6

Functions

Ultrafast semi-conductor protection fuses for industry, very current limiting under short circuit conditions, very low I²t. A faster range than ferrule-style fuses and one with higher ratings.

Class aR fuse with a minimum interrupting rating, i.e. requiring an outside device to clear small overloads (4 I_n or less).

Square body offering different types of connection: threaded terminals for mounting on SITT base or bar, French blades for mounting on a clip support whether

elastic (sizes 30, 31, 32) or bolted (size 33), DIN 80 and 110 for bolted mounting on base or bar. DIN 43653 and NF EN 60269-1 and 4 compliant.

Breaking capacity: 110 to 200 kA at rated voltage.

Applications

Power semi-conductor protection for soft starter, static relay, uninterrupted power supply UPS, speed regulator, rectifier, inverter, etc.

Square body Protistor fuses

Protistor

French standard size 32 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	Total Pt at 660V	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
690	700	400	80 000	H300065C	PC32UD69V400TF	V300168C	PC32UD69V400EF	3
690	700	450	115 000	J300066C	PC32UD69V450TF	W300169C	PC32UD69V450EF	3
690	700	500	145 000	K300067C	PC32UD69V500TF	X300170C	PC32UD69V500EF	3
690	700	550	195 000	L300068C	PC32UD69V550TF	Y300171C	PC32UD69V550EF	3
690	700	630	280 000	M300069C	PC32UD69V630TF	Z300172C	PC32UD69V630EF	3
690	700	700	400 000	N300070C	PC32UD69V700TF	A300173C	PC32UD69V700EF	3
690	700	800	600 000	P300071C	PC32UD69V800TF	B300174C	PC32UD69V800EF	3
690	700	900	900 000	Q300072C	PC32UD69V900TF	C300175C	PC32UD69V900EF	3
690	700	1000	1 250 000	S300074C	PC32UD69V1000TF	D300176C	PC32UD69V1000EF	3
600	650	1100	1 670 000	M300759C	PC32UD60V1100TF			3
550	600	1250	2 400 000	P301060C	PC32UD55V1250TF			3
500	550	1400	3 400 000	Q301061C	PC32UD50V1400TF			3
500	550	1600	5 300 000	H300893C	PC32UD50V1600TF			3
450	500	1800		R301062C	PC32UD45V1800TF			3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1
Studs HC M10 x 30 & M10 x 50				T098802F	STUM10x30M10x50			6

French standard size 33 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	Total Pt at 660V	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
690	700	500	100 000	V300076C	PC33UD69V500TF	Z300218C	PC33UD69V500EF	3
690	700	550	140 000	W300077C	PC33UD69V550TF	A300219C	PC33UD69V550EF	3
690	700	630	210 000	X300078C	PC33UD69V630TF	B300220C	PC33UD69V630EF	3
690	700	700	300 000	Y300079C	PC33UD69V700TF	C300221C	PC33UD69V700EF	3
690	700	800	490 000	Z300080C	PC33UD69V800TF	D300222C	PC33UD69V800EF	3
690	700	900	700 000	A300081C	PC33UD69V900TF	E300223C	PC33UD69V900EF	3
690	700	1000	900 000	B300082C	PC33UD69V1000TF	F300224C	PC33UD69V1000EF	3
690	700	1100	1 260 000	C300083C	PC33UD69V1100TF	G300225C	PC33UD69V1100EF	3
690	700	1250	1 850 000	D300084C	PC33UD69V1250TF	H300226C	PC33UD69V1250EF	3
690	700	1400	2 500 000	E300085C	PC33UD69V1400TF	J300227C	PC33UD69V1400EF	3
600	650	1500	3 000 000	Y300585C	PC33UD60V1500TF			3
600	650	1600	3 300 000	Z300586C	PC33UD60V1600TF			3
600	650	1800	4 450 000	A300587C	PC33UD60V1800TF			3
550	600	2000	5 600 000	B300588C	PC33UD55V2000TF			3
500	550	2250	7 600 000	K300757C	PC33UD50V2250TF			3
450	500	2500		L300758C	PC33UD45V2500TF			3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	3
Studs HC M12 x 85 & M12 x 50				V098803F	STUM10x30M10x50			6

Porte-fusibles Corps carrés

Porte-fusibles	Ref. number threaded terminals 450 to 660 V AC	Cat.Number threaded terminals 450 to 660 V AC	Ref. number couteaux 660 V AC	Cat.Number couteaux 660 V AC	Pckg
Size 30	B301232A	SITT30/31	T096939A	SP30	1
Size 31	B301232A	SITT30/31	J098701A	SE31	1
Size 32	D301234A	SITT32/33	K098702A	SE32	1
Size 33	D301234A	SITT32/33	B209186A	SF50-33	1



Square body Protistor fuses

Protistor

German standard size 30 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	l _{ft} total to 660V	Ref. number Din 80	Cat Number Din 80	Ref. number Din 110	Cat Number Din 110	Pckg
690	700	50	610	F301926C	PC30UD69V50A	G301191C	PC30UD69V50D1A	3
690	700	63	1 100	E300108C	PC30UD69V63A	Q300118C	PC30UD69V63D1A	3
690	700	80	1 750	F300109C	PC30UD69V80A	R300119C	PC30UD69V80D1A	3
690	700	100	2 500	G300110C	PC30UD69V100A	S300120C	PC30UD69V100D1A	3
690	700	125	4 500	H300111C	PC30UD69V125A	T300121C	PC30UD69V125D1A	3
690	700	160	8 500	J300112C	PC30UD69V160A	V300122C	PC30UD69V160D1A	3
690	700	200	15 500	K300113C	PC30UD69V200A	W300123C	PC30UD69V200D1A	3
690	700	250	30 000	L300114C	PC30UD69V250A	X300124C	PC30UD69V250D1A	3
690	700	315	62 000	M300115C	PC30UD69V315A	Y300125C	PC30UD69V315D1A	3
690	700	350	80 000	N300116C	PC30UD69V350A	Z300126C	PC30UD69V350D1A	3
690	700	400	120 000	P300117C	PC30UD69V400A	A300127C	PC30UD69V400D1A	3
690	700	450	150 000	A300403C	PC30UD69V450A	S300695C	PC30UD69V450D1A	3
690	700	500	240 000	B300404C	PC30UD69V500A	Y301091C	PC30UD69V500D1A	3
690	700	550	300 000	C300405C	PC30UD69V550A	Z301092C	PC30UD69V550D1A	3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1

German standard size 31 - URD



Voltage IEC (V)	Voltage USA (V)	Current (A)	l _{ft} total to 660V	Ref. number Din 80	Cat Number Din 80	Ref. number Din 110	Cat Number Din 110	Pckg
690	700	160	6 900	M300322C	PC31UD69V160A	N300323C	PC31UD69V160D1A	3
690	700	200	13 500	Y300010C	PC31UD69V200A	H300019C	PC31UD69V200D1A	3
690	700	250	25 000	Z300011C	PC31UD69V250A	J300020C	PC31UD69V250D1A	3
690	700	315	40 000	A300012C	PC31UD69V315A	K300021C	PC31UD69V315D1A	3
690	700	350	55 000	Q300049C	PC31UD69V350A	P300048C	PC31UD69V350D1A	3
690	700	400	100 000	B300013C	PC31UD69V400A	L300022C	PC31UD69V400D1A	3
690	700	450	140 000	C300014C	PC31UD69V450A	M300023C	PC31UD69V450D1A	3
690	700	500	195 000	D300015C	PC31UD69V500A	N300024C	PC31UD69V500D1A	3
690	700	550	280 000	E300016C	PC31UD69V550A	P200025C	PC31UD69V550D1A	3
690	700	630	390 000	F300017C	PC31UD69V630A	Q300026C	PC31UD69V630D1A	3
690	700	700	490 000	G300018C	PC31UD69V700A	R300027C	PC31UD69V700D1A	3
690	700	800	800 000	D300406C	PC31UD69V800A	H300709C	PC31UD69V800D1A	3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1

Functions

Ultrafast semi-conductor protection fuses for industry, very current limiting under short circuit conditions, very low I₂t. A faster range than ferrule-style fuses and one with higher ratings.

Class aR fuse with a minimum interrupting rating, i.e. requiring an outside device to clear small overloads (4 In or less).

Square body offering different types of connection: threaded terminals for mounting on SITT base or bar, French blades for mounting on a clip support whether

elastic (sizes 30, 31, 32) or bolted (size 33), DIN 80 and 110 for bolted mounting on base or bar. DIN 43653 and NF EN 60269-1 and 4 compliant. Breaking capacity: 110 to 200 kA at rated voltage.

Applications

Power semi-conductor protection for soft starter, static relay, uninterrupted power supply UPS, speed regulator, rectifier, inverter, etc.



Square body Protistor fuses

Protistor

German standard size 32



Voltage IEC (V)	Voltage USA (V)	Current (A)	I ^t total to 660V	Ref. number Din 80	Cat Number Din 80	Ref. number Din 110	Cat Number Din 110	Pckg
690	700	400	80 000	E300177C	PC32UD69V400A	P300186C	PC32UD69V400D1A	3
690	700	450	115 000	F300178C	PC32UD69V450A	Q300187C	PC32UD69V450D1A	3
690	700	500	145 000	G300179C	PC32UD69V500A	R300188C	PC32UD69V500D1A	3
690	700	550	195 000	H300180C	PC32UD69V550A	S300189C	PC32UD69V550D1A	3
690	700	630	280 000	J300181C	PC32UD69V630A	T300190C	PC32UD69V630D1A	3
690	700	700	400 000	K300182C	PC32UD69V700A	V300191C	PC32UD69V700D1A	3
690	700	800	600 000	L300183C	PC32UD69V800A	W300192C	PC32UD69V800D1A	3
690	700	900	900 000	M300184C	PC32UD69V900A	X300193C	PC32UD69V900D1A	3
690	700	1000	1 250 000	N300185C	PC32UD69V1000A	Y300194C	PC32UD69V10CD1A	3
600	650	1100	1 670 000	W302101	PC32UD60V1100A	W302101C	PC32UD60V1100A	3
550	600	1250	2 400 000	G300409	PC32UD50V1250A	G300409C	PC32UD50V1250A	3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	1

German standard size 33



Voltage IEC (V)	Voltage USA (V)	Current (A)	I ^t total to 660V	Ref. number Din 80	Cat Number Din 80	Ref. number Din 110	Cat Number Din 110	Pckg
690	700	500	100 000	G300248C	PC33UD69V500A	S300258C	PC33UD69V500D1A	3
690	700	550	140 000	H300249C	PC33UD69V550A	T300259C	PC33UD69V550D1A	3
690	700	630	210 000	J300250C	PC33UD69V630A	V300260C	PC33UD69V630D1A	3
690	700	700	300 000	K300251C	PC33UD69V700A	W300261C	PC33UD69V700D1A	3
690	700	800	490 000	L300252C	PC33UD69V800A	X300262C	PC33UD69V800D1A	3
690	700	900	700 000	M300253C	PC33UD69V900A	Y300263C	PC33UD69V900D1A	3
690	700	1000	900 000	N300254C	PC33UD69V1000A	Z300264C	PC33UD69V10CD1A	3
690	700	1100	1 260 000	P300255C	PC33UD69V1100A	A300265C	PC33UD69V11CD1A	3
690	700	1250	1 850 000	Q300256C	PC33UD69V1250A	B300266C	PC33UD69V12CD1A	3
690	700	1400	2 500 000	R300257C	PC33UD69V1400A	C300267C	PC33UD69V14CD1A	3
600	650	1600	3 300 000	X301803C	PC33UD60V1600A	Z301437C	PC33UD60V16CD1A	3
Microswitch				X310014A	MS3 V1-5	X310014A	MS3 V1-5	3

Square body fuse holder

Fuse holder	Ref. number 500 to 600 V DIN 80	Cat.Number 500 to 600 V DIN 80	Ref. number 500 to 600 V DIN 110	Cat.Number 500 to 600 V DIN 110	Pckg
Size 30	L098772A	SIDN80630A	F098031A	SIDN110630A	1
Size 31	L098772A	SIDN80630A	F098031A	SIDN110630A	1
Size 32	L098772A⁽¹⁾	SIDN80630A	F098031A⁽¹⁾	SIDN110630A	1
Size 32	F098560A ⁽²⁾	SIDN801250A	L091941A ⁽²⁾	SIDN1101250A	1
Size 33	L098772A ⁽¹⁾	SIDN80630A	F098031A ⁽¹⁾	SIDN110630A	1
Size 33	F098560A ⁽²⁾	SIDN801250A	L091941A ⁽²⁾	SIDN1101250A	1



(1) for ratings < 1250A
(2) for ratings > 1250A

Square body Protistor fuses



Square body Protistor fuses

Protistor



French standard size 70 - gRB

Current (A)	Voltage - Courbe	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
50	690 V gRB	C301279C	PC70GB69V50TF	P301405C	PC70GB69V50EF	3
63	690 V gRB	D301280C	PC70GB69V63TF	Q301406C	PC70GB69V63EF	3
80	690 V gRB	E301281C	PC70GB69V80TF	R301407C	PC70GB69V80EF	3
100	690 V gRB	F301282C	PC70GB69V100TF	S301408C	PC70GB69V100EF	3
125	690 V gRB	G301283C	PC70GB69V125TF	T301409C	PC70GB69V125EF	3
160	690 V gRB	L301310C	PC70GB69V160TF	V301410C	PC70GB69V160EF	3
200	690 V gRB	M301311C	PC70GB69V200TF		PC70GB69V200EF	3
250	690 V gRB	N301312C	PC70GB69V250TF		PC70GB69V250EF	3
315	690 V gRB	P301313C	PC70GB69V315TF		PC70GB69V315EF	3

French standard size 71 - gRB

Current (A)	Voltage - Courbe	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
125	690 V gRB	Q301314C	PC71GB69V125TF	Y301321C	PC71GB69V125EF	3
160	690 V gRB	R301315C	PC71GB69V160TF	Z301322C	PC71GB69V160EF	3
200	690 V gRB	S301316C	PC71GB69V200TF	A301323C	PC71GB69V200EF	3
250	690 V gRB	T301317C	PC71GB69V250TF	B301324C	PC71GB69V250EF	3
315	690 V gRB	N301427C	PC71GB69V315TF		PC71GB69V315EF	3
350	690 V gRB	V301318C	PC71GB69V350TF	C301325C	PC71GB69V350EF	3
400	690 V gRB	W301319C	PC71GB69V400TF	D301326C	PC71GB69V400EF	3
450	690 V gRB	X301320C	PC71GB69V450TF	E301327C	PC71GB69V450EF	3
500	690 V gRB	S301707C	PC71GB69V500TF	G301858C	PC71GB69V500EF	3

French standard size 72 - gRB

Current (A)	Voltage - Courbe	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
200	690 V gRB	F301328A	PC72GB69V200TF	N301335A	PC72GB69V200EF	1
250	690 V gRB	G301329A	PC72GB69V250TF	P301336A	PC72GB69V250EF	1
315	690 V gRB	H301330A	PC72GB69V315TF	Q301337A	PC72GB69V315EF	1
350	690 V gRB	W301710A	PC72GB69V350TF		PC72GB69V350EF	1
400	690 V gRB	J301331A	PC72GB69V400TF	R301338A	PC72GB69V400EF	1
450	690 V gRB	X301711A	PC72GB69V450TF		PC72GB69V450EF	1
500	690 V gRB	K301332A	PC72GB69V500TF	S301339A	PC72GB69V500EF	1
550	690 V gRB	L301333A	PC72GB69V550TF	T301340A	PC72GB69V550EF	1
630	690 V gRB	M301334A	PC72GB69V630TF	V301341A	PC72GB69V630EF	1
700	690 V gRB	Y301712A	PC72GB69V700TF			1

French standard size 73 - gRB

Current (A)	Voltage - Courbe	Ref. number threaded terminals	Cat Number threaded terminals	Ref. number for blade-style	Cat Number for blade-style	Pckg
315	690 V gRB	W301342A	PC73GB69V315TF	C301348A	PC73GB69V315EF	1
350	690 V gRB	B301715A	PC73GB69V350TF		PC73GB69V350EF	1
400	690 V gRB	X301343A	PC73GB69V400TF	D301349A	PC73GB69V400EF	1
450	690 V gRB	Y301344A	PC73GB69V450TF	E301350A	PC73GB69V450EF	1
500	690 V gRB	C301716A	PC73GB69V500TF		PC73GB69V500EF	1
550	690 V gRB	Z301345A	PC73GB69V550TF	F301351A	PC73GB69V550EF	1
630	690 V gRB	A301346A	PC73GB69V630TF	G301352A	PC73GB69V630EF	1
700	690 V gRB	B301347A	PC73GB69V700TF	H301353A	PC73GB69V700EF	1
800	690 V gRB	D301717A	PC73GB69V800TF		PC73GB69V800EF	1
900	690 V gRB	S301638A	PC73GB69V900TF		PC73GB69V900EF	1
1000	690 V gRB	F301719A	PC73GB69V100TF			1

Square body Protistor fuses



Square body Protistor fuses



Protistor

German standard size 70 - gRB

Current (A)	Voltage - Courbe	Ref. number couteaux DIN 110	Cat Number couteaux DIN 110	Ref. number couteaux pleins	Cat Number couteaux pleins	Pckg
50	690 V gRB		PC70GB69V50D1A	Q301245C	PC70GB69V50PA	3
63	690 V gRB		PC70GB69V63D1A	R301246C	PC70GB69V63PA	3
80	690 V gRB		PC70GB69V80D1A	S301247C	PC70GB69V80PA	3
100	690 V gRB	Q302027C	PC70GB69V100D1A	T301248C	PC70GB69V100PA	3
125	690 V gRB		PC70GB69V125D1A	T301179C	PC70GB69V125PA	3
160	690 V gRB	R301591C	PC70GB69V160D1A	F301190C	PC70GB69V160PA	3
200	690 V gRB	S301592C	PC70GB69V200D1A	S301178C	PC70GB69V200PA	3
250	690 V gRB	Z301943C	PC70GB69V250D1A	V301249C	PC70GB69V250PA	3
315	690 V gRB	J301584C	PC70GB69V315D1A	W301250C	PC70GB69V315PA	3
315	690 V gRB	W302124C	PC70GB69V350D1A	X301251C	PC70GB69V350PA	3

German standard size 71 - gRB

Current (A)	Voltage - Courbe	Ref. number couteaux DIN 110	Cat Number couteaux DIN 110	Ref. number couteaux pleins	Cat Number couteaux pleins	Pckg
125	690 V gRB	B302658C	PC71GB69V125D1A	Y301252C	PC71GB69V125PA	3
160	690 V gRB	C302659C	PC71GB69V160D1A	Z301253C	PC71GB69V160PA	3
200	690 V gRB	C302682C	PC71GB69V200D1A	A301254C	PC71GB69V200PA	3
250	690 V gRB	R302143C	PC71GB69V250D1A	B301255C	PC71GB69V250PA	3
315	690 V gRB		PC71GB69V315D1A	R301177C	PC71GB69V315PA	3
350	690 V gRB	T302214C	PC71GB69V350D1A	E301258C	PC71GB69V350PA	3
400	690 V gRB		PC71GB69V400D1A	V301226C	PC71GB69V400PA	3
450	690 V gRB	R301637C	PC71GB69V450D1A	C301256C	PC71GB69V450PA	3
500	690 V gRB	A301737C	PC71GB69V500D1A	D301257C	PC71GB69V500PA	3

German standard size 72 - gRB

Current (A)	Voltage - Courbe	Ref. number couteaux DIN 110	Cat Number couteaux DIN 110	Ref. number couteaux pleins	Cat Number couteaux pleins	Pckg
200	690 V gRB		PC72GB69V200D1A	F301259A	PC72GB69V200PA	1
250	690 V gRB	T302697A	PC72GB69V250D1A	G301260A	PC72GB69V250PA	1
315	690 V gRB	V302698A	PC72GB69V315D1A	H301261A	PC72GB69V315PA	1
350	690 V gRB	E302500A	PC72GB69V350D1A	J301262A	PC72GB69V350PA	1
400	690 V gRB	V302215A	PC72GB69V400D1A	K301263A	PC72GB69V400PA	1
450	690 V gRB	Q302671A	PC72GB69V450D1A	L301264A	PC72GB69V450PA	1
500	690 V gRB		PC72GB69V500D1A	M301265A	PC72GB69V500PA	1
550	690 V gRB	L301724A	PC72GB69V550D1A	N301266A	PC72GB69V550PA	1
630	690 V gRB		PC72GB69V630D1A	P301267A	PC72GB69V630PA	1
700	690 V gRB		PC72GB69V700D1A	Q301268A	PC72GB69V700PA	1

German standard size 73 - gRB

Current (A)	Rating - Curve	Ref. number couteaux DIN 110	Cat Number couteaux DIN 110	Ref. number couteaux pleins	Cat Number couteaux pleins	Pckg
315	690 V gRB		PC73GB69V315D1A	R301269A	PC73GB69V315PA	1
350	690 V gRB		PC73GB69V350D1A	S301270A	PC73GB69V350PA	1
400	690 V gRB		PC73GB69V400D1A	T301271A	PC73GB69V400PA	1
450	690 V gRB		PC73GB69V450D1A	V301272A	PC73GB69V450PA	1
500	690 V gRB	W302216A	PC73GB69V500D1A	W301273A	PC73GB69V500PA	1
550	690 V gRB	R302672A	PC73GB69V550D1A	N301404A	PC73GB69V550PA	1
630	690 V gRB		PC73GB69V630D1A	X301274A	PC73GB69V630PA	1
700	690 V gRB	F301765A	PC73GB69V700D1A	Y301275A	PC73GB69V700PA	1
800	690 V gRB		PC73GB69V800D1A	Z301276A	PC73GB69V800PA	1
900	690 V gRB		PC73GB69V900D1A	A301277A	PC73GB69V900PA	1
1000	690 V gRB	S302673A	PC73GB69V10CD1A	B301278A	PC73GB69V1000PA	1



Protistor DIN blade-style fuses

Protistor

Size 0 - URD



Current (A)	Rating - Curve	Ref. number with striker	Cat. Number with striker	Pckg
32	690 V URD	Q320243C	NH0UD 69V 32PV	3
40	690 V URD	V320247C	NH0UD 69V 40PV	3
50	690 V URD	Z320251C	NH0UD 69V 50PV	3
63	690 V URD	D320255C	NH0UD 69V 63PV	3
80	690 V URD	H320259C	NH0UD 69V 80PV	3
100	690 V URD	M320263C	NH0UD 69V 100PV	3
125	690 V URD	P320265C	NH0UD 69V 125PV	3
160	690 V URD	T320269C	NH0UD 69V 160PV	3
200	690 V URD	W320271C	NH0UD 69V 200PV	3
250	690 V URD	A320275C	NH0UD 69V 250PV	3
315	690 V URD	E320279C	NH0UD 69V 315PV	3
Barrette de Neutral		Z219304J	NH0NEUTRAL	10
Extractor handle		P215592A	NH HANDLE	1
Microswitch		F210156C	MS 4L2-5B6PRES	1

Size 1 - URD



Current (A)	Rating - Curve	Ref. number with striker	Cat. Number with striker	Pckg
63	690 V URD	M320355C	NH1UD 69V 63PV	3
80	690 V URD	K320399C	NH1UD 69V 80PV	3
100	690 V URD	W320363C	NH1UD 69V 100PV	3
125	690 V URD	Y320365C	NH1UD 69V 125PV	3
160	690 V URD	C320369C	NH1UD 69V 160PV	3
200	690 V URD	E320371C	NH1UD 69V 200PV	3
250	690 V URD	J320375C	NH1UD 69V 250PV	3
315	690 V URD	N320379C	NH1UD 69V 315PV	3
350	690 V URD	P320380C	NH1UD 69V 350PV	3
400	690 V URD	S320383C	NH1UD 69V 400PV	3
Barrette de Neutral		A219834E		5
Extractor handle		P215592A	NH HANDLE	1
Microswitch		F210156C	MS 4L2-5B6PRES	1

Size 2 - URD



Current (A)	Rating - Curve	Ref. number with striker	Cat. Number with striker	Pckg
160	690 V URD	L320469C	NH2UD 69V 160PV	3
200	690 V URD	N320471C	NH2UD 69V 200PV	3
250	690 V URD	S320475C	NH2UD 69V 250PV	3
315	690 V URD	X320479C	NH2UD 69V 315PV	3
350	690 V URD	Y320480C	NH2UD 69V 350PV	3
400	690 V URD	B320483C	NH2UD 69V 400PV	3
450	690 V URD	D320485C	NH2UD 69V 450PV	3
500	690 V URD	F320487C	NH2UD 69V 500PV	3
550	690 V URD	G320488C	NH2UD 69V 550PV	3
630	690 V URD	H320489C	NH2UD 69V 630PV	3
700	690 V URD	J320490C	NH2UD 69V 700PV	3
Barrette de Neutral		N222514E		5
Extractor handle		P215592A	NH HANDLE	1
Microswitch		F210156C	MS 4L2-5B6PRES	1

Protistor DIN blade-style fuses

Size 3 - URD

Current (A)	Rating - Curve	Ref. number with striker	Cat.Number with striker	Pckg
315	690 V URD	F320579C	NH3UD 69V 315PV	3
350	690 V URD	G320580C	NH3UD 69V 350PV	3
400	690 V URD	K320583C	NH3UD 69V 400PV	3
500	690 V URD	P320587C	NH3UD 69V 500PV	3
550	690 V URD	Q320588C	NH3UD 69V 550PV	3
630	690 V URD	R320589C	NH3UD 69V 630PV	3
700	690 V URD	S320590C	NH3UD 69V 700PV	3
800	690 V URD	T320591C	NH3UD 69V 800PV	3
900	690 V URD	V320592C	NH3UD 69V 900PV	3
1000	690 V URD	W320593C	NH3UD 69V 1000PV	3
Barrette de Neutral		E223035E		5
Extractor handle		P215592A	NHHANDLE	1
Microswitch		F210156C	MS 4L2-5B6PRES	1



Extractor handle

Functions

German standard 43620 on dimensions.
Ultrafast semi-conductor protection fuses for industry, very current limiting under short circuit conditions. Very low I²t.
Class aR fuses with a minimum interrupting rating, i.e. requiring an outside device to clear small overloads (4 In or less).
NF EN 60269-1 and -4 compliant.

Can be installed in Ferraz Shawmut's ITCP-type fuse switches (see catalog The Advisor).

Applications

Power semi-conductor protection for soft starter, static relay, uninterrupted power supply UPS, speed regulator, rectifier, inverter, etc.



Porte-fusibles Couteaux DIN

Number of pole	Ref. number size 0	Cat.Number size 0	Ref. number size 1	Cat.Number size 1	Ref. number size 2	Cat.Number size 2	Ref. number size 3	Cat.Number size 3	Pckg
Fuse holder ⁽¹⁾									
1 -pole	S216193C	EP01R	A223008C	PP11R	E211075C	PP21R	X213644C	PP31R	3
2 pole	P216696B	EP02R	G200796B	PP12R	V211595B	PP22R	B214154B	PP32R	2
3 pole	C217214A	EP03R	Y201340A	PP13R	D212109A	PP23R	F214664A	PP33R	1
4 pole	J217726A	EP04R	H201855A	PP14R	R212627A	PP24R	K215174A	PP34R	1
Partition	Z213669B	NHOWALL	J214690B	NH1NH2WALL	J214690B	NH1NH2WALL	O215708B	NH3WALL	2
IP 2X (finger safe) fuse holder ⁽¹⁾									
1 -pole	G226717C	EP01RIP20	P226724C	PP11FSR	R226726C	PP21FSR	T226728C	PP31RIP20	3
3 pole	J226719A	EP03RIP20	Q226725A	PP13RIP20	S226727A	PP23FSR	V226729A	PP33RIP20	1

(1) DIN rail or screw mounting



Size 10 x 28 250 V w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
5	250 V URE	M082489J	BS10UE25V5	10
6	250 V URE	E097478J	BS10UE25V6	10
10	250 V URE	L082488J	BS10UE25V10	10
12	250 V URE	P097487J	BS10UE25V12	10
15	250 V URE	K082487J	BS10UE25V15	10
20	250 V URE	J082486J	BS10UE25V20	10
25	250 V URE	X097494J	BS10UE25V25	10
32	250 V URE	N081984J	BS10UE25V32	10

Size 17 x 27 250 V w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
7	250 V URGS	M076647J	BS17US25V7	10
10	250 V URGS	N076648J	BS17US25V10	10
12	250 V URGS	P076649J	BS17US25V12	10
16	250 V URGS	Q076650J	BS17US25V16	10
20	250 V URGS	L097507J	BS17US25V20	10
25	250 V URGS	R076651J	BS17US25V25	10
30	250 V URGS	S076652J	BS17US25V30	10
35	250 V URGS	T076653J	BS17US25V35	10
50	250 V URGS	V076654J	BS17US25V50	10
60	250 V URGS	W076655J	BS17US25V60	10
75	250 V URGS	X076656J	BS17US25V75	10
80	250 V URGS	Z085559	BS17US25V80	10
100	250V V URZ	Y085558J	BS17UZ25V100	10
125	250V V URZ	G097526J	BS17UZ25V125	10
150	250V V URZ	W085556J	BS17UZ25V150	10
160	250V V URZ	H097527J	BS17UZ25V160	10
180	250V V URZ	N097532J	BS17UZ25V180	10

Size 17 x 27 250 V with striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
7	250 V URGS	P097533J	BS17US25V7P	10
10	250 V URGS	Q097534J	BS17US25V10P	10
12	250 V URGS	S097536J	BS17US25V12P	10
16	250 V URGS	X097540J	BS17US25V16P	10
20	250 V URGS	B097544J	BS17US25V20P	10
25	250 V URGS	D097546J	BS17US25V25P	10
30	250 V URGS	E097547J	BS17US25V30P	10
35	250 V URGS	F097548J	BS17US25V35P	10
50	250 V URGS	J097551J	BS17US25V50P	10
60	250 V URGS	H081082J	BS17US25V60P	10
75	250 V URGS	K097552J	BS17US25V75P	10
80	250 V URGS	L097553J	BS17US25V80P	10
100	250V V URZ	P097556J	BS17UZ25V100P	10
125	250V V URZ	Q097557J	BS17UZ25V125P	10
150	250V V URZ	R097558J	BS17UZ25V150P	10
160	250V V URZ	S097559J	BS17UZ25V160P	10
180	250V V URZ	T097560J	BS17UZ25V180P	10

Size 36 x 27 250 V w/o striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
50	250 V URGG	J080945C	BS36UG25V50	3
75	250 V URGG	K080946C	BS36UG25V75	3
100	250 V URGG	L080947C	BS36UG25V100	3
125	250 V URGG	R082470C	BS36UG25V125	3
150	250 V URGG	Q082469C	BS36UG25V150	3
200	250 V URGG	P082468C	BS36UG25V200	3
250	250 V URGG	N082467C	BS36UG25V250	3
300	250 V URGG	M082466C	BS36UG25V300	3
350	250 V URGG	L082465C	BS36UG25V350	3
400	250 V URGG	G075538C	BS36UG25V400	3
450	250 V URGG	H075539C	BS36UG25V450	3
500	250 V URGG	J075540C	BS36UG25V500	3
525	250 V URGG	K075541C	BS36UG25V525	3



Size 36 x 27 250 V with striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
50	250 V URGG	F080942C	BS36UG25V50T	3
75	250 V URGG	G080943C	BS36UG25V75T	3
100	250 V URGG	H080944C	BS36UG25V100T	3
125	250 V URGG	W082382C	BS36UG25V125T	3
150	250 V URGG	V082381C	BS36UG25V150T	3
200	250 V URGG	T082380C	BS36UG25V200T	3
250	250 V URGG	S082379C	BS36UG25V250T	3
300	250 V URGG	R082378C	BS36UG25V300T	3
350	250 V URGG	Q082377C	BS36UG25V350T	3
400	250 V URGG	L075542C	BS36UG25V400T	3
450	250 V URGG	M075543C	BS36UG25V450T	3
500	250 V URGG	N075544C	BS36UG25V500T	3
525	250 V URGG	P075545C	BS36UG25V525T	3



Size 2 x 36 x 27 250 V w/o striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
300	250 V URGH	K082464C	BS236UH25V300	3
350	250 V URGH	J082463C	BS236UH25V350	3
400	250 V URGH	H082462C	BS236UH25V400	3
500	250 V URGH	G082461C	BS236UH25V500	3
600	250 V URGH	F082460C	BS236UH25V600	3
700	250 V URGH	E082459C	BS236UH25V700	3
800	250 V URGH	Q075546C	BS236UH25V800	3
900	250 V URGH	R075547C	BS236UH25V900	3
1000	250 V URGH	S075548C	BS236UH25V1000	3
1050	250 V URGH	T075549C	BS236UH25V1050	3



Size 2 x 36 x 27 250 V w/o striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
300	250 V URGH	P082376C	BS236UH25V300T	3
350	250 V URGH	N082375C	BS236UH25V350T	3
400	250 V URGH	M082374C	BS236UH25V400T	3
500	250 V URGH	L082373C	BS236UH25V500T	3
600	250 V URGH	K082372C	BS236UH25V600T	3
700	250 V URGH	J082371C	BS236UH25V700T	3
800	250 V URGH	V075550C	BS236UH25V800T	3
900	250 V URGH	R075501C	BS236UH25V900T	3
1000	250 V URGH	S075502C	BS236UH25V1000T	3
1050	250 V URGH	T075503C	BS236UH25V1050T	3



Size 17 x 49 690 V w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
16	690 V URS	G075883C	BS17US69V16	3
20	690 V URS	H075884C	BS17US69V20	3
25	690 V URS	J075885C	BS17US69V25	3
32	690 V URS	K075886C	BS17US69V32	3
35	690 V URS	L075887C	BS17US69V35	3
40	690 V URS	M075888C	BS17US69V40	3
45	690 V URS	N075889C	BS17US69V45	3
50	690 V URS	P075890C	BS17US69V50	3
55	690 V URS	Q075891C	BS17US69V55	3
63	690 V URS	R075892C	BS17US69V63	3
75	690 V URS	S075893C	BS17US69V75	3
80	690 V URS	T075894C	BS17US69V80	3

Size 2 x 17 x 49 690 V w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
65	690 V URT	G075906E	BS217UT69V65	5
75	690 V URT	F099572E	BS217UT69V75	5
85	690 V URT	H075907E	BS217UT69V85	5
90	690 V URT	A099958E	BS217UT69V90	5
110	690 V URT	B099959E	BS217UT69V110	5
140	690 V URT	J075908E	BS217UT69V140	5
150	690 V URT	C099960E	BS217UT69V150	5
160	690 V URT	K075909E	BS217UT69V160	5

Size 000 690 V w/o striker



Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
20	690 V gRB	T330044C	BS000GB69V20	3
25	690 V gRB	V330045C	BS000GB69V25	3
32	690 V gRB	W330046C	BS000GB69V32	3
40	690 V gRB	X330047C	BS000GB69V40	3
50	690 V gRB	Z330049C	BS000GB69V50	3
63	690 V gRB	A330050C	BS000GB69V63	3
80	690 V gRB	N330108C	BS000GB69V80	3
100	690 V gRB	H330103C	BS000GB69V100	3
125	690 V gRB	P330109C	BS000GB69V125	3
75	690 V URB	B330051C	BS000UB69V75	3
80	690 V URB	C330052C	BS000UB69V80	3
100	690 V URB	D330053C	BS000UB69V100	3
110	690 V URB	E330100C	BS000UB69V110	3
125	690 V URB	E330054C	BS000UB69V125	3
150	690 V URB	F330101C	BS000UB69V150	3
160	690 V URB	F330055C	BS000UB69V160	3
200	690 V URB	G330056C	BS000UB69V200	3
250	690 V URB	H330057C	BS000UB69V250	3
315	690 V URB	J330058C	BS000UB69V315	3
350	500 V URB	X330116C	BS000UB50V350	3
400	500 V URB	G330194C	BS000UB50V400	3

Size 000 BS88Z 690 V with striker

Current (A)	Rating - Curve	Ref. number	Cat.Number	Pckg
50	690 V gRB	V330137C	BZ000GB69V50	3
65	690 V gRB	W330138C	BZ000GB69V65	3
75	690V URC	X330139C	BZ000UC69V75	3
85	690V URC	Y330140C	BZ000UC69V85	3
90	660V URC	Z330141C	BZ000UC69V90	3
110	690V URC	A330142C	BZ000UC69V110	3
150	690V URC	B330143C	BZ000UC69V150	3
180	690V URC	C330144C	BZ000UC69V180	3
200	690V URD	D330145C	BZ000UD69V200	3
250	690V URD	E330146C	BZ000UD69V250	3
280	660V URC	F330147C	BZ000UC69V280	3
175	690 V URC	P330155C	BZ2000UC69V175	3
200	690 V URC	Q330156C	BZ2000UC69V200	3
235	690 V URC	R330157C	BZ2000UC69V235	3
300	690 V URC	S330158C	BZ2000UC69V300	3
325	690 V URC	T330159C	BZ2000UC69V325	3
355	690 V URC	V330160C	BZ2000UC69V355	3
400	690 V URD	W330161C	BZ2000UD69V400	3
450	690 V URC	X330162C	BZ2000UC69V450	3
500	690 V URD	Y330163C	BZ2000UD69V500	3



Functions

British Standard BS. Ultrafast semi-conductor protection fuses for industry, very current limiting under short circuit conditions, very low I₂t.
gRB fuse capable of clearing all overloads (gR). Class URB fuse with a minimum interrupting rating, i.e. requiring an outside device to clear small overloads (3 I_n or less). Bolted directly on a busbar or insulator.

Breaking capacity: 660 V - 200 kA
250 V - 100 kA and 160 kA
NF EN 20691 and BS EN 60269-4 compliant

Applications

Power semi-conductor protection for soft starter, static relay, uninterrupted power supply UPS, speed regulator, rectifier, inverter, etc.



gR - NEOZED



Size	Current (A)	Voltage	Ref. number	Cat.Number	Pckg
D01	2	440 V	M215038P	D01GR44V2	50
D01	4	440 V	N218673P	D01GR44V4	50
D01	6	440 V	B219191P	D01GR44V6	50
D01	10	440 V	F219724P	D01GR44V10	50
D01	16	440 V	N222169P	D01GR44V16	50
D02	20	440 V	H222923M	D02GR44V20	25
D02	25	440 V	R200713M	D02GR44V25	25
D02	35	440 V	F201255M	D02GR44V35	25
D02	50	440 V	R201771M	D02GR44V50	25
D02	63	440 V	Y207113M	D02GR44V63	25
D03	80	440 V	G211514J	D03GR44V80	10
D03	100	440 V	L212024J	D03GR44V100	10

gR - NEOZED



Size	Current (A)	Voltage	Ref. number	Cat.Number	Pckg
DII	2	500 V AC / 400 V DC	Z212542E	DIIGR50V2	5
DII	4	500 V AC / 400 V DC	K213058E	DIIGR50V4	5
DII	6	500 V AC / 400 V DC	E214065E	DIIGR50V6	5
DII	10	500 V AC / 400 V DC	M214578E	DIIGR50V10	5
DII	16	500 V AC / 400 V DC	T215090E	DIIGR50V16	5
DII	20	500 V AC / 400 V DC	T215596E	DIIGR50V20	5
DII	25	500 V AC / 400 V DC	B216109E	DIIGR50V25	5
DII	30	500 V AC / 400 V DC	Y216612E	DIIGR50V30	5
DIII	35	500 V AC / 400 V DC	K217129E	DIIGR50V35	5
DIII	50	500 V AC / 400 V DC	Q217640E	DIIGR50V50	5
DIII	63	500 V AC / 400 V DC	Y218153E	DIIGR50V63	5
DIV	80	500 V AC / 400 V DC	B201251E	DIVGR50V80	5
DIV	100	500 V AC / 400 V DC	M201767E	DIVGR50V100	5
DV	125	500 V AC / 400 V DC	J207054E	DIVGR50V125	5
DV	160	500 V AC / 400 V DC	C211510E	DIVGR50V160	5
DV	200	500 V AC / 400 V DC	G212020E	DIVGR50V200	5

Functions

Semi-conductor protection fuses for industry, dimensions D and D0. German standard DIN compliant. NF EN 60269 and -14 compliant.

Applications

Protection for small semi-conductor equipment (current regulator, static relay, etc.)







IP20 finger safe fuse holder

Protistor

Finger safe to IP20 standard carriers for PSC 000, 00, 3x and 7x fuses

Fuse bases IP20	Rated insulation voltage Ui (AC 50/60 Hz & DC)	Current	Dielectric strength test		Flame/ smoke rating
			AC voltage 1mn 50/60 Hz	Impulse voltage 1,2/50 µs	
SI TT 30/31	1500 V	1000 A	10 kV	12 kV	UL 94 VO II F1 (NF 16102)
SI TT 70/71	1500 V	1000 A	10 kV	12 kV	
SI TT 32/33	1500 V	2500 A	10 kV	12 kV	
SI TT 72/73	1500 V	2500 A	10 kV	12 kV	
SI 000 DIN 80	700 V	400 A	7 kV	8 kV	UL 94 VO UL 94 VO-3F3 (NF16102)
SI 00 DIN 80	700 V	400 A	8 kV	12 kV	
SI DIN 80/630 (30 TO 33)	1500 V	2500 A	10 kV	12 kV	II F1 (NF 16102) UL 94 VO
SI DIN 110/630 (30 TO 33-70 TO 73)	1500 V	2500 A	10 kV	12 kV	

Reference numbers – Catalog numbers

Size	No microswitch can be used			Microswitch can be used		
	TTF	DIN 80	DIN 110	TTF	DIN 80	DIN 110
000		B227218  S1000FS1DN80R			V227672  S1000FS1DN80RM	
00		C227219  S1000FS1DN80R			W227673  S1000FS1DN80RM	
30	N320701 S130-31FS1TTR	L320745 S130-32FS1DN80R	X320755 S10-2FS1DN11R	P320725 S130-31FS1TTRM	R320750 S13XFS1DN80RM	C320760 S10-2FS1DN11RM
31						
32	S320705 S132FS1TTR			V320730 S132-33FS1TTRM		
33	Y320710 S133FS1TTR	R320750 S13XFS1DN80RM	C320760 S10-3FS1DN11RM			
70	D320715		X320755 S10-1-2FS1DN11R	A320735C S170-71FS1TTRM		C320760 S10-3FS1DN11RM
71	S170-71FS1TTR					
72	J320720 S172-73FS1TTR		C320760 S10-3FS1DN11RM	F320740 S172-73FS1TTRM		
73						



IP20 finger safe fuse holder



ITCP for semi-conductor fuses

ITCP for semi-conductor fuses

Selection chart: ITCP thermal ratings vs. fuse type
Ref. number



ITCP for semi-conductor fuses

		For PROTISTOR® fuses														
ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	Ferrule				00 - 000 Solid blades Brackets		End contacts PSC								
		10 x 38	14 x 51	22 x 58	27 x 60	00P	000/00D80	30TT	31TT	32TT	33TT	70TT	71TT	72TT	73TT	
32 A	3,5 W @ Ith 3,5 W @ Ithe	B210405 <i>J205283</i>														
50 A	7,5 W @ Ith 7,5 W @ Ithe		C210406 <i>Y209896</i>													
125 A	12 W @ Ith 12 W @ Ithe			D210407 <i>L210782</i>												
160 A (135)*	12 W @ Ith 9 W @ Ithe					E210408 <i>B210888</i>	F210409 <i>S210788</i>									
250 A (230)*	32 W @ Ith 23 W @ Ithe							G210410 <i>X210125</i>	H210411 <i>Y210126</i>	H210411 <i>Y210126</i>			J210412 <i>Z210127</i>	J210412 <i>Z210127</i>		
400 A (360)*	45 W @ Ith 34 W @ Ithe*							M210415 <i>C210130</i>	N210416 <i>D210131</i>	N210416 <i>D210131</i>	N210416 <i>D210131</i>		P210417 <i>E210132</i>	P210417 <i>E210132</i>	P210417 <i>E210132</i>	
630 A (570)*	60 W @ Ith 45 W @ Ithe*								S210420 <i>H210135</i>	S210420 <i>H210135</i>	S210420 <i>H210135</i>		S210420 <i>H210135</i>	S210420 <i>H210135</i>	S210420 <i>H210135</i>	
800 A (720)*	65 W @ Ith 55 W @ Ithe*							W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>	W210423 <i>M210139</i>

Ref. number

		For PROTISTOR® fuses														
ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	German PSC range				American PSC range										
		30-70 DIN 110	31-71 DIN 110	32-72 DIN 110	33-73 DIN 110	Long blades				Short blades						
						30LI	31LLI	32LI	33LI	70KI	71KI	72KI	73KI			
32 A	3,5 W @ Ith 3,5 W @ Ithe															
50 A	7,5 W @ Ith 7,5 W @ Ithe															
125 A	12 W @ Ith 12 W @ Ithe															
160 A (135)*	12 W @ Ith 9 W @ Ithe															
250 A (230)*	32 W @ Ith 23 W @ Ithe	K210413 <i>A210128</i>	K210413 <i>A210128</i>			L210414 <i>B210129</i>	L210414B <i>Z10129</i>			L210414 <i>B210129</i>	L210414 <i>B210129</i>					
400 A (360)*	45 W @ Ith 34 W @ Ithe*	Q210418 <i>F210133</i>	Q210418 <i>F210133</i>	Q210418 <i>F210133</i>		R210419 <i>G210134</i>	R210419 <i>G210134</i>	R210419 <i>G210134</i>		R210419 <i>G210134</i>	R210419 <i>G210134</i>	R210419 <i>G210134</i>				
630 A (570)*	60 W @ Ith 45 W @ Ithe*	T210421 <i>L210138</i>	T210421 <i>L210138</i>	T210421 <i>L210138</i>		V210422 <i>K210137</i>	V210422 <i>K210137</i>	V210422 <i>K210137</i>		V210422 <i>K210137</i>	V210422 <i>K210137</i>	V210422 <i>K210137</i>				
800 A (720)*	65 W @ Ith 55 W @ Ithe*	X210424 <i>Q210142</i>	X210424 <i>Q210142</i>	X210424 <i>Q210142</i>	X210424 <i>Q210142</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>	Y210425 <i>P210141</i>

In boldface type: Switches + accessories to be assembled (switch + connection kit + inside handle + protection against accidental contact with fuses + protection against accidental contact with terminals + pre-isolating microswitch).

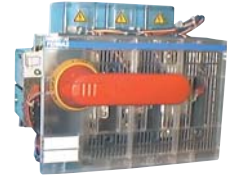
In italics: Switch – Order accessories separately.

@ Ith: Value given at switch thermal rating

@ Ithe: Value given for shrouded switch (as when in cubicle)

ITCP pour fusibles semi-conducteurs

Tableau de sélection : calibres thermiques ITCP / Type de fusible
Catalog number




Pour fusibles PROTISTOR®

ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	Ferrule				00 - 000	
							
		10 x 38	14 x 51	22 x 58	27 x 60	00P	000/00D80
32 A	3,5 W @ Ith 3,5 W @ Ithe	ITCP32C3CP10 <i>ITCP32S3CF</i>					
50 A	7,5 W @ Ith 7,5 W @ Ithe		ITCP50C3CP14 <i>ITC50S3CF</i>				
125 A	12 W @ Ith 12 W @ Ithe			ITCP125C3CP22 <i>ITC125S3CF</i>			
160 A (135)*	12 W @ Ith 9 W @ Ithe				- <i>ITCP160K3CP27</i>	ITCP160C3D08 <i>ITC160S3CF</i>	
250 A (230)*	32 W @ Ith 23 W @ Ithe						ITCP250C3TD08 <i>ITCP250K3TD08</i>
400 A (360)*	45 W @ Ith 34 W @ Ithe*						ITCP400C3TD08 <i>ITCP400K3TD08</i>
630 A (570)*	60 W @ Ith 45 W @ Ithe*						
800 A (720)*	65 W @ Ith 55 W @ Ithe*						

Catalog number

Pour fusibles PROTISTOR®

ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	End contacts PSC							
			31TT	32TT	33TT	70TT	71TT	72TT	73TT
32 A	3,5 W @ Ith 3,5 W @ Ithe								
50 A	7,5 W @ Ith 7,5 W @ Ithe								
125 A	12 W @ Ith 12 W @ Ithe								
160 A (135)*	12 W @ Ith 9 W @ Ithe								
250 A (230)*	32 W @ Ith 23 W @ Ithe	ITCP250C3TTF3 <i>ITCP250K3TTF3</i>	ITCP250C3TTF3 <i>ITCP250K3TTF3</i>			ITCP250C3TTF7 <i>ITCP250K3TTF7</i>	ITCP250C3TTF7 <i>ITCP250K3TTF7</i>		
400 A (360)*	45 W @ Ith 34 W @ Ithe*	ITCP400C3TTF3 <i>ITCP400K3TTF3</i>	ITCP400C3TTF3 <i>ITCP400K3TTF3</i>	ITCP400C3TTF3 <i>ITCP400K3TTF3</i>		ITCP400C3TTF7 <i>ITCP400K3TTF7</i>	ITCP400C3TTF7 <i>ITCP400K3TTF7</i>	ITCP400C3TTF7 <i>ITCP400K3TTF7</i>	
630 A (570)*	60 W @ Ith 45 W @ Ithe*	ITCP630C3TTF <i>ITCP630K3TTF</i>	ITCP630C3TTF <i>ITCP630K3TTF</i>	ITCP630C3TTF <i>ITCP630K3TTF</i>		ITCP630C3TTF <i>ITCP630K3TTF</i>	ITCP630C3TTF <i>ITCP630K3TTF</i>	ITCP630C3TTF <i>ITCP630K3TTF</i>	
800 A (720)*	65 W @ Ith 55 W @ Ithe*	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>	ITCP800C3TTF <i>ITCP800K3TTF</i>

In boldface type: Switches + accessories to be assembled [switch + connection kit + inside handle + protection against accidental contact with fuses + protection against accidental contact with terminals + pre-isolating microswitch].

In italics: Switch – Order accessories separately.


@ Ith: Value given at switch thermal rating

@ Ithe: Value given for shrouded switch (as when in cubicle)


ITCP for semi-conductor fuses

ITCP pour fusibles semi-conducteurs

Tableau de sélection : calibres thermiques ITCP / Type de fusible
Catalog number

		Pour fusibles PROTISTOR®			
ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	German PSC range			
		30-70 DIN 110	31-71 DIN 110	32-72 DIN 110	33-73 DIN 110
					
32 A	3,5 W @ Ith 3,5 W @ Ithe				
50 A	7,5 W @ Ith 7,5 W @ Ithe				
125 A	12 W @ Ith 12 W @ Ithe				
160 A (135)*	12 W @ Ith 9 W @ Ithe				
250 A (230)*	32 W @ Ith 23 W @ Ithe	ITCP250C3D11 <i>ITCP250K3D11</i>	ITCP250C3D11 <i>ITCP250K3D11</i>		
400 A (360)*	45 W @ Ith 34 W @ Ithe*	ITCP400C3D11 <i>ITCP400K3D11</i>	ITCP400C3D11 <i>ITCP400K3D11</i>	ITCP400C3D11 <i>ITCP400K3D11</i>	
630 A (570)*	60 W @ Ith 45 W @ Ithe*	ITCP630C3D08/14 <i>ITCP630K3D11/14</i>	ITCP630C3D08/14 <i>ITCP630K3D11/14</i>	ITCP630C3D08/14 <i>ITCP630K3D11/14</i>	
800 A (720)*	65 W @ Ith 55 W @ Ithe*	ITCP800C3D08/14 <i>ITCP800K3D08/14</i>	ITCP800C3D08/14 <i>ITCP800K3D08/14</i>	ITCP800C3D08/14 <i>ITCP800K3D08/14</i>	ITCP800C3D08/14 <i>ITCP800K3D08/14</i>

Catalog number

		Pour fusibles PROTISTOR®							
ITCP Thermal rating Ambient temperature outside ≤ 40°C	Max. power loss in fuse	American PSC range							
		Long blades				Short blades			
		30LI	31LI	32LI	33LI	70KI	71KI	72KI	73KI
									
32 A	3,5 W @ Ith 3,5 W @ Ithe								
50 A	7,5 W @ Ith 7,5 W @ Ithe								
125 A	12 W @ Ith 12 W @ Ithe								
160 A (135)*	12 W @ Ith 9 W @ Ithe								
250 A (230)*	32 W @ Ith 23 W @ Ithe	ITCP250C3US <i>ITCP250K3US</i>	ITCP250C3US <i>ITCP250K3US</i>			ITCP250C3US <i>ITCP250K3US</i>	ITCP250C3US <i>ITCP250K3US</i>		
400 A (360)*	45 W @ Ith 34 W @ Ithe*	ITCP400C3US <i>ITCP400K3US</i>	ITCP400C3US <i>ITCP400K3US</i>	ITCP400C3US <i>ITCP400K3US</i>		ITCP400C3US <i>ITCP400K3US</i>	ITCP400C3US <i>ITCP400K3US</i>	ITCP400C3US <i>ITCP400K3US</i>	
630 A (570)*	60 W @ Ith 45 W @ Ithe*	ITCP630C3US <i>ITCP630K3US</i>	ITCP630C3US <i>ITCP630K3US</i>	ITCP630C3US <i>ITCP630K3US</i>		ITCP630C3US <i>ITCP630K3US</i>	ITCP630C3US <i>ITCP630K3US</i>	ITCP630C3US <i>ITCP630K3US</i>	
800 A (720)*	65 W @ Ith 55 W @ Ithe*	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>	ITCP800C3US <i>ITCP800K3US</i>

In boldface type: Switches + accessories to be assembled (switch + connection kit + inside handle + protection against accidental contact with fuses + protection against accidental contact with terminals + pre-isolating microswitch).

In italics: Switch – Order accessories separately.

@ Ith: Value given at switch thermal rating

@ Ithe: Value given for shrouded switch (as when in cubicle)

Miniature Fuses

- **Miniature fuses** 108 - 112
 - **Convenience fuses** 113 - 117
-



5 x 20 - 250 V – Glass body

Size	Current (A)	Voltage (V)	FAST ACTING Ref. number (5SF)	FAST ACTING Cat.number (5SF)	TIME LAG Ref. number (5ST)	TIME LAG Cat.number (5ST)	Pckg
5 x 20	0,063	250	-	-	D090531P	MI5ST25V0,063	50
5 x 20	0,08	250	Z090504P	MI5SF25V0,08	E090532P	MI5ST25V0,08	50
5 x 20	0,1	250	A090505P	MI5SF25V0,1	F090533P	MI5ST25V0,1	50
5 x 20	0,125	250	B090506P	MI5SF25V0,125	G090534P	MI5ST25V0,125	50
5 x 20	0,16	250	C090507P	MI5SF25V0,16	H090535P	MI5ST25V0,16	50
5 x 20	0,2	250	D090508P	MI5SF25V0,2	J090536P	MI5ST25V0,2	50
5 x 20	0,25	250	E090509P	MI5SF25V0,25	K090537P	MI5ST25V0,25	50
5 x 20	0,315	250	F090510P	MI5SF25V0,315	L090538P	MI5ST25V0,315	50
5 x 20	0,4	250	G090511P	MI5SF25V0,4	M090539P	MI5ST25V0,4	50
5 x 20	0,5	250	H090512P	MI5SF25V0,5	N090540P	MI5ST25V0,5	50
5 x 20	0,63	250	J090513P	MI5SF25V0,63	P090541P	MI5ST25V0,63	50
5 x 20	0,8	250	K090514P	MI5SF25V0,8	Q090542P	MI5ST25V0,8	50
5 x 20	1	250	L090515P	MI5SF25V1	R090543P	MI5ST25V1	50
5 x 20	1,25	250	M090516P	MI5SF25V1,25	S090544P	MI5ST25V1,25	50
5 x 20	1,6	250	N090517P	MI5SF25V1,6	T090545P	MI5ST25V1,6	50
5 x 20	2	250	P090518P	MI5SF25V2	V090546P	MI5ST25V2	50
5 x 20	2,5	250	Q090519P	MI5SF25V2,5	W090547P	MI5ST25V2,5	50
5 x 20	3,15	250	R090520P	MI5SF25V3,15	X090548P	MI5ST25V3,15	50
5 x 20	4	250	S090521P	MI5SF25V4	Y090549P	MI5ST25V4	50
5 x 20	5	250	T090522P	MI5SF25V5	Z090550P	MI5ST25V5	50
5 x 20	6,3	250	V090523P	MI5SF25V6,3	A090551P	MI5ST25V6,3	50
5 x 20	8 ⁽¹⁾	250	W090524P	MI5SF25V8	P206070P	MI5ST25V8	50
5 x 20	10 ⁽¹⁾	250	X090525P	MI5SF25V10	Q206071P	MI5ST25V10	50
5 x 20	12,5 ⁽¹⁾	250	W233446P	MI5SF25V12,5	Z233449P	MI5ST25V12,5	50
5 x 20	16 ⁽¹⁾	250	X233447P	MI5SF25V16	A233450P	MI5ST25V16	50
5 x 20	20 ⁽¹⁾	250	Y233448P	MI5SF25V20	B233451P	MI5ST25V20	50

Box of assorted fuses	G203763A	MIBOX5SF	H203764A	MIBOX5ST	1
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IEC 127-2 sheet 2 and 3 compliant.

(1) Non standard ratings. Ceramic bodies for the 12.5, 16 and 20A fuse ratings.



Ref. J090513P (Fast acting)



Ref. M090539P (Time lag)



Ref. G203763A

Functions

Glass body dimensions 5 x 20 mm.
Low breaking capacity (35A or 10In).
Designated as per standard F: Fast acting, T: Time lag.

Applications

Protection of consumer electrical circuits and equipment, protection of intermediate PC boards in LV industrial equipment.

Box of assorted 5 x 20 fuses



Fuses	Fuse body	Operating type	Range	Breaking capacity	Ref.Number	Cat.Number
5x20 - 250V	Glass	Time lag	5ST	Faible	H203764A	MIBOX5ST
5x20 - 250V	Glass	Fast acting	5SF	Faible	G203763A	MIBOX5SF
5x20 - 250V	Glass	Some time lag	5SM	Faible	P233440A	MIBOX5SM
5x20 - 250V	Ceramic	Fast acting	5HF	Fort	B229863A	MIBOX5HF
5x20 - 250V	Ceramic	Time lag	5HT	Fort	C229854A	MIBOX5HT

5 x 20 - 250 V – Ceramic body

Size	Current (A)	Voltage (V)	FAST ACTING Ref. number (5HF)	FAST ACTING Cat.number (5HF)	TIME LAG Ref. number (5HT)	TIME LAG Cat.number (5HT)	Pckg
5 x 20	0,1(1)	250	G095548P	M15HF25V0,1	-	-	50
5 x 20	0,125(1)	250	H095549P	M15HF25V0,125	-	-	50
5 x 20	0,16(1)	250	J095550P	M15HF25V0,16	-	-	50
5 x 20	0,2(1)	250	Q095556P	M15HF25V0,2	-	-	50
5 x 20	0,25(1)	250	R095557P	M15HF25V0,25	P085366P	M15HT25V0,25	50
5 x 20	0,315(1)	250	S095558P	M15HF25V0,315	R094821P	M15HT25V0,315	50
5 x 20	0,4(1)	250	T095559P	M15HF25V0,4	W094825P	M15HT25V0,4	50
5 x 20	0,5(1)	250	V095560P	M15HF25V0,5	S085369P	M15HT25V0,5	50
5 x 20	0,63(1)	250	W095561P	M15HF25V0,63	X094826P	M15HT25V0,63	50
5 x 20	0,8(1)	250	X095562P	M15HF25V0,8	V085371P	M15HT25V0,8	50
5 x 20	1	250	Y095563P	M15HF25V1	W085372P	M15HT25V1	50
5 x 20	1,25	250	C095567P	M15HF25V1,25	X085373P	M15HT25V1,25	50
5 x 20	1,6	250	D095568P	M15HF25V1,6	Y085374P	M15HT25V1,6	50
5 x 20	2	250	E095569P	M15HF25V2	Z085375P	M15HT25V2	50
5 x 20	2,5	250	F095570P	M15HF25V2,5	A085376P	M15HT25V2,5	50
5 x 20	3,15	250	G095571P	M15HF25V3,15	B085377P	M15HT25V3,1	50
5 x 20	4	250	H095572P	M15HF25V4	C085378P	M15HT25V4	50
5 x 20	5	250	J095573P	M15HF25V5	D085379P	M15HT25V5	50
5 x 20	6,3	250	K095574P	M15HF25V6,3	E085380P	M15HT25V6,3	50
5 x 20	8(2)	250	J085407P	M15HF25V8	A208357P	M15HT25V8	50
5 x 20	10(2)	250	K085408P	M15HF25V10	B208358P	M15HT25V10	50

IEC 127-2 sheet 1 and 5 compliant.
 (1) Unlisted product
 (2) Non standard ratings



Ref. S095558P (Fast Acting)

Functions

5 x 20 mm ceramic body, no sand filling, high breaking capacity (1500A).
 Designated as per standard F: Fast acting, T: Time lag.

Applications

Protection of industrial electrical circuits and equipment.
 Protection of PC boards wired directly to the network (e.g. general power supply).

5 x 20 fuse holders and supports

Type of support	Fuse holder Ref.Number	Fuse holder Cat.Number	Fuse cover Ref.Number	Fuse cover Cat.Number	Characteristics	Pckg
Solder-mount fuse holder	K208228J	MISIPTF78	L208229J	MICPTBSPTF76-78	Pin spacing 22,6 mm	10
Solder-mount fuse holder	J208227J	MISIPTF76	L208229J	MICPTBSPTF76-78	Pin spacing 15 mm	10
Solder-mount fuse holder	P204943J	MISIPTF15	S204946J	MICPT140PTF15	Straight pins (center-to-center spacing 22 mm)	10
Solder-mount fuse holder	M209012J	MISIPTF15B	N085595J	MICPT140APTf15	Curved pins (center-to-center spacing 22 mm)	10
Screw-mount fuse holder	N204942J	MISIPTF10			W/o anti-rotation pin (center-to-center spacing 22 mm)	10
Screw-mount fuse holder	Q204944J	MISIPTF20			With anti-rotation pin (center-to-center spacing 22 mm)	10
Bayonet mount fuse holder for panels	T204947J	MIPUPTF30			Solder or use 2.8 x 0.5 mm lug	10
Bayonet mount fuse holder for PCB	X204950J	MIPUPTF45			Vertical (center-to-center spacing 10 mm)	10
Bayonet mount fuse holder for PCB	Y204951J	MIPUPTF50			Horizontal (center-to-center spacing 10 mm)	10
Solder-on fuse clips	W202074P	MIMR5CISP			PCB mount – 5 x 20 fuses	50
Solder-on fuse clips	Y098967P	MIMR5-6			PCB mount - 5 x 20 / 6 x 32 fuses	50
Solder-on fuse clips	J210550P	MIMR5CI-S			PCB mount – 5 x 20 fuses	50
Solder-on fuse clips	K210551P	MIMR5CI-C			PCB mount – 5 x 20 fuses	50
Modular fuse holder (Ph+N)	K225708K	MIMSM250V16IP+N			DIN rail mount – Ph+N 1 module	12
Fuse cover	L210552P	MICPT5MR5CI-C			For Y098967P and K210551P clips	50



Ref. Y204951J



Ref. P204943J (Straight pins)



Ref. Y098967P (PCB mount)

6 x 32 - 250 V – Glass body – Fast acting



Ref. R090566P (rapide)

Size	Current (A)	Voltage (V)	Ref. number	Cat.number	Pckg
6 x 32	0,1	UL/CSA 250	D085701P	MI6AG25V0,1	50
6 x 32	0,125	UL/CSA 250	E085702P	MI6AG25V0,125	50
6 x 32	0,15	UL/CSA 250	F085703P	MI6AG25V0,15	50
6 x 32	0,2	UL/CSA 250	H085705P	MI6AG25V0,2	50
6 x 32	0,25	UL/CSA 250	J085706P	MI6AG25V0,25	50
6 x 32	0,315	RU 250	P090564P	MI6SF25V0,315	50
6 x 32	0,4	RU 250	Q090565P	MI6SF25V0,4	50
6 x 32	0,5	RU 250	R090566P	MI6SF25V0,5	50
6 x 32	0,63	RU 250	S090567P	MI6SF25V0,63	50
6 x 32	0,8	RU 250	T090568P	MI6SF25V0,8	50
6 x 32	1	RU 250	V090569P	MI6SF25V1	50
6 x 32	1,25	RU 250	W090570P	MI6SF25V1,25	50
6 x 32	1,6	RU 250	X090571P	MI6SF25V1,6	50
6 x 32	2	RU 250	Y090572P	MI6SF25V2	50
6 x 32	2,5	RU 250	Z090573P(1)	MI6SF25V2,5	50
6 x 32	3,15	RU 250	A090574P(1)	MI6SF25V3,15	50
6 x 32	4	RU 250	B090575P(1)	MI6SF25V4	50
6 x 32	5	RU 250	C090576P(1)	MI6SF25V5	50
6 x 32	6,3	RU 250	D090577P(2)	MI6SF25V6,3	50
6 x 32	8	RU 250	E090578P(2)	MI6SF25V8	50
6 x 32	10	RU 250	F090579P(2)	MI6SF25V10	50
6 x 32	12,5	250	C233452P(3)	MI6SF25V12,5	50
6 x 32	16	250	D233453P(3)	MI6SF25V16	50
6 x 32	20	250	E233454P(3)	MI6SF25V20	50

0.100 to 0.25 A, UL/CSA 248-14 compliant
IEC 127-2 sheet 4 compliant (low breaking capacity - 35A or 10In)
(1) Recognized to 150 V
(2) Recognized to 60 V
(3) Ceramic bodies for the 12.5, 16 and 20 A fuse ratings.

Functions

Glass body dimensions 6 x 32 mm.
Designated as per standard:
3AG, 3SF: Fast acting,
3SB, 3ST: Time lag.

Applications

Protection of consumer electrical circuits and equipment.
Protection of intermediate PC boards in LV industrial equipment.

MSM 5 fuse holder – no accessories

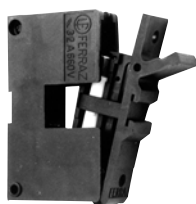
I_{th} max. 25A - Un 400V for 5x20 miniature fuses



Nb of pole	Ferraz Shawmut	Model w/o blown fuse indicator light		Pckg
		Cat.Number	Mod. number	
1	J225707	MSM51	1	12
1+N	K225708	MSM51N	1	12

SI 6 fuse holder – no accessories

I_{th} max. 25A - Un 400V for 6x32 miniature fuses



M091482

N091483

Nb of pole	Ferraz Shawmut	Model w/o blown fuse indicator light		Pckg
		Cat.Number	Mod. number	
1	M091482	SI61	1	10
1	N091483	SI61PRE	1	10
1	G082990	SI61PREBSM	1	10

6 x 32 - 250 V – Glass body – Time lag

Size	Current (A)	Voltage (V)	Ref. number	Cat. number	Pckg
6 x 32	0,062	250	B207507P	MI6SB25V0,062	50
6 x 32	0,08	250	C207508P	MI6SB25V0,08	50
6 x 32	0,1	250	D085724P	MI6SB25V0,1	50
6 x 32	0,125	250	E085725P	MI6SB25V0,125	50
6 x 32	0,15	250	F085726P	MI6SB25V0,15	50
6 x 32	0,175	250	G085727P	MI6SB25V0,175	50
6 x 32	0,2	250	H085728P	MI6SB25V0,2	50
6 x 32	0,25	250	J085729P	MI6SB25V0,25	50
6 x 32	0,3	250	K085730P	MI6SB25V0,3	50
6 x 32	0,375	250	V087510P	MI6SB25V0,375	50
6 x 32	0,4	250	X087512P	MI6SB25V0,4	50
6 x 32	0,5	250	Y087513P	MI6SB25V0,5	50
6 x 32	0,63	250	Z087514P	MI6SB25V0,6	50
6 x 32	0,75	250	A087515P	MI6SB25V0,75	50
6 x 32	1	250	B087516P	MI6SB25V1	50
6 x 32	1,25	250	C087517P	MI6SB25V1,25	50
6 x 32	1,5	250	D087518P	MI6SB25V1,5	50
6 x 32	1,8	250	E087519P	MI6SB25V1,8	50
6 x 32	2	250	F087520P	MI6SB25V2	50
6 x 32	2,5	250	G087521P	MI6SB25V2,5	50
6 x 32	3	250	H087522P	MI6SB25V3	50
6 x 32	4	250	J087523P	MI6SB25V4	50
6 x 32	5	250	K087524P	MI6SB25V5	50
6 x 32	6	250	L087525P	MI6SB25V6	50
6 x 32	7	250	M087526P	MI6SB25V7	50
6 x 32	8	250	Q087529P	MI6SB25V8	50
6 x 32	10	250	F233455P (1)	MI6ST25V10	50
6 x 32	12,5	250	G233456P (1)	MI6ST25V12,5	50
6 x 32	16	250	H233457P (1)	MI6ST25V16	50
6 x 32	20	250	J233458P (1)	MI6ST25V20	50



Ref. H085728P (temporisé)



UL and CSA 248-14 compliant

(1) IEC 127-2 sheet 4 compliant (low breaking capacity - 35A or 10In) Recognized to 125 V

Breaking capacity

0.063 to 1 A	35 A/250 V - 10 000 A/125 V
1.25 to 3 A	100 A/250 V - 10 000 A/125 V
4 to 8 A	200 A/250 V 10,000 A/125 V

6 x 32 fuse holders and supports

Type of support	Fuse holder Ref.Number	Fuse holder Cat.Number	Fuse cover Ref.Number	Fuse cover Cat.Number	Characteristics	Pckg
Bayonet mount fuse holder for panels	T210536J	MIPUP5-6L	Y210540J	MIBH6PU5-6	Panel mounting hole (ø 13, length 45mm)	10
Solder-on fuse clips	H210549P	MIMR6CIS			PCB mount – 6 x 32 fuses	50
Screw-on clips	K091480P	MIMR6VI			PCB mount – 6 x 32 fuses	50
Solder-on fuse clips	Y098967P	MIMR5-6			PCB mount - 5 x 20 / 6 x 32 fuses	50
Fuse cover	L210552P	MICPT5MR5CHC			for clip Y098967P	50



Ref. Y098967P (PCB mount)



T210536J

Miniature fuses

Miniature fuses with very high breaking capacity (HRC)

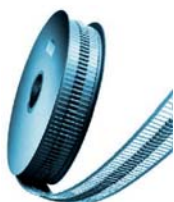
To see our line of Very High Breaking Capacity miniature fuses, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading **Miniature fuses**
> Very HRC fuses.



Miniature fuses with axial leads



For further information on our miniature fuse lines, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading **Miniature fuses**.

MODULOSTAR, OUR STAR MODULAR PRODUCT!

A global range

There are Modulostar models for all ferrule-style class gG and aM fuses built to IEC standards, all midget and CC fuses built to UL standards, and gR and aR fuses from 8mm to 27mm in diameter.

A modular range

Modulostar is a star in the modular world! All kinds of multi-pole combinations are possible: from 1 to 4 poles, and including 1 pole + neutral, 2-pole, 3-pole and 3-pole + neutral.

A range that stands out from the pack

Modulostar proves its worth in 11 different ways. Compatible, compact, easy-to-connect, easy-to-use, ergonomic, safe and flexible are just some of its qualities.

Modulostar in The Advisor at: <http://www.ferrazshawmut.fr/fr/products/index.html>



FUSE MONITORING: LOCATING A FAULT MADE EASY!



NOUVEAUTÉ !



Simplicity itself!

- Green LED on: Power on and fuses operational
- No LED on: Power off
- Red LED on: One or more blown fuses

Ask us for our literature on Fuse Monitoring (ref. GP011)

A NEW RANGE OF 10X38 690V aM & gG FUSES



NEW!

gG

General protection for panels, cables, transformers

aM

Protection for motor starters

IEC Fuses - MI5F25V - Fast acting

250 VAC - F: fast acting - from 0.032 to 20 A - size: 5 x 20

I_N Rating (A)	Breaking Capacity	Reference	Catalog Number	Pack.
0,032	35A 250V	D222942	MI5F25V0,032	10
0,04		M200732	MI5F25V0,04	10
0,05		B201274	MI5F25V0,05	10
0,063		L201789	MI5F25V0,063	10
0,08		K211011	MI5F25V0,08	10
0,1		L200731	MI5F25V0,1	10
0,125		A201273	MI5F25V0,125	10
0,16		K201788	MI5F25V0,16	10
0,2		J211010	MI5F25V0,2	10
0,25		A211531	MI5F25V0,25	10
0,315		F212042	MI5F25V0,315	10
0,4		B211532	MI5F25V0,4	10
0,5		Y212564	MI5F25V0,5	10
0,63		J213080	MI5F25V0,63	10
0,8		G212043	MI5F25V0,8	10
1		D213581	MI5F25V1	10
1,25		D214087	MI5F25V1,25	10
1,6		Z212565	MI5F25V1,6	10
2		J214598	MI5F25V2	10
2,5		Q215110	MI5F25V2,5	10
3,15	R215617	MI5F25V3,15	10	
4	10xln 250V	Z216130	MI5F25V4	10
5		W216633	MI5F25V5	10
6,3		H217150	MI5F25V6,3	10
8		M217660	MI5F25V8	10
10		X218175	MI5F25V10	10
12,5		K218693	MI5F25V12,5	10
16		Y219211	MI5F25V16	10
20		A219742	MI5F25V20	10

Fuses without approval.



DIN Fuses - MI5SM25V - Medium time lag

250 VAC - M: medium time - from 0.032 to 20 A - size: 5 x 20



I_N Rating (A)	Breaking Capacity	Reference	Catalog Number	Pack.
0,032	80A 250V	D218158	MI5SM25V0,032	10
0,04		Q218675	MI5SM25V0,04	10
0,05		D219193	MI5SM25V0,05	10
0,063		H219726	MI5SM25V0,063	10
0,08		Q222171	MI5SM25V0,08	10
0,1		Q222925	MI5SM25V0,1	10
0,125		T200715	MI5SM25V0,125	10
0,16		H201257	MI5SM25V0,16	10
0,2		T201773	MI5SM25V0,2	10
0,25		K207147	MI5SM25V0,25	10
0,315		J211516	MI5SM25V0,315	10
0,4		N212026	MI5SM25V0,4	10
0,5		F212548	MI5SM25V0,5	10
0,63		R213064	MI5SM25V0,63	10
0,8		M213566	MI5SM25V0,8	10
1		L214071	MI5SM25V1	10
1,25		T214584	MI5SM25V1,25	10
1,6		A215096	MI5SM25V1,6	10
2		A215602	MI5SM25V2	10
2,5		H216115	MI5SM25V2,5	10
3,15	E216618	MI5SM25V3,15	10	
4	300A 250V	R217135	MI5SM25V4	10
5		E218159	MI5SM25V5	10
6,3		R218676	MI5SM25V6,3	10
8		E219194	MI5SM25V8	10
10		J219727	MI5SM25V10	10
16		R222172	MI5SM25V16	10

Fuses without approval.



IEC Fuses - MI5T25V - Time lag

250 VAC - T: time lag - from 0.032 to 20 A - size: 5 x 20

I_N Rating (A)	Breaking Capacity	Reference	Catalog Number	Pack.
0,032	35A 250V	C216639	MI5T25V0,032	10
0,04		P217156	MI5T25V0,04	10
0,05		T217666	MI5T25V0,05	10
0,063		D218181	MI5T25V0,063	10
0,08		R218699	MI5T25V0,08	10
0,1		B216638	MI5T25V0,1	10
0,125		N217155	MI5T25V0,125	10
0,16		S217665	MI5T25V0,16	10
0,2		C218180	MI5T25V0,2	10
0,25		Q218698	MI5T25V0,25	10
0,315		D219216	MI5T25V0,315	10
0,4		E219217	MI5T25V0,4	10
0,5		F219747	MI5T25V0,5	10
0,63		N222192	MI5T25V0,63	10
0,8		G219748	MI5T25V0,8	10
1		J222947	MI5T25V1	10
1,25		S200737	MI5T25V1,25	10
1,6		P222193	MI5T25V1,6	10
2		G201279	MI5T25V2	10
2,5		R201794	MI5T25V2,5	10
3,15	Q211016	MI5T25V3,15	10	
4	10xln 250V	G211537	MI5T25V4	10
5		M212048	MI5T25V5	10
6,3		E212570	MI5T25V6,3	10
8		Q213086	MI5T25V8	10
10		J213586	MI5T25V10	10
12,5		P214603	MI5T25V12,5	10
16		X215116	MI5T25V16	10
20		Y215623	MI5T25V20	10

Fuses without approval.



IEC Fuses - MI6F25V - Fast acting

250 VAC - F: fast acting - from 0.032 to 25 A - size: 6 x 32



I_N Rating (A)	Breaking Capacity	Reference	Catalog Number	Pack.
0,032	35A 250V	B219214	MI6F25V0,032	10
0,04		D219745	MI6F25V0,04	10
0,05		L222190	MI6F25V0,05	10
0,063		G222945	MI6F25V0,063	10
0,08		Q200735	MI6F25V0,08	10
0,1		K217152	MI6F25V0,1	10
0,125		P217662	MI6F25V0,125	10
0,16		Z218177	MI6F25V0,16	10
0,2		M218695	MI6F25V0,2	10
0,25		A219213	MI6F25V0,25	10
0,315		C219744	MI6F25V0,315	10
0,4		E201277	MI6F25V0,4	10
0,5		K222189	MI6F25V0,5	10
0,63		F222944	MI6F25V0,63	10
0,8		P201792	MI6F25V0,8	10
1		P200734	MI6F25V1	10
1,25		D201276	MI6F25V1,25	10
1,6		N211014	MI6F25V1,6	10
2		N201791	MI6F25V2	10
2,5		M211013	MI6F25V2,5	10
3,15	J212045	MI6F25V3,15	10	
4	10xIn 250V	B212567	MI6F25V4	10
5		M213083	MI6F25V5	10
6,3		G214090	MI6F25V6,3	10
8		L214600	MI6F25V8	10
10		T215113	MI6F25V10	10
12,5		V215620	MI6F25V12,5	10
16		Z216636	MI6F25V16	10
20		Q217663	MI6F25V20	10
25		A218178	MI6F25V25	10

Fuses without approval.



IEC Fuses - MI6T25V - Time lag

250 VAC - T: time lag - from 0.032 to 25 A - size: 6 x 32

I_N Rating (A)	Breaking Capacity	Reference	Catalog Number	Pack.
0,032	35A 250V	H216138	MI6T25V0,032	10
0,04		F216642	MI6T25V0,04	10
0,05		S217159	MI6T25V0,05	10
0,063		X217669	MI6T25V0,063	10
0,08		G218184	MI6T25V0,08	10
0,1		M214095	MI6T25V0,1	10
0,125		Q214604	MI6T25V0,125	10
0,16		A215625	MI6T25V0,16	10
0,2		G216137	MI6T25V0,2	10
0,25		E216641	MI6T25V0,25	10
0,315		R217158	MI6T25V0,315	10
0,4		V218702	MI6T25V0,4	10
0,5		W217668	MI6T25V0,5	10
0,63		F218183	MI6T25V0,63	10
0,8		H219220	MI6T25V0,8	10
1		T218701	MI6T25V1	10
1,25		G219219	MI6T25V1,25	10
1,6		K219751	MI6T25V1,6	10
2		J219750	MI6T25V2	10
2,5		R222195	MI6T25V2,5	10
3,15	M222950	MI6T25V3,15	10	
4	10xln 250V	W200740	MI6T25V4	10
5		K201282	MI6T25V5	10
6,3		Q212051	MI6T25V6,3	10
8		H212573	MI6T25V8	10
10		S213088	MI6T25V10	10
12,5		L213588	MI6T25V12,5	10
16		N214096	MI6T25V16	10
20		R214605	MI6T25V20	10
25		Z215118	MI6T25V25	10

Fuses without approval.



Other Fuses

- **Fuses for Street lighting** 119
- **Fuses for Street lighting - HVI distribution** 120
- **Fuses for Power Utilities** 121 - 122
- **CNL CNN fuses for batteries** 123



Fuses for Street Lighting

10 x 180

Current (A)	Voltage	Ref. number w/o striker	Cat. Number w/o striker	Pckg
0,16	3200	E081838J	10GB32V0,16	10
0,315	3200	F081839J	10GB32V0,315	10
0,5	3200	G081840J	10GB32V0,5	10
0,8	3200	H081841J	10GB32V0,8	10
1	3200	P089621J	10GB32V1	10
1,25	3200	R078744J	10GB32V1,25	10
1,6	3200	N081409J	10GB32V1,6	10
2	3200	Q089622J	10GB32V2	10
2,5	3200	S078745J	10GB32V2,5	10
3,15	3200	M081845J	10GB32V3,15	10
4	3200	R089623J	10GB32V4	10
5	3200	M087733J	10GB32V5	10
6	3200	S089624J	10AB32V6	10
8	3200	T089625J	10AB32V8	10
10	3200	V089626J	10AB32V10	10
12	3200	W089627J	10AB32V12	10



10 x 180

Current (A)	Voltage	Ref. number w/o striker	Cat. Number w/o striker	Pckg
0,16	5500	A093035J	10GB55V0,16	10
0,315	5500	B093036J	10GB55V0,315	10
0,5	5500	W081140J	10GB55V0,5	10
0,8	5500	V081139J	10GB55V0,8	10
1	5500	T081138J	10GB55V1	10
1,25	5500	N093162J	10GB55V1,25	10
1,6	5500	S081137J	10GB55V1,6	10
2	5500	R081136J	10GB55V2	10
2,5	5500	P093163J	10GB55V2,5	10
3,15	5500	Q081135J	10GB55V3,15	10
3,5	5500	P081134J	10GB55V3,5	10
4	5500	N081133J	10GB55V4	10



36 x 190

Current (A)	Voltage	Ref. number w/o striker	Cat. Number w/o striker	Ref. number with striker	Cat. Number with striker	Pckg
2	3200	P081801A	36GD32V2			1
3,15	3200	Q081802A	36GD32V3,15			1
4	3200	R081803A	36GD32V4			1
5	3200	S081804A	36GD32V5			1
6,3	3200	T081805A	36GD32V6,3	K081797A	36GD32V6,3	1
8	3200	V081806A	36GD32V8	J081796A	36GD32V8	1
10	3200	W081807A	36GD32V10	H081795A	36GD32V10	1
12	3200	X081808A	36GD32V12	G081794A	36GD32V12	1
16	3200	Y081809A	36GD32V16	F081793A	36GD32V16	1
20	3200	Z081810A	36GD32V20	E081792A	36GD32V20	1
25	3200	A081811A	36GD32V25	D081791A	36GD32V25	1
32	3200	B081812A	36GD320V32	C081790A	36GD320V32	1
40	3200	C081813A	36GD32V40	B081789A	36GD32V40	1
50	3200	D081814A	36GD32V50	A081788A	36GD32V50	1
63	3200	L081798A	36GD32V63	Z081787A	36GD32V63	1
80	3200	M081799A	36GD32V80	Y081786A	36GD32V80	1
100	3200	N081800A	36GD32V100	X081785A	36GD32V100	1
Microswitch(1 contact)				E098674A	MC1-5NFLEX	1



- HVI distribution

36 x 250



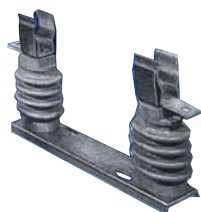
Current (A)	Voltage	Ref. number w/o striker	Cat. Number w/o striker	Ref. number with striker	Cat. Number with striker	Pckg	
2	5500	V081622A	36GB55V2			1	
3,15	5500	A081397A	36GB55V20			1	
4	5500	T081621A	36GB55V4			1	
5	5500	S081620A	36GB55V5			1	
6	5500	R081619A	36GB55V6	G081610A	36GB55V6P	1	
8	5500	Q081618A	36GB55V8	F081609A	36GB55V8P	1	
10	5500	P081617A	36GB55V10	E081608A	36GB55V10P	1	
12	5500	N081616A	36GB55V12	D081607A	36GB55V12P	1	
16	5500	M081615A	36GB55V16	C081606A	36GB55V16P	1	
20	5500	L081614A	36GB55V20	E078802A	36GB55V20P	1	
25	5500	Q078789A	36GB55V25	F078803A	36GB55V25P	1	
32	5500	R078790A	36GB55V32	G078804A	36GB55V32P	1	
40	5500	S078791A	36GB55V40	H078805A	36GB55V40P	1	
50	5500	T078792A	36GB55V50	J078806A	36GB55V50P	1	
63	5500	V078793A	36AJB55V63	K078807A	36AJB55V63P	1	
75	5500	W078794A	36AJB55V75	L078808A	36AJB55V75P	1	
Microswitch (1 contact)					E098674A	MC1-5NFLEX	1
Microswitch (2 contacts)					F098675A	MC1-9NFLEXQ	1

55 x 259



Current (A)	Voltage	Ref. number w/o striker	Cat. Number w/o striker	Ref. number with striker	Cat. Number with striker	Pckg	
2	5500	S081505C	55GD55V2			3	
3,15	5500	S081390C	55GD55V3,15			3	
4	5500	R081504C	55GD55V4			3	
5	5500	Q081503C	55GD55V5			3	
6	5500	P081502C	55GD55V6	A081489C	55GD55V6P	3	
8	5500	N081501C	55GD55V8	Z081488C	55GD55V8P	3	
10	5500	M081500C	55GD55V10	Y081487C	55GD55V10P	3	
12	5500	L081499C	55GD55V12	X081486C	55GD55V12P	3	
16	5500	K081498C	55GD55V16	W081485C	55GD55V16P	3	
20	5500	J081497C	55GD55V20	V081484C	55GD55V20P	3	
25	5500	H081496C	55GD55V25	T081483C	55GD55V25P	3	
32	5500	G081495C	55GD55V32	S081482C	55GD55V32P	3	
40	5500	F081494C	55GD55V40	R081481C	55GD55V40P	3	
50	5500	E081493C	55GD55V50	Q081480C	55GD55V50P	3	
63	5500	D081492C	55GD55V63	P081479C	55GD55V63P	3	
80	5500	C081491C	55GD55V80	N081478C	55GD55V80P	3	
100	5500	B081490C	55GD55V100	M081477C	55GD55V100P	3	
Microswitch (1 contact)					E092694A	MC1-5NFLEX	1
Microswitch (2 contacts)					F092695A	MC1-9NFLEXQ	1

MV fuse holders



Fuse size	Voltage (V AC)	Fuse holder Ref. numbe	Fuse holder Cat. Number
10 x 180	3200	S092706A	SI50-10-180
10 x 180	5500	D092693A	SI85-36-190TRA
36 x 190	3200	C092738A	SI85-10-180
36 x 250	5500	P092864A	SI85-36-250
55 x 259	5500	X092227A	SI130-55-259

Medium Voltage – Size 55 x 520 – UTE French utility standards compliant

Voltage (V)	Current (A)	Pckg	Set of 3 fuses	EDF part number	Ref. number w/o striker	Cat.number w/o striker	Ref. number with striker	Cat.number with striker
24	6,3	3	1	73.02.132	A210795A	LOT-FR240V6,3	G227430A	LOT-FR240V6,3P
24	16	3	1	73.02.133	B210796A	LOT-FR240V16	H227431A	LOT-FR240V16P
24	32	3	1	-	G226234A	LOT-FR240V32	J227432A	LOT-FR240V32P
24	43	3	1	73.02.134	C210797A	LOT-FR240V43	K227433A	LOT-FR240V43P
24	63	3	1	73.02.135	D210798A	LOT-FR240V63	L227434A	LOT-FR240V63P

Medium Voltage – DIN standard

Size	Current (A)	Voltage	Ref. number	Cat.Number	Pckg
192	6,3	7200	S209293A	45DIN72V6,3P	1
192	10	7200	T209294A	45DIN72V10P	1
192	16	7200	V209295A	45DIN72V16P	1
192	20	7200	W209296A	45DIN72V20P	1
192	25	7200	X209297A	45DIN72V25P	1
192	32	7200	Y209298A	45DIN72V31,5P	1
192	40	7200	Z209299A	45DIN72V40P	1
192	50	7200	A209300A	45DIN72V50P	1
192	63	7200	B209301A	45DIN72V63P	1
192	80	7200	C209302A	45DIN72V80P	1
192	100	7200	D209303A	45DIN72V100P	1
292	6,3	12000	F209305A	45DIN120V6,3P	1
292	10	12000	G209306A	45DIN120V10P	1
292	16	12000	H209307A	45DIN120V16P	1
292	20	12000	J209308A	45DIN120V20P	1
292	25	12000	K209309A	45DIN120V25P	1
292	32	12000	L209310A	45DIN120V31,5P	1
292	40	12000	M209311A	45DIN120V40P	1
292	50	12000	N209312A	45DIN120V50P	1
292	63	12000	P209313A	45DIN120V63P	1
292	80	12000	Q209314A	45DIN120V80P	1
292	100	12000	R209315A	45DIN120V100P	1
292	6,3	17500	T209317A	45DIN175V6,3P	1
292	10	17500	V209318A	45DIN175V10P	1
292	16	17500	W209319A	45DIN175V16P	1
292	20	17500	X209320A	45DIN175V20P	1
292	25	17500	Y209321A	45DIN175V25P	1
292	32	17500	Z209322A	45DIN175V31,5P	1
292	40	17500	A209323A	45DIN175V40P	1
292	50	17500	N220099C	45AL175V50P-2	3
292	63	17500	J220164C	45AL175V63P-2	3
292	80	17500	V202671C	45AL175V80P-2	3
442	6,3	24000	S209339A	45DIN240V6,3P	1
442	10	24000	T209340A	45DIN240V10P	1
442	16	24000	V209341A	45DIN240V16P	1
442	20	24000	W209342A	45DIN240V20P	1
442	25	24000	X209343A	45DIN240V25P	1
442	32	24000	Y209344A	45DIN240V31,5P	1
442	40	24000	Z209345A	45DIN240V40P	1
442	50	24000	A209346A	45DIN240V50P	1
442	63	24000	B209347A	45DIN240V63P	1
442	80	24000	H082186C	45AL240V80P-3	3
442	100	24000	T220541C	45AL240V100P-3	3
537	6,3	36000	S209362A	45DIN360V6,3P	1
537	10	36000	T209363A	45DIN360V10P	1
537	16	36000	V209364A	45DIN360V16P	1
537	20	36000	W209365A	45DIN360V20P	1
537	25	36000	X209366A	45DIN360V25P	1
537	32	36000	Y209367A	45DIN360V31,5P	1
537	40	36000	Z209368A	45DIN360V40P	1
Microswitch (1 contact)			E092855A	MC1-5NFLEXQS500	1
Microswitch (2 contacts)			F092856A	MC1-9NFLEXQS500	1



AD-type French utility standard fuses



For cylindrical blade-style fuses: Please enquire.

Size	Current (A)	Voltage	Ref. number	Cat.Number	Pckg
10 x 38	15	440	V216149J	10AD44V15	10
4 x 51	15	440	E222966J	14AD44V15	10
14 x 51	30	440	M200755J	14AD44V30	10
22 x 58	15	440	M222973J	22AD44V15	10
22 x 58	30	440	V200762J	22AD44V30	10
22 x 58	45	440	K201305J	22AD44V45	10
22 x 58	60	440	T201819J	22AD44V60	10
00	45	440	J223430J	00AD44V45	10
00	60	440	P223435J	00AD44V60	10
00	90	440	X223442J	00AD44V90	10
10 x 38 neutral			R211569J	FRN1038	10
14 x 51 neutral			L228032J	FRN1451	10
22 x 58 neutral			M228033J	FRN2258	10
00 neutral			X216058J	NH00NEUTRAL	10



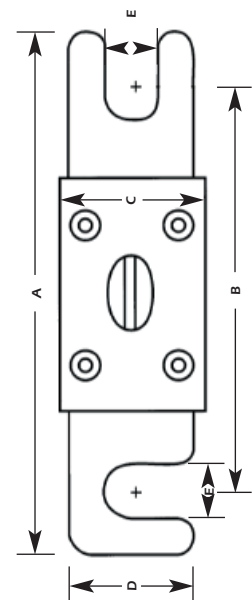
CNL fuses for batteries

Voltage (V)	Current (A)	Fuse holder Ref. number	Fuse holder Cat. Number
	35	T216332E	CNL35 DIN
	40	L217360E	CNL40 DIN
	50	A218385E	CNL50 DIN
	60	E219424E	CNL60 DIN
	80	Y219947E	CNL80 DIN
	100	K201995E	CNL100 DIN
	125	K211218E	CNL125 DIN
	130	A211738E	CNL130 DIN
80VAC/DC	150	J212252E	CNL150 DIN
	175	W212769E	CNL175 DIN
PdC: 2500A	200	J213287E	CNL200 DIN
	225	A213785E	CNL225 DIN
	250	J214299E	CNL250 DIN
	275	J214805E	CNL275 DIN
	300	L215313E	CNL300 DIN
	325	P215822E	CNL325 DIN
	350	X216841E	CNL350 DIN
	400	T217873E	CNL400 DIN
	500	Q218905E	CNL500 DIN
Porte-fusible		A092092C	SFBT



CNN fuses for batteries

Voltage (V)	Current (A)	Fuse holder Ref. number	Fuse holder Cat. Number
130VAC 75VDC PdC : 2500A	10	E228831	CNN10 DIN
	35	F228832	CNN35 DIN
	40	G228833	CNN40 DIN
	50	H228834	CNN50 DIN
	60	J228835	CNN60 DIN
	80	K228836	CNN80 DIN
	90	L228837	CNN90 DIN
	100	M228838	CNN100 DIN
	125	N228839	CNN125 DIN
	150	P228840	CNN150 DIN
	175	Q228841	CNN175 DIN
	180	N229874	CNN180 DIN
	200	R228842	CNN200 DIN
	225	S228843	CNN225 DIN
	250	T228844	CNN250 DIN
	275	V228845	CNN275 DIN
130VAC 48VDC PdC : 2500A @48VDC	300	W228846	CNN300 DIN
	325	X228874	CNN325 DIN
	350	Y228848	CNN350 DIN
	400	Z228849	CNN400 DIN
	500	A228850	CNN500 DIN
	600	B228851	CNN600 DIN
Fuse base	700	C228852	CNN700 DIN
	800	D228853	CNN800 DIN
		A092092	SFBT



Dimensions

	A mm	B mm	C mm	D mm	E mm
CNL DIN/CNN DIN	82	60	23 max	20	11



The Ferraz Shawmut brand in industry it's the combination of three decisive assets: know-how, convenience and communication.



Know-how

To start with, Ferraz Shawmut has outstanding technical know-how. The company's reputation around the world is based on technical mastery.

But that's not enough in today's world, where the customer expects much more than just the product and how it's used. So Ferraz Shawmut's know-how is now exercised in every process within the company.

Ferraz Shawmut is the undisputed leader in the field of circuit protection and fuses. A fuse is the ultimate solution in an industrial setting: safer, cheaper and more adaptable to changes.



Le fusible - Estampillé sûr et fiable !

The fuse hallmark - safe and reliable!

A fuse acts fast. The sheer speed at which it clears a fault makes it the most energy limiting protection device in short circuit conditions.

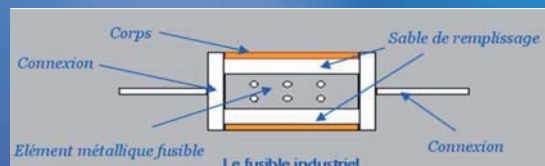
A fuse can clear very high fault currents. Its breaking capacity is its second essential characteristic. Some models can clear short circuit currents up to 250 kA, with no damage. No other circuit protection device can do that.

A fuse is safe. The principle on which it operates is the best proof of that. Inside the fuse body, a metal element melts down when current is too high. There is no outside sign when that happens, because the electrical arc generated when the fuse blows is trapped inside it.

The resulting energy is absorbed by the sand filling.

A fuse is reliable. The physics it is based on make its characteristics extremely stable over time. In the vast majority of cases a fuse won't age.

A fuse is easy to coordinate. Fuses can be selectively coordinated. Only the smallest fuse closest to the short circuit will open. Fuses higher up in the installation are not affected.



*Pour en savoir plus, demandez
notre vidéo Simply Perfect à
notre équipe commerciale*



Operational Quality

The customer in our workshop! The customer in our workshop is a real watchword for our operational team. Customer requirements, relating to both product and service, are taken into account all along the Supply Chain. It's this department's responsibility to enforce those requirements day to day. That's know-how, too.

Convenience

"The closer we are, the better we can serve you", that's our motto and goal.

Points of sale

The Ferraz Shawmut brand is available somewhere near any customer through 500 professional distributor points of sale in France and more than 4500 of them worldwide. That determination to remain as close as possible is accentuated by the strong commitment of our people in the field to driving and training our network of distributors.



Technical Support

We have set up specific technical support resources **-our hotline (call 0820 820 846)-** and technical support over the Web (**ts@fr.ferrazshawmut.com**) to make sure Ferraz Shawmut's technical knowledge is always conveniently available.

Through those channels you can get or confirm product cross-references, approve solutions with our specialists or ask any questions of a technical nature.

People who've tried this direct service keep coming back!

Logistics

One of our major efforts is to have a worldwide logistics organization for fast, reliable service.

Supply and delivery logistics are an integral part of our goal of convenience.

So Ferraz Shawmut has invented the TOP STARS.

These are fast moving products that should never suffer a stockout.

In this catalog their names are highlighted in bold face type.

TOP STARS are our customer focus in logistics!



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Pckg
6,3 x 23	2	250	N213590J	FR623GG23V2	-		10
6,3 x 23	4	250	O214098J	FR623GG23V4	-		10
6,3 x 23	6	250	T214607J	FR623GG23V6	-		10
6,3 x 23	10	250	D215628J	FR623GG23V10	-		10

In bold face type: Top Star products (usually in stock with distributors).

Communication

Ferraz Shawmut didn't wait for the kaleidoscope of new communication technologies to get the message out. It's in our business culture to explain, advise and train.



The three major resources to inform you about Ferraz Shawmut's offering are:

- **the Fuse and Fusegear Guide** you're holding. It gives a simplified presentation of our basic products,

- **the Advisor**, our complete catalog on CD-ROM and on line in the e-Advisor version on Internet. It will give you the most exhaustive technical data on all our product lines,

- **the Web site at www.ferrazshawmut.com**



Training








Spreading the message of our know-how

It's vital to train our customers – OEMs, end users, or distributors – in circuit protection.

That's the mission of some members of the Ferraz Shawmut Technical Support team. Using the appropriate resources for the audience, our sales engineers provide training in the notions behind circuit protection, Ferraz Shawmut's offering, and the standards in the field.



Fuses for what applications?

	A Medium Voltage	B Low Voltage	C Printed circuit boards	D Power electronics	E Forklift batteries
1 Ferrule-style fuses					
2 Blade-style fuses					
3 Square body fuses					
4 Special purpose fuses					
Infrastructure / Construction					
MV electrical systems	■				
MV/LV transformers	■				
LV electrical systems		■			
LV mains / branch circuits		■			
Manufacturing equipment and automatic control for industry					
MV electric motors	■				
LV electric motors		■			
Soft starters				■	
Speed controllers				■	
Uninterrupted power supplies (UPS)				■	
Rectifiers				■	
Converters				■	
Printed circuit boards			■		
Point of use equipment		■			
Logistics					
Forklift trucks					■
Electric pallet-forks					■
Motorized platforms					■

Fuses or circuit breakers?

The miniature fuse solution is the best choice to protect printed circuit boards.

Protection by ultrafast fuses is the best choice for power electronics (e.g. thyristors).

To protect low voltage general distribution circuits, two alternatives share the market: fuses and circuit breakers.

In residential applications, an easy-to-use circuit breaker is often chosen over the more economical fuse.

But in industrial applications, the fuse offers better performances than the circuit breaker and remains the best solution:

- to protect against short circuits, thanks to a high breaking capacity, up to 250 kA
- to guarantee the circuit will open, thanks to the simple physical principle behind the fuse
- for risk-free interchangeability thanks to IEC standard 269, which defines melting time/current data
- for the range of mounting techniques: on clips, in disconnectors, on busbars, on threaded rods, by welding, etc.

Selection guidelines

Ask the right questions to choose the right fuse

What type of application?

- A** : MV protection
- B** : LV protection
- C** : PCB protection
- D** : Power electronics protection
- E** : Forklift battery protection

What type of fuse?

- 1** : Ferrule-style fuses
- 2** : Blade-style fuses
- 3** : Square body fuses
- 4** : Special purpose fuses

What operating class?

- Class gG for general purpose use fuses on distribution circuits
- Class aM for back-up fuses on direct-on-line motors
- Class gR, ultrafast fuses (UR), to break all types of overload and short-circuit current
- Class aR, ultrafast fuses (UR), to break all types of short-circuit current requiring an outside device to clear small overloads

What size fuse?

Diameter in mm for fuses with cylindrical bodies

- 8, 10, 14, 22

Cross section in mm for fuses with rectangular bodies

- 40 x 21 size 000
- 46 x 30 size 00
- 46 x 36 size 0
- 52 x 47 size 1
- 74 x 60 size 2
- 75 x 75 size 3
- 107 x 90 size 4

Cross section in mm for fuses with square bodies

- 40 x 40 size 30
- 51 x 51 size 31
- 60 x 60 size 32
- 75 x 75 size 33

What operating voltage?

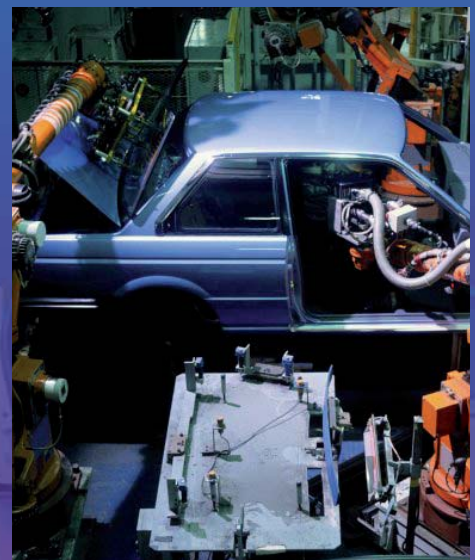
400, 500, 690 ...

What fuse rating in Amperes?

1, 2, 4, 6, 8, 10 ...

What type of blown fuse indication?

- w/o indicator
- with indicator
- with striker



Cross-reference chart at your disposal

If the fuse you've got isn't the Ferraz Shawmut brand, use our cross-reference software SAF/X-Refs on line at the Ferraz Shawmut Web site at:

http://www.ferraz-shawmut.com/xref/index.php?lan_code=gb



The Catalog Number

A new, more explicit, customer focused way of classifying items

Taille 0

0	40	500	K095114C	NH0AM50V40-3	N095232C	NH0AM50V40-4	3
0	50	500	L095115C	NH0AM50V50-3	N095233C	NH0AM50V50-4	3
0	63	500	M095116C	NH0AM50V63-3	X095240C	NH0AM50V63-4	3
0	80	500	P095118C	NH0AM50V80-3	Z095242C	NH0AM50V80-4	3
0	100	500	R095120C	NH0AM50V100-3	A095243C	NH0AM50V100-4	3
0	125	500	T095122C	NH0AM50V125-3	B095244C	NH0AM50V125-4	3
0	160	500	U095124C	NH0AM50V160-3	C095245C	NH0AM50V160-4	3
0	200	500	V095126C	NH0AM50V200-3	D095246C	NH0AM50V200-4	3
0	250	500	W095128C	NH0AM50V250-3	E095247C	NH0AM50V250-4	3
0	315	500	X095130C	NH0AM50V315-3	F095248C	NH0AM50V315-4	3
0	400	500	Y095132C	NH0AM50V400-3	G095249C	NH0AM50V400-4	3
0	500	500	Z095134C	NH0AM50V500-3	H095250C	NH0AM50V500-4	3

At present: K095114C

In the future:

NH0AM50V40-3

Technology
NH =
Niederspannung-
Hochleistung

Size

Curve

**Voltage in
V /10**

**Current in
A**

Miscellaneous:
connections,
indicator,
striker, etc.

NH for Niederspannung-Hochleistung

NH0AM50V40-3



FR for FRench standard

FR14GG69V10



PC for Protection of semi-Conductors

PC30UD69V125TF



MI for MIniatures

MI6SB25V0,5

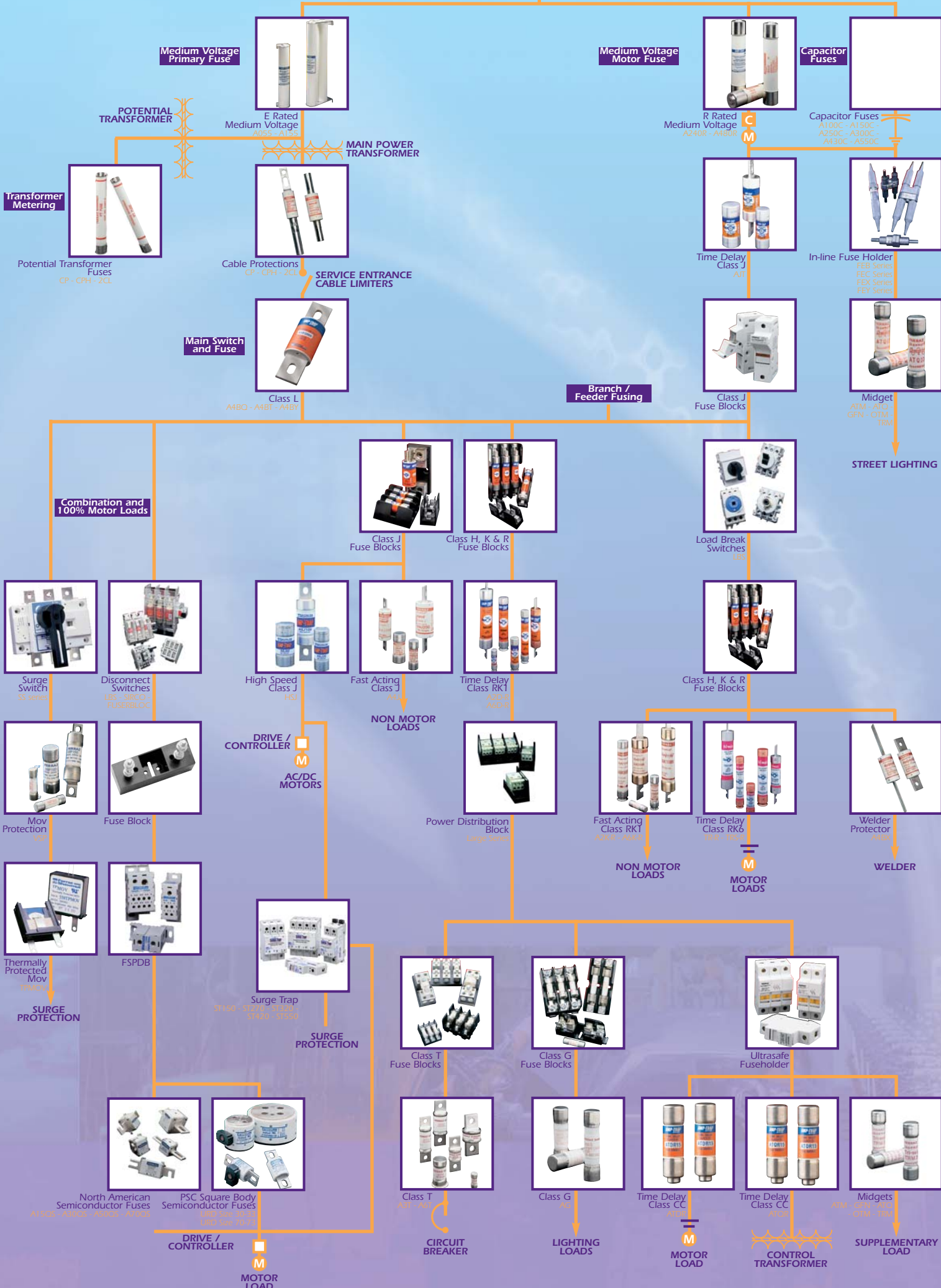


UL-CSA General Purpose Fuses

- **Product Selector** 8
 - **American Power Fuses AMP-TRAP 2000** 9 - 14
 - **American Power Fuses TRI-TRONIC** 15
 - **American Power Fuses AMP-TRAP** 16 - 20
-



Product Selector



AJT (Class J TD)



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	AJT1	X214748	20	AJT20	Z201939
1-1/4	AJT1-1/4	C215765	25	AJT25	X211160
1-1/2	AJT1-1/2	B215258	30	AJT30	W213229
1-6/10	AJT1-6/10	G216275	35	AJT35	M213727
1-8/10	AJT1-8/10	H216782	40	AJT40	C215259
2	AJT2	P219364	45	AJT45	D215766
2-1/4	AJT2-1/4	A200882	50	AJT50	Z217303
2-1/2	AJT2-1/2	T223094	60	AJT60	B218846
2-8/10	AJT2-8/10	M201422	70	AJT70*	L201421*
3	AJT3	Q211683	80	AJT80*	W211159*
3-2/10	AJT3-2/10	L212714	90	AJT90*	V212193*
3-1/2	AJT3-1/2	W212194	100	AJT100*	B215764*
4	AJT4	W214241	110	AJT110*	F216780*
4-1/2	AJT4-1/2	Y214749	125	AJT125*	A217810*
5	AJT5	H216276	150	AJT150*	Y218843*
5-6/10	AJT5-6/10	J216783	175	AJT175*	K219889*
6	AJT6	D217813	200	AJT200*	Y200880*
6-1/4	AJT6-1/4	P218329	225	AJT225*	V211158*
7	AJT7	Q219365	250	AJT250*	K212713*
8	AJT8	M219891	300	AJT300*	L213726*
9	AJT9	D222574	350	AJT350*	W214747*
10	AJT10	Y217302	400	AJT400*	G216781*
12	AJT12	C217812	450	AJT450*	M218327*
15	AJT15	N218328	500	AJT500*	N219363*
17-1/2	AJT17-1/2	A218845	600	AJT600*	C222573*

*For optional indicator/switch mount add EI. For Example: AJT100EI. See table below
 Note: Indicator not available for rating 1A to 7A.

Recommended Fuse Blocks With Box Connectors



Fuse Rating	Cat. Number 1 Pole	600V or less		
		Ref. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 3 Pole
0-30	US3J11	M212922	US3J31	K214967
31-60	US6J11	F222047	US6J31	M211381
61-100	61036J	Z201640	61038J	G212917
101-200	62001J	D214455	62003J	E214962
201-400	64031J	X218543	64033J	S219068
401-600	6631J	P201125	6633J	A201641

A variety of pole configurations and termination provisions is available.

Ratings

- AC: 1 to 600A
 600VAC, 200kA I.R. (self certified for 600VAC, 300kA I.R., UL witnessed)
 DC: 1 to 600A
 500VDC, 100kA I.R.

Highlights

- Smart Spot Indicator
- Time Delay
- Highly Current Limiting
- DC Ratings
- Optional Mechanical Indicator (70 to 600A fuses)

Applications

- Motor Circuits
- Mains
- Feeders
- Branch Circuits
- Lighting, Heating and General Loads

- Transformers
- Control Panels
- Circuit Breaker Back-up
- Bus Duct
- Load Centers

Approvals

- AJT (1-600):
- UL Listed to Standard 248-8
 - DC Listed to UL Standard 198L
 - CSA Certified to Standard C22.2 No. 248.8
 - IEC 269-2-1
- AJT (70-600) EI:
- UL Component Recognized
 - DC Tested to UL Standard 198L

A4BQ (Class L TD)

Ampere Rating	Catalog Number	Reference Number
100	A4BQ100	J215771
150	A4BQ150	X218336
200	A4BQ200	L222581
250	A4BQ250	H200889
300	A4BQ300	F201945
350	A4BQ350	Y211690
400	A4BQ400	E213237
450	A4BQ450	D214248
500	A4BQ500	F214756
600	A4BQ600	K215772
601	A4BQ601	H217311
650	A4BQ650	M217821
700	A4BQ700	Y218337
750	A4BQ750	K218854
800	A4BQ800	Z219373
900	A4BQ900	W219899
1000	A4BQ1000	P216282
1200	A4BQ1200	R216790
1350	A4BQ1350	G217310
1400	A4BQ1400	L217820
1500	A4BQ1500	J218853
1600	A4BQ1600	Y219372
1800	A4BQ1800	V219898
2000	A4BQ2000	B223101
2500	A4BQ2500	V201429
3000	A4BQ3000	F211168
3500	A4BQ3500	E212202
4000	A4BQ4000	W213735
5000	A4BQ5000	K215266
6000	A4BQ6000	Q216283



Ratings

AC: 100 to 6000A 600VAC, 200k A I.R. (self certified for 600VAC, 300k A I.R., UL witnessed) 4-second delay at 500% rating

Note: 100-600A ratings are non-listed

DC: 601 to 3000A 600VDC, 100kA I.R.

Highlights

- Time Delay
- Industry's Most Current-Limiting Class L Fuse
- Pure Silver Elements
- AC & DC Rated

Applications

- Mains, Feeders
- Large Motors
- Lighting, Heating and General Loads
- Circuit Breaker Back-up
- DC Rated: UPS DC Links, Battery Disconnects, Other DC Applications

Approvals

- UL Listed to Standard 248-10 (601-6000A)
- DC Listed to UL Standard 198L (601-3000A)
- CSA Certified to Standard C22.2 No. 248.10 (601-6000A)



A2D and A6D (Class RK1 TD)



Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V	Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V
1/10	A2D1/10R	A6D1/10R	Q215248	R201932	10	A2D10R	A6D10R	Z216268	G211675
15/100	A2D15/100R	A6D15/100R	M217292	D212707	12	A2D12R	A6D12R	Z216774	M212186
2/10	A2D2/10R	A6D2/10R	J223085	C216271	15	A2D15R	A6D15R	R217802	N213222
3/10	A2D3/10R	A6D3/10R	K212184	G219357	17-1/2	A2D17-1/2R	A6D17-1/2R	C218318	E213720
4/10	A2D4/10R	A6D4/10R	N214740	E201415	20	A2D20R	A6D20R	P200872	C216777
1/2	A2D1/2R	A6D1/2R	T215757	P211153	25	A2D25R	A6D25R	B201412	O217295
6/10	A2D6/10R	A6D6/10R	R218837	N214234	30	A2D30R	A6D30R	B212705	E219884
8/10	A2D8/10R	A6D8/10R	Q200873	D216778	35	A2D35R	A6D35R	L213220	W222567
1	A2D1R	A6D1R	Q218836	M214233	40	A2D40R	A6D40R	R215249	S201933
1-1/8	A2D1-1/8R	A6D1-1/8R	K213219	V222566	45	A2D45R	A6D45R	V215758	Q211154
1-1/4	A2D1-1/4R	A6D1-1/4R	A212704	D219883	50	A2D50R	A6D50R	N217293	E212708
1-4/10	A2D1-4/10R	A6D1-4/10R	B213717	L223087	60	A2D60R	A6D60R	E219355	R214743
1-6/10	A2D1-6/10R	A6D1-6/10R	J214230	R200874	70	A2D70R	A6D70R	N201929	E218320
1-8/10	A2D1-8/10R	A6D1-8/10R	M214739	D201414	75	A2D75R	-	L211150	-
2	A2D2R	A6D2R	P201930	V217805	80	A2D80R	A6D80R	D211672	S218838
2-1/4	A2D2-1/4R	A6D2-1/4R	C219882	T215251	90	A2D90R	A6D90R	J212183	F219356
2-1/2	A2D2-1/2R	A6D2-1/2R	D219354	Q214742	100	A2D100R	A6D100R	P215247	N211152
2-8/10	A2D2-8/10R	A6D2-8/10R	S222564	X215760	110	A2D110R	A6D110R	S215756	F211674
3	A2D3R	A6D3R	C213718	M223088	125	A2D125R	A6D125R	Y216267	L212185
3-2/10	A2D3-2/10R	A6D3-2/10R	E211673	T218839	150	A2D150R	A6D150R	Y216773	C212706
3-1/2	A2D3-1/2R	A6D3-1/2R	M211151	F218321	175	A2D175R	A6D175R	L217291	M213221
4	A2D4R	A6D4R	A216269	H211676	200	A2D200R	A6D200R	Q217801	D213719
4-1/2	A2D4-1/2R	A6D4-1/2R	K214231	S200875	225	A2D225R	A6D225R	B218317	L214232
5	A2D5R	A6D5R	S217803	P213223	250	A2D250R	A6D250R	P218835	P214741
5-6/10	A2D5-6/10R	A6D5-6/10R	A216775	N212187	300	A2D300R	A6D300R	C219353	S215250
6	A2D6R	A6D6R	T222565	V215252	350	A2D350R	A6D350R	B219881	W215759
6-1/4	A2D6-1/4R	A6D6-1/4R	D218319	F213721	400	A2D400R	A6D400R	R222563	B216270
7	A2D7R	A6D7R	K223086	Y215761	450	A2D450R	A6D450R	H223084	B216776
8	A2D8R	A6D8R	C201413	R217296	500	A2D500R	A6D500R	N200871	P217294
9	A2D9R	A6D9R	Q201931	W217806	600	A2D600R	A6D600R	A201411	T217804

Recommended Fuse Blocks With Box Connectors



Fuse Rating	250V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	20306R	20308R	T213411	K215956
31-60	20606R	20608R	B212383	E214939
61-100	21036R	21038R	D201621	M212899
101-200	22001R	22003R	R213915	G214941
201-400	24001R	24003R	J219566	D222022
401-600	2631R	2633R	H214942	P215960
Fuse Rating	600V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	60306R	60308R	H212389	K214438
31-60	60606R	60608R	K212391	M214440
61-100	61036R	61038R	W204788	Z211875
101-200	62001R	62003R	V212906	B213924
201-400	64001R	64003R	D219055	M222030
401-600	6631R	6633R	J216990	E218021

Ratings

A2D AC: 1/10 to 600A 250VAC, 200kA I.R. (self certified for 250VAC, 300kA I.R., UL witnessed)
 A6D AC: 1/10 to 600A 600VAC, 200kA I.R. (self certified for 600VAC, 300kA I.R.)

Highlights

- SmartSpot Indicator
- Time Delay
- Current Limiting
- Plated Terminals

Applications

- Motors
- Safety Switches
- Transformers

- Branch Circuit Protection
- Disconnects
- Control Panels
- All General-purpose Circuits

Approvals

- UL Listed to Standard 248-12
- CSA Certified to Standard C22.2 No. 248.12

ATDR (Class CC TD)

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1/4	ATDR1/4	W200855	4	ATDR4	V217276
1/2	ATDR1/2	Q223068	4-1/2	ATDR4-1/2	Z217786
8/10	ATDR8/10	K201397	5	ATDR5	K218302
1	ATDR1	T217275	6/10	ATDR5-6/10	Z218821
1-1/8	ATDR1-1/8	Y218820	6	ATDR6	L219338
1-1/4	ATDR1-1/4	J218301	6-1/4	ATDR6-1/4	L219867
1-4/10	ATDR1-4/10	K219337	7	ATDR7	A222548
1-1/2	ATDR1-1/2	Y217785	7-1/2	ATDR7-1/2	R223069
1-6/10	ATDR1-6/10	K219866	8	ATDR8	X200856
1-8/10	ATDR1-8/10	Z222547	9	ATDR9	Y201915
2	ATDR2	S212168	10	ATDR10	J201396
2-1/4	ATDR2-1/4	T213204	12	ATDR12	X201914
2-1/2	ATDR2-1/2	J212689	15	ATDR15	V211135
2-8/10	ATDR2-8/10	L213703	7-1/2	ATDR17-1/2	L211656
3	ATDR3	Y215232	20	ATDR20	R214214
3-2/10	ATDR3-2/10	J216254	25	ATDR25	V214723
3-1/2	ATDR3-1/2	C215742	30	ATDR30	G216758



Recommended Fuse Blocks With Box Connectors

Number of Poles	Catalog Number				Reference Number			
	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector
ADDER		30310R	30320R	30350R		W204857	Z217510	N213429
1	USCC1I	30311R	30321R	30351R	X213943	R212397	M218534	G213929
2	USCC2I	30312R	30322R	30352R	D217008	Z212910	Y219579	V214447
3	USCC3I	30313R	30323R	30353R	Y218038	M213428	B222779	X214955



Ratings

AC: 1/4 to 30A 600VAC, 200kA I.R.
DC: 1/4 to 30A 300VDC, 100kA I.R.

Highlights

- Time Delay
- Best Choice for Small Motor Protection
- Highly Current-Limiting
- AC & DC Rated

Applications

- Small Motors
- Contactors
- Lighting, Heating and General Loads
- Branch Circuit Protector

Approvals

- UL Listed to Standard 248-4
- CSA Certified to Standard C22.2 No. 248.4
- DC Listed to UL Standard 198L



ATQR (Class CC TD)



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1/10	ATOR1/10	E201921	2-8/10	ATOR2-8/10	O216260
1/8	ATOR1/8	A212175	3	ATOR3	T218310
15/100	ATOR15/100	S223507	3-2/10	ATOR3-2/10	V219346
3/16	ATOR3/16	J222556	3-1/2	ATOR3-1/2	G218828
2/10	ATOR2/10	O216766	4	ATOR4	S201404
1/4	ATOR1/4	V211664	4-1/2	ATOR4-1/2	F201922
3/10	ATOR3/10	V219875	5	ATOR5	W211665
4/10	ATOR4/10	D211143	5-6/10	ATOR5-6/10	B212176
1/2	ATOR1/2	C211142	6	ATOR6	T212698
6/10	ATOR6/10	V213711	6-1/4	ATOR6-1/4	D213213
3/4	ATOR3/4	A223077	7	ATOR7	B214223
8/10	ATOR8/10	L215750	7-1/2	ATOR7-1/2	E214732
1	ATOR1	F218827	8	ATOR8	H215241
1-1/8	ATOR1-1/8	H222555	9	ATOR9	R216261
1-1/4	ATOR1-1/4	T219874	10	ATOR10	S212697
1-4/10	ATOR1-4/10	Z223076	12	ATOR12	C213212
1-1/2	ATOR1-1/2	T219345	15	ATOR15	T213710
1-6/10	ATOR1-6/10	E200863	17-1/2	ATOR17-1/2	A214222
1-8/10	ATOR1-8/10	R201403	20	ATOR20	D217284
2	ATOR2	D214731	25	ATOR25	H217794
2-1/4	ATOR2-1/4	K215749	30	ATOR30	F200864
2-1/2	ATOR2-1/2	G215240			

Recommended Fuse Blocks With Box Connectors



Number of Poles	Catalog Number				Reference Number			
	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector
ADDER		30310R	30320R	30350R		W204857	Z217510	N213429
1	USCC1I	30311R	30321R	30351R	X213943	R212397	M218534	G213929
2	USCC2I	30312R	30322R	30352R	D217008	Z212910	Y219579	V214447
3	USCC3I	30313R	30323R	30353R	Y218038	M213428	B222779	X214955

Ratings

AC: 1/10 to 30A 600VAC, 200kA I.R.

Highlights

- Time Delay
- Best Choice for Small Transformer Protection
- Most Current-Limiting

Applications

- Control Transformers
- Solenoids
- Inductive Loads
- Lighting, Heating and General-purpose Loads

Approvals

- UL Listed to Standard 248-4
- CSA Certified to Standard C22.2 No. 248.4



TR and TRS (Class RK5 TD)

Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V	Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V
1/10	TR1/10R	TRS1/10R	F222530	W216748	10	TR10R	TRS10R	D200839	N218811
15/100	TR15/100R	TRS15/100R	E201898	F223059	12	TR12R	TRS12R	S201381	B219858
2/10	TR2/10R	TRS2/10R	Z214198	X216749	15	TR15R	TRS15R	D211120	B201389
3/10	TR3/10R	TRS3/10R	C217260	J212160	17-1/2	TR17-1/2R	TRS17-1/2R	S211639	K211126
4/10	TR4/10R	TRS4/10R	Z223053	Y216750	20	TR20R	TRS20R	D214708	P217777
1/2	TR1/2R	TRS1/2R	Y223052	N217776	25	TR25R	TRS25R	G215217	B219329
6/10	TR6/10R	TRS6/10R	R216238	L213197	30	TR30R	TRS30R	F217769	K213196
8/10	TR8/10R	TRS8/10R	T219322	R217779	35	TR35R	TRS35R	F218804	J214207
1	TR1R	TRS1R	Z212151	H212159	40	TR40R	TRS40R	E200840	Q217778
1-1/8	TR1-1/8R	TRS1-1/8R	Q218284	G212158	45	TR45R	TRS45R	F201899	Q218813
1-1/4	TR1-1/4R	TRS1-1/4R	E217768	J211125	50	TR50R	TRS50R	B213188	D201391
1-4/10	TR1-4/10R	TRS1-4/10R	E218803	H213194	60	TR60R	TRS60R	P216742	M214716
1-6/10	TR1-6/10R	TRS1-6/10R	R219320	G214205	70	TR70R	TRS70R	Q219848	Y213691
1-8/10	TR1-8/10R	TRS1-8/10R	S219850	R215732	75	TR75R	TRS75R	E222529	P215730
2	TR2R	TRS2R	J215725	Q222539	80	TR80R	TRS80R	W223050	W216242
2-1/4	TR2-1/4R	TRS2-1/4R	A213187	H214206	90	TR90R	TRS90R	B200837	L217774
2-1/2	TR2-1/2R	TRS2-1/2R	Q212672	J213195	100	TR100R	TRS100R	K216738	D214202
2-8/10	TR2-8/10R	TRS2-8/10R	S213686	S215733	110	TR110R	TRS110R	B218800	K215220
3	TR3R	TRS3R	T219851	P215224	125	TR125R	TRS125R	N219317	N215729
3-2/10	TR3-2/10R	TRS3-2/10R	N216741	N201906	150	TR150R	TRS150R	P219847	S216745
3-1/2	TR3-1/2R	TRS3-1/2R	Q216237	M200847	175	TR175R	TRS175R	D222528	K217773
4	TR4R	TRS4R	A212152	D219860	200	TR200R	TRS200R	V223049	K218808
4-1/2	TR4-1/2R	TRS4-1/2R	G222531	A216246	225	TR225R	TRS225R	A200836	Y219855
5	TR5R	TRS5R	E214709	M211128	250	TR250R	TRS250R	P201378	L222535
5-6/10	TR5-6/10R	TRS5-6/10R	R212673	H223061	300	TR300R	TRS300R	B201895	J200844
6	TR6R	TRS6R	S218286	V215735	350	TR350R	TRS350R	A211117	J201902
6-1/4	TR6-1/4R	TRS6-1/4R	S218286	K212161	400	TR400R	TRS400R	P211636	G211123
7	TR7R	TRS7R	G218805	Z216751	450	TR450R	TRS450R	N218282	E212156
8	TR8R	TRS8R	V219852	R218814	500	TR500R	TRS500R	C218801	W212677
9	TR9R	TRS9R	H222532	S222541	600	TR600R	TRS600R	P219318	F213192



Recommended Fuse Blocks With Box Connectors

Fuse Rating	250V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	20306R	20308R	T213411	K215956
31-60	20606R	20608R	B212383	E214939
61-100	21036R	21038R	D201621	M212899
101-200	22001R	22003R	R213915	G214941
201-400	24001R	24003R	J219566	D222022
401-600	2631R	2633R	H214942	P215960

Fuse Rating	600V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	60306R	60308R	H212389	K214438
31-60	60606R	60608R	K212391	M214440
61-100	61036R	61038R	W204788	Z211875
101-200	62001R	62003R	V212906	B213924
201-400	64001R	64003R	D219055	M222030
401-600	6631R	6633R	J216990	E218021



Ratings

TR
AC: 1/10 to 600A 250VAC, 200kA I.R.
DC: 1/10 to 2 8/10A and 35 to 400A, 250VD, 20 A.I.R.
3 to 30A & 450 to 600A, 160VDC, 20kA I.R.
TRS
AC: 1/10 to 600A, 600VAC, 200kA I.R.
DC: 1/10 to 12A, 600VDC, 20kA I.R.

70 to 600A, 600VDC, 100kA I.R.
15 to 60A, 300VDC, 20kA I.R.

Highlights

- Time Delay
- Current Limiting
- AC & DC Rated

Applications

- Motor Circuits
- Mains
- Feeders

- Branch Circuits
- Transformers
- Service Entrance Equipment
- General-purpose Protection

Approvals

- UL Listed to Standard 248-12
- CSA Certified to Standard C22.2 No. 248.12
- DC Listed to UL Standard



TRS - RDC (DC Rated TD)



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	TRS1RDC	Z212680	50	TRS50RDC	P201907
2	TRS2RDC	G223060	60	TRS60RDC	O215225
3	TRS3RDC	T215734	70	TRS70RDC	E214203
5	TRS5RDC	D211649	80	TRS80RDC	H217265
6	TRS6RDC	B216247	90	TRS90RDC	X218290
8	TRS8RDC	E219861	100	TRS100RDC	G214711
10	TRS10RDC	A219328	125	TRS125RDC	V216241
12	TRS12RDC	P222538	150	TRS150RDC	G217264
15	TRS15RDC	M201905	175	TRS175RDC	W218289
20	TRS20RDC	P218812	200	TRS200RDC	X219325
30	TRS30RDC	C213695	250	TRS250RDC	D223057
35	TRS35RDC	L214715	300	TRS300RDC	Y201386
40	TRS40RDC	B218294	400	TRS400RDC	Y211644
45	TRS45RDC	C219330			

Ratings

DC: 1 to 30A 300VDC, 20kA.I.R.
(Consult Factory for Availability)
DC: 35 to 400A 600VDC, 20kA I.R.

Highlights

- Time Delay
- DC Rated

Applications

- Mine Circuits
- Trailing Cables
- Pump Motors
- Rail Heaters

Approvals

- MSHA Approval No. 28-26-0



A4J (Class J FA)

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1	A4J1	V217299	90	A4J90	R214237
3	A4J3	J219888	100	A4J100	N223089
6	A4J6	T211157	110	A4J110	V200877
10	A4J10	Z217809	125	A4J125	V201935
15	A4J15	K218325	150	A4J150	R211155
20	A4J20	X218842	175	A4J175	Q212189
25	A4J25	L219361	200	A4J200	G212710
30	A4J30	A222571	225	A4J225	X215254
35	A4J35	Q223091	250	A4J250	T217298
40	A4J40	X200879	300	A4J300	K219360
45	A4J45	J201419	350	A4J350	H219887
50	A4J50	X201937	400	A4J400	Z222570
60	A4J60	M211680	450	A4J450	W200878
70	A4J70	H212711	500	A4J500	W201936
80	A4J80	J213724	600	A4J600	S211156



Recommended Fuse Blocks With Box Connectors

Fuse Rating	600V or less			
	Cat. Number 1 Pole	Ref. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 3 Pole
0-30	US3J11	M212922	US3J31	K214967
31-60	US6J11	F222047	US6J31	M211381
61-100	61036J	Z201640	61038J	G212917
101-200	62001J	D214455	62003J	E214962
201-400	64031J	X218543	64033J	S219068
401-600	6631J	P201125	6633J	A201641



Ratings

AC: 1 to 600A
600VAC, 200kA I.R.
DC: 1 to 600A
300VDC, 20kA I.R.

Highlights

- Fast Acting
- Very Current-Limiting
- DC Ratings

Applications

- Capacitors
- Loadcenters

- Panelboards
- Switchboards
- Bus Duct
- Feeder Circuits
- Circuit Breakers
- Lighting, Heating, and General Loads

Approvals

- UL Listed to Standard 248-8.
- CSA Certified to Standard C22.2 No. 248.8
- DC Tested to UL198L limits
- EC 269-2-1



A4BY (Class L)



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
200	A4BY200	P217823	1201	A4BY1201	X212724
250	A4BY250	P222584	1350	A4BY1350	G213239
300	A4BY300	J201948	1400	A4BY1400	Y213737
350	A4BY350	Y212725	1500	A4BY1500	H214758
400	A4BY400	Z213738	1600	A4BY1600	L215267
500	A4BY500	T216286	1601	A4BY1601	T216792
600	A4BY600	Q217824	1800	A4BY1800	K217313
601	A4BY601	C219376	2000	A4BY2000	A218339
650	A4BY650	Z219902	2001	A4BY2001	M218856
700	A4BY700	Q222585	2500	A4BY2500	L200892
750	A4BY750	M200893	3000	A4BY3000	J211171
800	A4BY800	Z201433	3001	A4BY3001	H212205
801	A4BY801	K211172	3500	A4BY3500	H213240
900	A4BY900	C211694	4000	A4BY4000	G214251
1000	A4BY1000	X201431	4001	A4BY4001	J214759
1100	A4BY1100	H211170	5000	A4BY5000	V216793
1200	A4BY1200	A211692	6000	A4BY6000	N218857

Ratings

AC: 200 to 6,000A
600VAC, 200kA I.R.
DC: 200 to 2500A
300VDC, 100kA I.R.

Highlights

- Current-Limiting
- 4-Second Time Delay
- DC Ratings
- Uniform Characteristics in all Ampere Ratings

Applications

- Mains, Feeders
- Circuit Breakers
- Loadcenters
- Panelboards
- Switchboards
- Metering Centers

Approvals

- UL Listed to Standard 248-10 (601-6000A)
- CSA Certified to Standard C22.2 No. 248.10 (601-6000A)
- DC Tested to UL 198L limits (601-6000A)

A4BT (Class L)



Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
200	A4BT200	W212723	800	A4BT800	N222583
250	A4BT250	E214249	900	A4BT900	K200891
300	A4BT300	G214757	1000	A4BT1000	M222582
350	A4BT350	L215773	1100	A4BT1100	J200890
400	A4BT400	R216284	1200	A4BT1200	W201430
500	A4BT500	J217312	1400	A4BT1400	G201946
600	A4BT600	N217822	1500	A4BT1500	G211169
601	A4BT601	Z218338	1600	A4BT1600	Z211691
650	A4BT650	L218855	1800	A4BT1800	F212203
700	A4BT700	A219374	2000	A4BT2000	F213238
750	A4BT750	X219900			

Ratings

AC: 200 to 2,000A
600VAC, 200kA I.R.
DC: 200 to 2,000A
500VDC, 100kA I.R.

Highlights

- Current-Limiting
- Full 10-Second Delay
- DC Ratings
- Uniform Characteristics in all Ampere Ratings

Applications

- Motors
- Motor Controllers
- Transformers
- Panelboards
- Mains
- Feeders

Approvals

- UL Listed to Standard 248-10 (601-2000A)
- CSA Certified to Standard C22.2 No. 248.10 (601-2000A)
- DC Tested to UL 198L limits (601-2000A)

A3T and A6T (Class T FA)

Ampere Rating	Catalog Number		Reference Number		Ampere Rating	Catalog Number		Reference Number	
	300V	600V	3000V	600V		300V	600V	300V	600V
1	A3T1	A6T1	Q212212	L219384	110	A3T110	A6T110	G218345	K219383
3	A3T3	A6T3	R214766	H201441	125	A3T125	A6T125	H219381	F219908
6	A3T6	A6T6	Y217831	S213249	150	A3T150	A6T150	D219906	Y222592
10	A3T10	A6T10	E212731	G219909	175	A3T175	A6T175	W222590	N223112
15	A3T15	A6T15	Q213247	Z222593	200	A3T200	A6T200	L223110	V200900
20	A3T20	A6T20	G213745	P223113	225	A3T225	A6T225	S200898	G201440
25	A3T25	A6T25	P214258	W200901	250	A3T250	A6T250	E201438	Q201954
30	A3T30	A6T30	V215275	R201955	300	A3T300	A6T300	N201952	S211179
35	A3T35	A6T35	W215782	T211180	350	A3T350	A6T350	Q211177	K211701
40	A3T40	A6T40	B216293	L211702	400	A3T400	A6T400	H211699	R212213
45	A3T45	A6T45	C216800	S212214	450	A3T450	A6T450	P212211	F212732
50	A3T50	A6T50	T217321	G212733	500	A3T500	A6T500	D212730	R213248
60	A3T60	A6T60	J218347	J213747	600	A3T600	A6T600	P213246	H213746
70	A3T70	A6T70	F213744	Q214259	700	A3T700	A6T700	N214257	S214767
80	A3T80	A6T80	Q214765	W215276	800	A3T800	A6T800	T215274	D216801
90	A3T90	A6T90	V215781	V217322	1000	A3T1000	-	W217829	-
100	A3T100	A6T100	R217319	W218864	1200	A3T1200	-	T218862	-

Ratings

A3T

AC: 1 to 1200A 300VAC,
200kA I.R.

DC: 1 to 1200A 160VDC,
50kA I.R.

A6T

AC: 1 to 800A 600VAC,
200kA I.R.

DC: 1 to 800A 300VDC,
100kA I.R.

Highlights

- Fast Acting
- Extremely Current Limiting
- Small Physical Size
- DC Ratings

Applications

- Loadcenters
- Panelboards
- Switchboards
- Circuit Breakers
- Metering Centers

Approvals

- UL Listed to Standard 248-15
- CSA Certified to Standard C22.2 No. 248.15
- DC Tested to UL Standard 198L



A2K and A6K (Class RK1FA)



Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V	Ampere Rating	Catalog Number 250V	Catalog Number 600V	Reference Number 250V	Reference Number 600V
1	A2K1R	A6K1R	M215245	A219880	70	A2K70R	A6K70R	H211147	K217290
3	A2K3R	A6K3R	N217799	M201928	80	A2K80R	A6K80R	A211669	P217800
4	-	A6K4R	-	H212182	90	A2K90R	A6K90R	F212180	A218316
5	A2K5R	A6K5R	P222561	J213218	100	A2K100R	A6K100R	L215244	Y201409
6	A2K6R	A6K6R	L200869	H214229	110	A2K110R	A6K110R	V216264	L201927
8	-	A6K8R	-	L214738	125	A2K125R	A6K125R	V216770	J211148
10	A2K10R	A6K10R	G213216	N218834	150	A2K150R	A6K150R	H217288	B211670
12	A2K12R	-	F214227	-	175	A2K175R	A6K175R	M217798	G212181
15	A2K15R	A6K15R	J214736	B219352	200	A2K200R	A6K200R	Y218314	Y212702
20	A2K20R	A6K20R	Q215754	Q222562	225	A2K225R	A6K225R	L218832	H213217
25	A2K25R	A6K25R	W216265	G223083	250	A2K250R	A6K250R	Z219350	Z213715
30	A2K30R	A6K30R	W216771	M200870	300	A2K300R	A6K300R	Y219878	G214228
35	A2K35R	A6K35R	J217289	Z201410	350	A2K350R	A6K350R	N222560	K214737
40	A2K40R	A6K40R	Z218315	K211149	400	A2K400R	A6K400R	E223081	N215246
45	A2K45R	A6K45R	M218833	C211671	450	A2K450R	A6K450R	K200868	R215755
50	A2K50R	A6K50R	Z219879	Z212703	500	A2K500R	A6K500R	X201408	X216266
60	A2K60R	A6K60R	F223082	A213716	600	A2K600R	A6K600R	K201926	X216772

Recommended Fuse Blocks With Box Connectors



Fuse Rating	250V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	20306R	20308R	T213411	K215956
31-60	20606R	20608R	B212383	E214939
61-100	21036R	21038R	D201621	M212899
101-200	22001R	22003R	R213915	G214941
201-400	24001R	24003R	J219566	D222022
401-600	2631R	2633R	H214942	P215960
Fuse Rating	600V			
	Cat. Number 1 Pole	Cat. Number 3 Pole	Ref. Number 1 Pole	Ref. Number 3 Pole
0-30	60306R	60308R	H212389	K214438
31-60	60606R	60608R	K212391	M214440
61-100	61036R	61038R	W204788	Z211875
101-200	62001R	62003R	V212906	B213924
201-400	64001R	64003R	D219055	M222030
401-600	6631R	6633R	J216990	E218021

Ratings

A2K
 AC: 1 to 600A 250VAC, 200kA I.R.
 DC: 1 to 600A 250VDC, 200kA I.R.
 A6K
 AC: 1 to 600A 600VAC, 200kA I.R.
 DC: 1 to 600A 300VDC, 200kA I.R.

Highlights

- Highly Current-Limiting
- Fast Acting
- Rejection Style

Applications

- Loadcenters
- Panelboards
- Switchboards
- Bus Duct
- Feeder Circuits
- Non-inductive Loads
- Lighting Circuits

Approvals

- UL Listed to Standard 248-12
- CSA Certified to Standard C22.2 No. 248.12
- DC tested to UL Standard 198L

ATMR (Class CC)

Ampere Rating	Catalog Number	Reference Number	Ampere Rating	Catalog Number	Reference Number
1/10	ATMR1/10	C217789	3-1/2	ATMR3-1/2	Y213208
1/8	ATMR1/8	P219341	4	ATMR4	G215746
2/10	ATMR2/10	B201918	5	ATMR5	M216257
1/4	ATMR1/4	C218824	6	ATMR6	L216762
3/10	ATMR3/10	W214218	7	ATMR7	Z217280
1/2	ATMR1/2	N218305	8	ATMR8	D217790
3/4	ATMR3/4	Z214727	9	ATMR9	P218306
1	ATMR1	L216256	10	ATMR10	P219870
1-1/4	ATMR1-1/4	Y217279	12	ATMR12	D222551
1-1/2	ATMR1-1/2	K216761	15	ATMR15	V223072
2	ATMR2	A200859	20	ATMR20	Z211139
2-1/2	ATMR2-1/2	N201400	25	ATMR25	O211660
3	ATMR3	N212693	30	ATMR30	C215236



Recommended Fuse Blocks With Box Connectors

Number of Poles	Catalog Number				Reference Number			
	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector	Ultrasafe Indicating Fuse Holder	Screw Connector w/ Double Quick Connects	Pressure Plate Connector w/ Double Quick Connects	Copper Box Connector
ADDER		30310R	30320R	30350R		W204857	Z217510	N213429
1	USCC1I	30311R	30321R	30351R	X213943	R212397	M218534	G213929
2	USCC2I	30312R	30322R	30352R	D217008	Z212910	Y219579	V214447
3	USCC3I	30313R	30323R	30353R	Y218038	M213428	B222779	X214955



Ratings

AC: 1/10 to 30A 600VAC, 200kA I.R.

Highlights

- Fast Acting
- Very Current-Limiting

Applications

- Control Circuits
- Lighting
- General Loads
- Branch Circuit Protection

Approvals

- UL Listed to Standard 248-4
- CSA Certified to Standard C22.2No. 248.4



IEC General Purpose Fuses

▪ gG ferrule-style fuses	23 - 25
▪ aM ferrule-style fuses	26 - 27
▪ Modulostar	28 - 32
▪ ITC switch-disconnectors	33
▪ NH 690V gG/aM fuses	34 - 39
▪ Fuse holders for blade-style fuses	40
▪ NH 690V gG/aM fuses with striker	41 - 42
▪ Fuse holders for blade-style fuses with striker	43
▪ Master Fuse	45
▪ ITC for NH fuses	46 - 49
▪ DIN D gG fuses	50 - 53
▪ DIN DO gG fuses	54 - 62
▪ IT switch disconnectors	63 - 66
▪ FSPDB connections	67
▪ gF/gG residential-use fuses	68 - 69

gG ferrule-style fuses

gG 8.5 x 31.5



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Voltage (V)	Ref. number with striker	Cat.number with striker	Pckg
8,5 x 31,5	0,5	400	P218191J	FR8GG40V0.5		-				10
8,5 x 31,5	1	400	C218709J	FR8GG40V1		-				10
8,5 x 31,5	2	400	Q219227J	FR8GG40V2	B222204J	FR8GG40V2I				10
8,5 x 31,5	4	400	W222958J	FR8GG40V4	X222959J	FR8GG40V4I				10
8,5 x 31,5	6	400	A211025J	FR8GG40V6	V201291J	FR8GG40V6I				10
8,5 x 31,5	8	400	B213096J	FR8GG40V8	B211026J	FR8GG40V8I				10
8,5 x 31,5	10	400	A214613J	FR8GG40V10	A212060J	FR8GG40V10I				10
8,5 x 31,5	12	400	R216146J	FR8GG40V12	C213097J	FR8GG40V12I				10
8,5 x 31,5	16	400	P216650J	FR8GG40V16	Y214105J	FR8GG40V16I				10
8,5 x 31,5	20	400	F217677J	FR8GG40V20	J215127J	FR8GG40V20I				10
8,5 x 31,5	25	400	D218710J	FR8GG40V25	S216147J	FR8GG40V25I				10
8,5 x 31,5	Neutral		X211045J	FRN832	X211045J	FRN832				10

gG 10.3 x 38



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Voltage (V)	Ref. number with striker	Cat.number with striker	Pckg
10,3 x 38	1	690	R302787J	FR10GG69V1						10
10,3 x 38	2	690	S302788J	FR10GG69V2						10
10,3 x 38	4	690	T302789J	FR10GG69V4						10
10,3 x 38	6	690	V302790J	FR10GG69V6						10
10,3 x 38	8	690	W302791J	FR10GG69V8						10
10,3 x 38	10	690	X302792J	FR10GG69V10						10
10,3 x 38	12	690	Y302793J	FR10GG69V12						10
10,3 x 38	16	690	Z302794J	FR10GG69V16						10
10,3 x 38	0,5	500	C211027J	FR10GG50V0.5						10
10,3 x 38	1	500	B212061J	FR10GG50V1						10
10,3 x 38	2	500	D213098J	FR10GG50V2	S216653J	FR10GG50V2I	400	G083703J	FR10GG40V2P	10
10,3 x 38	4	500	X213598J	FR10GG50V4	E217170J	FR10GG50V4I	400	D084758J	FR10GG40V4P	10
10,3 x 38	6	500	K215128J	FR10GG50V6	T218195J	FR10GG50V6I	400	Y084799J	FR10GG40V6P	10
10,3 x 38	8	500	D217169J	FR10GG50V10	V219231J	FR10GG50V8I	400	F083955J	FR10GG40V8P	10
10,3 x 38	10	500	S218194J	FR10GG50V10	E222207J	FR10GG50V10I	400	A084801J	FR10GG40V10P	10
10,3 x 38	12	500	W219761J	FR10GG50V12	H200751J	FR10GG50V12I	400	G083956J	FR10GG40V12P	10
10,3 x 38	16	500	G200750J	FR10GG50V16	H201809J	FR10GG50V16I	400	X084798J	FR10GG40V16P	10
10,3 x 38	20	500	D211028J	FR10GG50V20	X211551J	FR10GG50V20I	400	Z084800J	FR10GG40V20P	10
10,3 x 38	25	500	E213099J	FR10GG50V25	W212585J	FR10GG50V25I	250	H083957J	FR10GG25V25P	10
10,3 x 38	32	400	A214107J	FR10GG40V32	Z213600J	FR10GG40V32I	250	E083954J	FR10GG25V32P	10
10,3 x 38	Neutral		R211569J	FRN1038	R211569J	FRN1038				10



gG ferrule-style fuses

gG 14 x 51



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Voltage (V)	Ref. number with striker	Cat.number with striker	Pckg
14 x 51	1	690	K218716J	FR14GG69V1	-	-	500	-	-	10
14 x 51	2	690	Y219234J	FR14GG69V2	C201298J	FR14GG69V2I	500	J211033J	FR14GG50V2P	10
14 x 51	4	690	A219765J	FR14GG69V4	H211032J	FR14GG69V4I	500	H212067J	FR14GG50V4P	10
14 x 51	6	690	H222210J	FR14GG69V6	G212066J	FR14GG69V6I	500	G214113J	FR14GG50V6P	10
14 x 51	8	690	D222965J	FR14GG69V8	K213104J	FR14GG69V8I	500	R215134J	FR14GG50V8P	10
14 x 51	10	690	L200754J	FR14GG69V10	H214620J	FR14GG69V10I	500	Z216153J	FR14GG50V10P	10
14 x 51	12	690	L201812J	FR14GG69V12	R215640J	FR14GG69V12I	500	L217176J	FR14GG50V12P	10
14 x 51	16	690	A211554J	FR14GG69V16	X216657J	FR14GG69V16I	500	Z218200J	FR14GG50V16P	10
14 x 51	20	690	Z212588J	FR14GG69V20	N217684J	FR14GG69V20I	500	B219237J	FR14GG50V20P	10
14 x 51	25	690	C213603J	FR14GG69V25	M218718J	FR14GG69V25I	500	L222213J	FR14GG50V25P	10
14 x 51	32	500	W216656J	FR14GG50V32	C219767J	FR14GG50V32I	500	P200757J	FR14GG50V32P	10
14 x 51	40	500	X218198J	FR14GG50V40	F222967J	FR14GG50V40I	500	P201815J	FR14GG50V40P	10
14 x 51	50	400	Z219235J	FR14GG40V50	D201299J	FR14GG40V50I	400	D211557J	FR14GG40V50P	10
14 x 51	Neutral		M212600J	FRN1451	M212600J	FRN1451		M212600J	FRN1451	10
Fuse extractor			M097554A	PMCP 14	M097554A	PMCP 14		M097554A	PMCP 14	1

gG 22 x 58

Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Voltage (V)	Ref. number with striker	Cat.number with striker	Pckg
22 x 58	2	690	F219241J	FR22GG69V2	-	-		-	-	10
22 x 58	4	690	H219772J	FR22GG69V4	Q211039J	FR22GG69V4I	690	R214628J	FR22GG69V4P	10
22 x 58	6	690	P222216J	FR22GG69V6	P212073J	FR22GG69V6I	690	A215648J	FR22GG69V6P	10
22 x 58	8	690	L222972J	FR22GG69V8	R213110J	FR22GG69V8I	690	F216665J	FR22GG69V8P	10
22 x 58	10	690	T200761J	FR22GG69V10	N214119J	FR22GG69V10I	690	W217691J	FR22GG69V10P	10
22 x 58	12	690	J201304J	FR22GG69V12	Y215140J	FR22GG69V12I	690	W218726J	FR22GG69V12P	10
22 x 58	16	690	S201818J	FR22GG69V16	D216157J	FR22GG69V16I	690	L219775J	FR22GG69V16P	10
22 x 58	20	690	P211038J	FR22GG69V20	R217181J	FR22GG69V20I	690	P222975J	FR22GG69V20P	10
22 x 58	25	690	N212072J	FR22GG69V25	F218206J	FR22GG69V25I	690	M201307J	FR22GG69V25P	10
22 x 58	32	690	F212594J	FR22GG69V32	H219243J	FR22GG69V32I	690	S211041J	FR22GG69V32P	10
22 x 58	40	690	J213609J	FR22GG69V40	R222218J	FR22GG69V40I	690	R212075J	FR22GG69V40P	10
22 x 58	50	690	P214626J	FR22GG69V50	W200763J	FR22GG69V50I	690	M213612J	FR22GG69V50P	10
22 x 58	63	690	Y215646J	FR22GG69V63	V201820J	FR22GG50V63I	500	S214629J	FR22GG50V63P	10
22 x 58	80	690	Q217180J	FR22GG69V80	K211563J	FR22GG50V80I	500	F216159J	FR22GG50V80P	10
22 x 58	100	500	E218205J	FR22GG50V100	H212596J	FR22GG50V100I	500	T217183J	FR22GG50V100P	10
22 x 58	125	400	J219773J	FR22GG40V125	L213611J	FR22GG40V125I	400	H218208J	FR22GG40V125P	10
22 x 58	Neutral		R213616J	FRN2258	R212616J	FRN2258		R213616J	FRN2258	10
Fuse extractor			K100036A	PMCP20+22	K100036A	PMCP20+22		K100036A	PMCP20+22	1

gG ferrule-style fuses



gG ferrule-style fuses

Functions

gG curve industrial fuse (black marking) – NF EN 60269-1 and 2-1 compliant.

Protection for power cables and equipment except motors.

Selective coordination between two fuses two ratings apart (e.g. 160A and 100A).

Breaking capacity: 20 kA for 8.5 x 31.5 fuses - 80 to 120 kA for other sizes at rated voltage.

Applications

Protection from overloads and short circuits at all levels in power distribution.

Mains, branch circuits, service entrance equipment.



for sizes 10,
14 and 22

To select a fuse holder, fuse disconnect or fuse switch-disconnector for our ferrule-style fuses, turn to pages 17 to 22.

For further information on our ferrule fuse lines, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

**under the heading IEC general purpose fuses
> ferrule fuses**



aM 8.5 x 31,5

Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Voltage (V)	Ref. number with striker	Cat.number with striker	Pckg
8,5 x 31,5	1	400	C217168J	FR8AM40V1						10
8,5 x 31,5	2	400	R218193J	FR8AM40V2						10
8,5 x 31,5	4	400	S219229J	FR8AM40V4						10
8,5 x 31,5	6	400	C222205J	FR8AM40V6						10
8,5 x 31,5	8	400	F200749J	FR8AM40V8						10
8,5 x 31,5	10	400	W201292J	FR8AM40V10						10
8,5 x 31,5	Neutral		X211045J	FRN832						10

aM 10.3 x 38

10,3 x 38	1	690	H302779J	FR10AM69V1						10
10,3 x 38	2	690	J302780J	FR10AM69V2						10
10,3 x 38	4	690	K302781J	FR10AM69V4						10
10,3 x 38	6	690	L302782J	FR10AM69V6						10
10,3 x 38	8	690	M302783J	FR10AM69V8						10
10,3 x 38	10	690	N302784J	FR10AM69V10						10
10,3 x 38	12	690	P302785J	FR10AM69V12						10
10,3 x 38	0,16	500	E214617J	FR10AM50V0.16	-					10
10,3 x 38	0,25	500	M215130J	FR10AM50V0.25	-					10
10,3 x 38	0,5	500	W216150J	FR10AM50V0.5	-					10
10,3 x 38	1	500	F217171J	FR10AM50V1	X219233J	FR10AM50V1I				10
10,3 x 38	2	500	H218714J	FR10AM50V2	G222209J	FR10AM50V2I	400	Z084984J	FR10AM40V2P	10
10,3 x 38	4	500	W219232J	FR10AM50V4	K200753J	FR10AM50V4I	400	Y085259J	FR10AM40V4P	10
10,3 x 38	6	500	F222208J	FR10AM50V6	K201811J	FR10AM50V6I	400	W085257J	FR10AM40V6P	10
10,3 x 38	8	500	Z201295J	FR10AM50V10	Z211553J	FR10AM50V10I	400	A084985J	FR10AM40V8P	10
10,3 x 38	10	500	Y211552J	FR10AM50V10	H213102J	FR10AM50V10I	400	B084986J	FR10AM40V10P	10
10,3 x 38	12	500	A213601J	FR10AM50V12	D214110J	FR10AM50V12I	400	X085258J	FR10AM40V12P	10
10,3 x 38	16	500	F214618J	FR10AM50V16	P215132J	FR10AM50V16I	400	C084757J	FR10AM40V16P	10
10,3 x 38	20	500	X216151J	FR10AM50V20	V216655J	FR10AM40V20I	400	V085256J	FR10AM40V20P	10
10,3 x 38	25	400	G217172J	FR10AM40V25	L217682J	FR10AM40V25I	250	A076038J	FR10AM25V25P	10
10,3 x 38	32	400	J218715J	FR10AM40V32	-		250	B076039J	FR10AM25V32P	10
10,3 x 38	Neutral		R211569J	FRN1038	R211569J	FRN1038				10

aM 14 x 51

14 x 51	0,25	690	B212590J	FR14AM69V0.25	-	-		-		10
14 x 51	0,5	690	L213105J	FR14AM69V0.5	-	-		-		10
14 x 51	1	690	E213605J	FR14AM69V1	C212591J	FR14AM69V1I	500	W215644J	FR14AM50V1P	10
14 x 51	2	690	H214114J	FR14AM69V2	M213106J	FR14AM69V2I	500	B216661J	FR14AM50V2P	10
14 x 51	4	690	K214622J	FR14AM69V4	J214115J	FR14AM69V4I	500	C218203J	FR14AM50V4P	10
14 x 51	6	690	S215135J	FR14AM69V6	T215136J	FR14AM69V6I	500	E219240J	FR14AM50V6P	10
14 x 51	8	690	T215642J	FR14AM69V8	A216660J	FR14AM69V8I	500	N222215J	FR14AM50V8P	10
14 x 51	10	690	Z216659J	FR14AM69V10	R217687J	FR14AM69V10I	500	S200760J	FR14AM50V10P	10
14 x 51	12	690	M217177J	FR14AM69V12	Q218721J	FR14AM69V12I	500	R201817J	FR14AM50V12P	10
14 x 51	16	690	Q217686J	FR14AM69V16	F219770J	FR14AM69V16I	500	G211560J	FR14AM50V16P	10
14 x 51	20	690	P218720J	FR14AM69V20	R200759J	FR14AM69V20I	500	E212593J	FR14AM50V20P	10
14 x 51	25	690	E219769J	FR14AM69V25	Q201816J	FR14AM69V25I	500	H213608J	FR14AM50V25P	10
14 x 51	32	500	M222214J	FR14AM50V32	F211559J	FR14AM50V32I	500	N214625J	FR14AM50V32P	10
14 x 51	40	500	Q200758J	FR14AM50V40	D212592J	FR14AM50V40I	500	X215645J	FR14AM50V40P	10
14 x 51	45	500	L211035J	FR14AM50V45	G213607J	FR14AM50V45I	500	C216662J	FR14AM50V45P	10
14 x 51	50	400	E211558J	FR14AM40V50	M214624J	FR14AM40V50I	400	D218204J	FR14AM40V50P	10
14 x 51	Neutral		M212600J	FRN1451	M212600J	FRN1451		M212600J	FRN1451	10
Fuse extractor			M097554A	PMCP 14	M097554A	PMCP 14		M097554A	PMCP 14	1



aM ferrule-style fuses

aM 22 x 58

Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat. number w/o indicator	Ref. number with indicator	Cat. number with indicator	Voltage (V)	Ref. number with striker	Cat. number with striker	Pkg
22 x 58	1	690	M219776J	FR22AM69V1	-	-	690	E215652J	FR22AM69V1P	10
22 x 58	2	690	T222220J	FR22AM69V2	-	-	690	J216162J	FR22AM69V2P	10
22 x 58	4	690	Q222976J	FR22AM69V4	L219246J	FR22AM69V4I	690	A217695J	FR22AM69V4P	10
22 x 58	6	690	Y200765J	FR22AM69V6	V222221J	FR22AM69V6I	690	Y218728J	FR22AM69V6P	10
22 x 58	8	690	N201308J	FR22AM69V8	Y201823J	FR22AM69V8I	690	Q219779J	FR22AM69V8P	10
22 x 58	10	690	X201822J	FR22AM69V10	N211566J	FR22AM69V10I	690	S222978J	FR22AM69V10P	10
22 x 58	12	690	T211042J	FR22AM69V12	K212598J	FR22AM69V12I	690	R201311J	FR22AM69V12P	10
22 x 58	16	690	M211565J	FR22AM69V16	P213614J	FR22AM69V16I	690	W211044J	FR22AM69V16P	10
22 x 58	20	690	S212076J	FR22AM69V20	V214631J	FR22AM69V20I	690	W212079J	FR22AM69V20P	10
22 x 58	25	690	J212597J	FR22AM69V25	D215651J	FR22AM69V25I	690	Q213615J	FR22AM69V25P	10
22 x 58	32	690	V213113J	FR22AM69V32	J216668J	FR22AM69V32I	690	X214633J	FR22AM69V32P	10
22 x 58	40	690	N213613J	FR22AM69V40	Z217694J	FR22AM69V40I	690	F215653J	FR22AM69V40P	10
22 x 58	50	690	R214122J	FR22AM69V50	P219778J	FR22AM69V50I	690	K216669J	FR22AM69V50P	10
22 x 58	63	690	C215650J	FR22AM69V63	Z200766J	FR22AM50V63I	500	B217696J	FR22AM50V63P	10
22 x 58	80	690	H216667J	FR22AM69V80	P211567J	FR22AM50V80I	500	Z218729J	FR22AM50V80P	10
22 x 58	100	500	Y217693J	FR22AM50V100	L212599J	FR22AM50V100I	500	T222979J	FR22AM50V100P	10
22 x 58	125	400	J218209J	FR22AM40V125	W214632J	FR22AM40V125I	400	S201312J	FR22AM40V125P	10
22 x 58	Neutral		R213616J	FRN2258	R213616J	FRN2258		R213616J	FRN2258	10
Fuse extractor			K100036A	PMCP20+22	K100036A	PMCP20+22		K100036A	PMCP20+22	1

Functions

aM curve industrial fuse (green marking) – NF EN 60269-1 and 2-1 compliant.
 Direct protection for electrical motors, must be used in combination with another protection device (thermal relay).
 Easy selective coordination with upstream gG fuses.
 Selective coordination between two fuses two ratings apart (i.e. 160A and 100A).
 Breaking capacity: 20 kA for 8.3 x 31.5 fuses - 80 to 120 kA for other sizes at rated voltage.

Applications

Protection for all low voltage electrical motors with direct-on-line start.



for sizes 10, 14 and 22

For further information on our ferrule fuse lines, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading IEC general purpose fuses > ferrule fuses



Modulostar CMS8



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
8 x 31,5	1	X305000K	CMS81	E305007K	CMS81I	12
8 x 31,5	1+N	Y305001F	CMS81N	F305008F	CMS81NI	6
8 x 31,5	2	Z305002F	CMS82	G305009F	CMS82I	6
8 x 31,5	3	A305003D	CMS83	H305010D	CMS83I	4
8 x 31,5	3+N	B305004C	CMS83N	J305011C	CMS83NI	3
8 x 31,5	4	C305005C	CMS84	K305012C	CMS84I	3
8 x 31,5	N *	D305006K	CMS810N			12



Modulostar CMS10



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
10 x 38	1	T305020K	CMS101	A305026K	CMS101I	12
10 x 38	1+N	V305021F	CMS101N	B305027F	CMS101NI	6
10 x 38	2	W305022F	CMS102	C305028F	CMS102I	6
10 x 38	3	X305023D	CMS103	D305029D	CMS103I	4
10 x 38	3+N	Y305024C	CMS103N	E305030C	CMS103NI	3
10 x 38	4	Z305025C	CMS104	F305031C	CMS104I	3
10 x 38	3	S302765A	CMSFM10	W302768A	CMSFM10I	1
10 x 38	3 + micro	T302766A	CMSFM10M	V302767A	CMSFM10MI	1



Modulostar US10

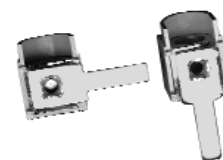
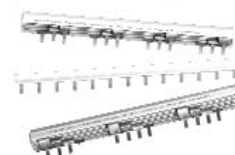


Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
10 x 38 & Midget	N	H305056K	US10N			
10 x 38 & Midget	1	B305050K	US101	J305057K	US101I	12
10 x 38 & Midget	1+N	C305051F	US101N	K305058F	US101NI	6
10 x 38 & Midget	2	D305052F	US102	L305059F	US102I	6
10 x 38 & Midget	3	E305053D	US103	M305060D	US103I	4
10 x 38 & Midget	3+N	F305054C	US103N	N305061C	US103NI	3
10 x 38 & Midget	4	G305055C	US104	P305062C	US104I	3
10 x 38 & Midget	3	D302775A	USFMM	G302778A	USFMMI	1
10 x 38 & Midget	3 + micro	E302776A	USFMMM	F302777A	USFMMMI	1



Accessories for CMS8, CMS10, US10

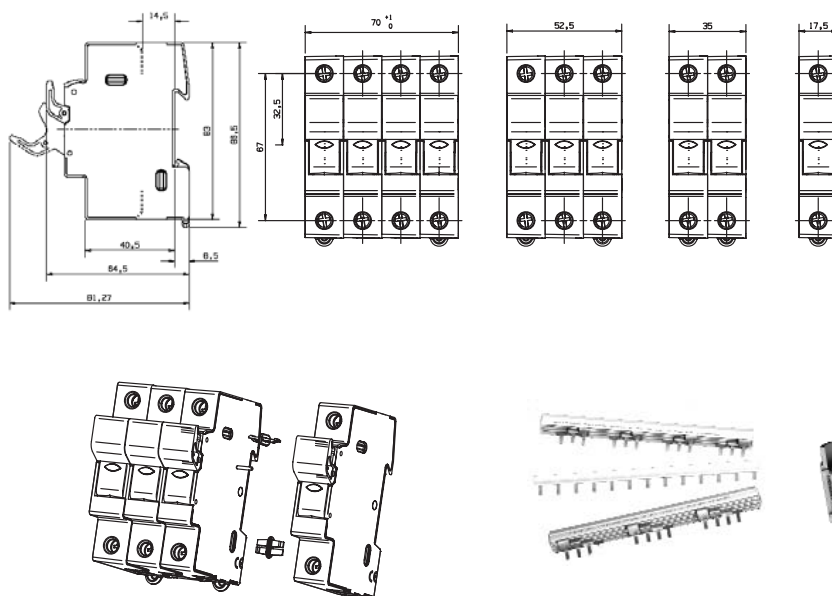
Description	Cat.number	Ref. number	Nb.Modules 17,5 mm	Courant maxi RMS (A)	Nb. of pole	Pckg
Multi-pole assembly kit	CMS810PAK	Z233725				12
Lock	LOCK	M223525				1
Locking kit	TAGLOCKCMS810	A235773				1
Single-phase size 8/10 comb connection	CMS810BB1F13	T210306	13	63	1	10
2-phase size 8/10 comb connection	CMS810BB2F6	V210307	6	63	2	10
3-phase size 8/10 comb connection	CMS810BB3F4	W210308	4	100	3	10
4-phase size 8/10 comb connection	CMS810BB4F3	X210309	3	100	4	10
Single-pole terminal, side	TBB1C	E210316		90		50
2/3-pole terminal, side	TBB23C	G210318		90		50
Single-pole terminal, axial	TBB1A	D210315		90		50
2/3-pole terminal, axial	TBB23A	F210317		90		50



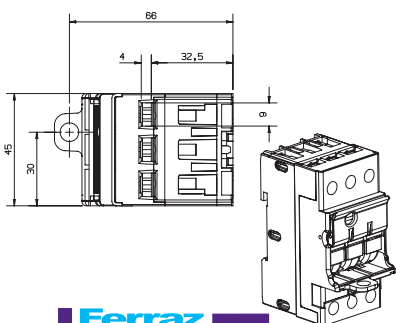
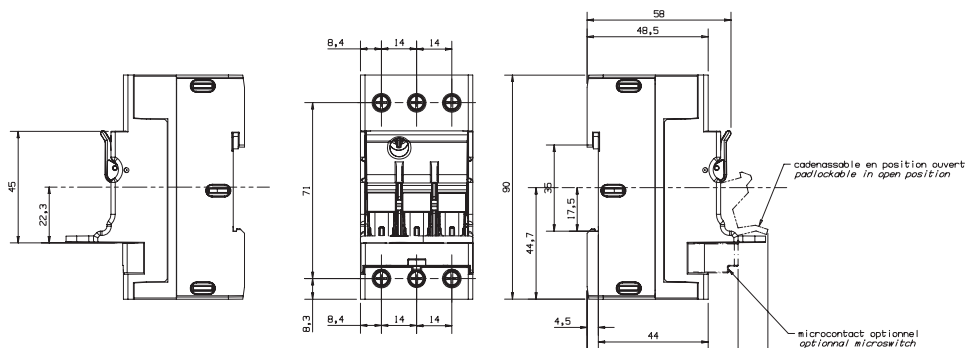


Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
Class CC Fuses	1	H305033K	USBCC1	P305039K	USBCC1I	12
Class CC Fuses	1+N	J305034F	USBCC1N	O305040F	USBCC1NI	6
Class CC Fuses	2	K305035D	USBCC2	O305041D	USBCC2I	4
Class CC Fuses	3	L305036C	USBCC3	S305042C	USBCC3I	3
Class CC Fuses	3+N	M305037C	USBCC3N	T305043C	USBCC3NI	3
Class CC Fuses	4	N305038C	USBCC4	V305044C	USBCC4I	3
Class CC Fuses	USFMCC	P302762A	USFMCC	O302763A	USFMCCI	1
Class CC Fuses	USFMCC with microswitch	B302796A	USFMCCM	R302764A	USFMCCMI	1

Drawings for CMS8, CMS10, US10 and USBCC



Drawings for CMSFM10



Nb of pole / Width	Cat.number	Ref. number	Description	Fuse holder	Disconnecter
Système 3-pole/ 45 mm	CMSFM10	S302765	CMSFM10 FUSE HOL 3P 690V 32A EU	w/o indicator	
	CMSFM10M	T302766	CMSFM10M FUSEHOL+MC3P690V32A EU		w/o indicator
	CMSFM10I	W302768	CMSFM10I FUS.HOL3P+V 690V32A EU	w/o indicator	
	CMSFM10MI	V302767	CMSFM10MI FUS.HOL3P+MC+V690V EU		w/o indicator

Modulostar CMS14

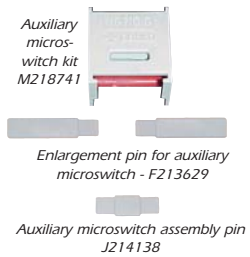


Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
14 x 51	1	F222990F	CMS141	M200778F	CMS141I	6
14 x 51	1+N	E201323C	CMS141N	M201836C	CMS141NI	3
14 x 51	2	J211056C	CMS142	C211579C	CMS142I	3
14 x 51	3	J212091B	CMS143	Z212611B	CMS143I	2
14 x 51	3+N	L213128A	CMS143N	D213627A	CMS143NI	1
14 x 51	4	G214136A	CMS144			1
14 x 51	N	N222468F	CMS14N			6
14 x 51 for fuses with striker	1			L223524F	CMS141AC	6
14 x 51 with microswitches (+ pre-isolation) (for fuses with striker)	1	K214645F	CMS141M	N201837F	CMS141MI	6
	2 (2 switches)	R215157C	CMS142M	K211057C	CMS142MI	3
	3	T215665B	CMS143M	D211580B	CMS143MI	2
	3 (2 switches)	Y216681B	CMS143M2	K212092B	CMS143M2I	2
	3+N	L217199A	CMS143NM	A212612A	CMS143NMI	1



Accessoires for CMS14

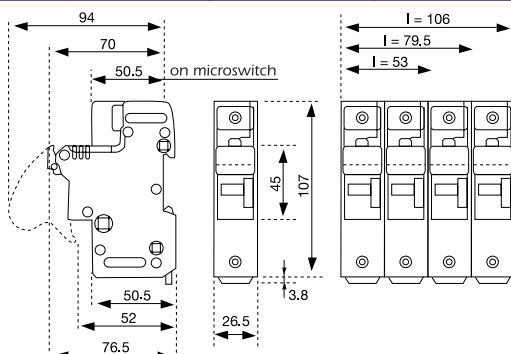
Description	Cat.number	Ref. number	Nb.Modules 17,5 mm	Pckg
Single-pole CMS14 auxiliary microswitch kit	CMS14W1	M218741	1.5	1
3-pole CMS14 auxiliary microswitch kit	CMS14W2	C219261	4.5	1
3-pole CMS14 2 auxiliary microswitch kit	CMS14W3	D219791	4.5	1
Auxiliary microswitch assembly pin (between 2 auxiliary microswitch kits)	CMS1422PTH	J214138		10*
Enlargement pin for auxiliary microswitches	CMS14BP	F213629		10*
Multi-pole assembly kit	CMS1422PAK	Z218223		10*
Indicator light kit	CMS14LIH	A225653		1
Lock	CMS14LOK	M223525		1



Modulostar US14



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
14 x 51	1	T227901F	US141	V227902F	US141I	6
14 x 51	1+N	Y227905C	US141N	Z227906C	US141NI	3
14 x 51	2	C227909C	US142	D227910C	US142I	3
14 x 51	3	J227915B	US143	K227916B	US143M	2
14 x 51	3+N	Q227921A	US143N	R227922A	US143NI	1
14 x 51	4	S227900F	US14N			6
14 x 51 with microswitches (+ pre-isolation) (for fuses with striker)	1	W227903F	US141M	X227904F	US141MI	6
	1+N	A227907C	US141NM	B227908C	US141NMI	3
	2	E227911C	US142M	F227912C	US142MI	3
	2 (2 switches)	G227913C	US142M2	H227914C	US142M2I	3
	3	L227917B	US143M	M227918B	US143MI	2
	3 (2 switches)	N227919B	US143M2	P227920B	US143M2I	2
	3+N	S227923A	US143NM	T227924A	US143NMI	1
	3+N (2 switches)	V227925A	US143NM2	W227926A	US143NM2I	1



Modulostar CMS22



NEW!

MODULO
STAR



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
22 x 58	1	E213628F	CMS221	H214137F	CMS221I	6
22 x 58	1+N	L214646C	CMS221N	S215158C	CMS221NI	3
22 x 58	2	V215666C	CMS222	Z216176C	CMS222I	3
22 x 58	3	Z216682B	CMS223	M217200B	CMS223I	2
22 x 58	3+N	Q217709A	CMS223N	A218224A	CMS223NI	1
22 x 58	4	N218742A	CMS224			1
22 x 58	N	M213129F	CMS22N			6
22 x 58 pour fusibles with striker	1			P201838F	CMS22AC	6
22 x 58 with microswitches (+ pre- isolation) (for fuses with striker)	1	D219262F	CMS221M	A216683F	CMS221MI	6
	2 (2 switches)	E219792C	CMS222M	N217201C	CMS222MI	3
	3	Q222470B	CMS223M	R217710B	CMS223MI	2
	3 (2 switches)	H222992B	CMS223M2	B218225B	CMS223M2I	2
	3+N	P200780A	CMS223NM	P218743A	CMS223NMI	1

Accessoires CMS22



Description	Cat.number	Ref. number	Nb. Modules 17,5 mm	Pckg
Kit contact auxiliaire 1 -pole CMS22	CMS22W1	E211581	2	1
Kit contact auxiliaire 3 pole CMS22	CMS22W2	L212093	6	1
Kit 2 contacts auxiliaires 3 pole CMS22	CMS22W3	B212613	6	1
Barette d'accouplement contacts auxiliaires (entre 2 kits contacts auxiliaires)	CMS1422PTH	J214138		10*
Barette prolongatrice de contacts auxiliaires	CMS14BP	F213629		10*
Kit d'assemblage multipolaire	CMS1422PAK	Z218223		10*
Kit voyant lumineux	CMS14LIH	A225653		1
Cadenas	CMS14LOK	M223525		1

Modulostar US22

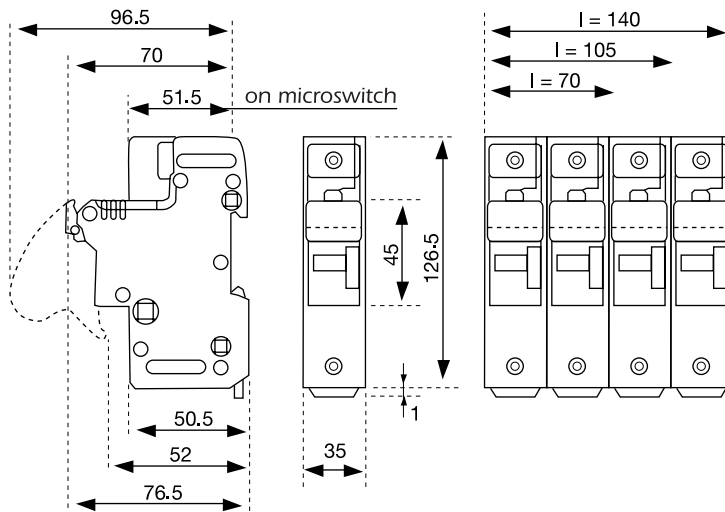


Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
22 x 58	1	C227932F	US221	D227933F	US221I	6
22 x 58	1+N	G227936C	US221N	H227937C	US221NM	3
22 x 58	2	L227940C	US222	M227941C	US222I	3
22 x 58	3	S227946B	US223	T227947B	US223I	2
22 x 58	3+N	Z227952A	US223N	A227953A	US223NI	1
22 x 58	N	B227931F	US22N			6
22 x 58 with microswitches (+ pre- isolation) (for fuses with striker)	1	E227934F	US221M	F227935F	US221MI	6
	1+N	J227938C	US221NM	K227939C	US221NMI	3
	2	N227942C	US222M	P227943C	US222MI	3
	2 (2 switches)	Q227944C	US222M2	R227945C	US222M2I	3
	3	V227948B	US223M	W227949B	US223MI	2
	3 (2 switches)	X227950B	US223M2	Y227951B	US223M2I	2
	3+N	B227954A	US223NM	C227955A	US223NMI	1
	3+N (2 switches)	D227956A	US223NM2	E227957A	US223NM2I	1



Drawings for CMS22 and US22

NEW!



Modulostar CMS27



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
27 x 60	1	R210580C	CMS271			3
27 x 60	1+N	S210581A	CMS271N			1
27 x 60	N	B210152C	CMS27N			3
27 x 60	2	T210582A	CMS272			1
27 x 60	3	V210583A	CMS273			1

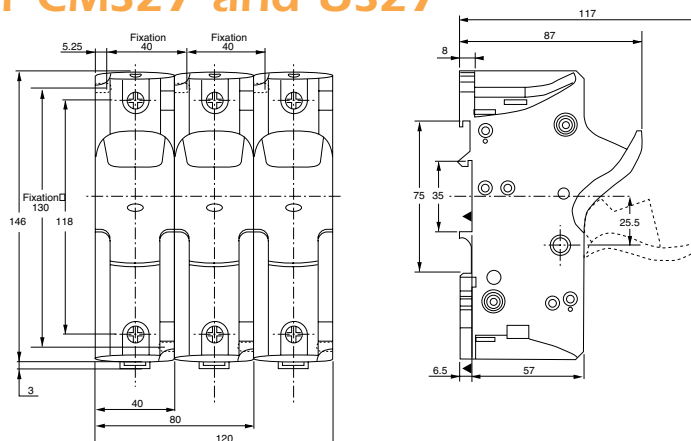


Modulostar US27



Size	CCD configurations	Ref. number w/o indicator light	Cat.number	Ref. number with indicator light	Cat.number	Pckg
27 x 60	1			J226420C	US271I	3
27 x 60	1+N			K226421A	US271NI	1
27 x 60	2			L226422A	US272I	1
27 x 60	3			M226423A	US273I	1
27 x 60	3+N			N226424A	US273NI	1

Drawings for CMS27 and US27



For further information on our brand new Modulostar range for ferrule-style fuses, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading **Gears & Fuse Gears**

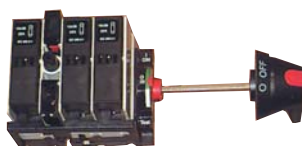
> for IEC general purpose fuses

> for ferrule-style fuses



Fused switch disconnectors

Sizes	Pole	Model with front handle		Model with side handle		Pckg
		Ferraz Shawmut	Cat.number	Ferraz Shawmut	Cat.number	
10x38 32A	3	J205283	ITC323	F210087	ITC323H	1
	3+N	K205284	ITC323N			1
	4	L205285	ITC324	G210088	ITC324H	1
14x51 50A	3	Y209896	ITC503	D209901	ITC503H	1
	4	Z209897	ITC503N	E209902	ITC503NH	1
22x58 125A	3	L210782	ITC1253	P210785	ITC1253H	1
	3+N	M210783	ITC1253N	Q210789	ITC1253NH	1
	4	N210784	ITC1254	R210787	ITC1254H	1



Description	Ref. number	Cat.number	Pckg
Single NC microswitch (1)	H209882	FOITC32/160NC	1
Single NO microswitch (1)	L207493	FOITC32/160NO	1
Double NO and NC microswitch (1)	P205288	FOITC32 NO/NC	1
Double NO and NC microswitch (1)	Q205289	DITC323 NO/NC	1
Double NO and NC microswitch (1)	R205290	DITC323N/4NO/NC	1
Double NO and NC microswitch (1)	Z210104A	DITC503 NO/NC	1
Double NO and NC microswitch (1)	A210105A	DITC503N/4 NO/NC	1
Double NO and NC microswitch (1)	A210473A	DITC125 3/4 NO/NC	1
Lockable insulating front handle ITC 32 (10x38)	N205287	PIITC32	1
Lockable insulating front handle ITC 50 & 125 (14x51, 22x58)	E210109	PIITC50/160	1
Lockable insulating side handle ITC32 Black	V209916	PENITC32	1
Lockable insulating side handle ITC32 red and yellow	C210084	PERJITC32	1
Lockable insulating side handle ITC50 (14x51) Black	M209909	PENITC32/160	1
Lockable insulating side handle ITC125 (22x58) red and yellow	N209910	PERJITC50/160	1
Lockable insulating side handle ITC 32 (10x38) Black	A210082	PENITC32L	1
Lockable insulating side handle ITC 32 (10x38) red and yellow	B210083	PERJITC32L	1
Lockable insulating side handle ITC 50FS (14x51) Black	D210085	PENITC50/160	1
Lockable insulating side handle ITC 125M (22x58) red and yellow	E210086	PERJITC50/160	1
Shaft extensions ITC32	T208558	AITC32/32L 330	1
Shaft extensions ITC50	B210106	AITC50/180 290	1
Shaft extensions ITC125	C210107	AITC50/160 430	1
Protection against accidental contact with terminals ITC32/ITC50 terminal cover per connection	N210207	CBITC 125/160/L	1
Neutral tube 8x32	X211045	FRN832	10
Neutral tube 10x38	R211569	FRN1038	10
Neutral tube 14x51	M212600	FRN1451	10
Neutral tube 22x58	R213616	FRN2258	10
6 and 8-pole 32A adapter	N097118	EXITC32	1
6 and 8-pole 50A and 160A adapter	A209024	EXITC50/160	1
32A reversing switch	A092598	INITC32	1
50A and 160A reversing switch	T081713	INITC50/160	1

For further information on our switch lines for ferrule-style fuses, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading **Switches**

> Fused switches

> ITC for ferrule fuses, 32 to 125A

NH 690V aG/aM fuses

Lindner

Sizes 000 to 1 – gG non-isolated gripping lugs



NH 690V aG/aM fuses

Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat. number	Microswitch ⁽¹⁾	Pckg
000	690	2	E228440C	NH000GG69V2	YES	3
000	690	4	F228441C	NH000GG69V4	YES	3
000	690	6	G228442C	NH000GG69V6	YES	3
000	690	10	J228444C	NH000GG69V10	YES	3
000	690	16	K228445C	NH000GG69V16	YES	3
000	690	20	L228446C	NH000GG69V20	YES	3
000	690	25	M228447C	NH000GG69V25	YES	3
000	690	32	N228448C	NH000GG69V32	YES	3
000	690	35	P228449C	NH000GG69V35	YES	3
000	690	40	Q228450C	NH000GG69V40	YES	3
000	690	50	R228451C	NH000GG69V50	YES	3
000	690	63	S228452C	NH000GG69V63	YES	3
000	690	80	T228453C	NH000GG69V80	YES	3
00	690	32	V228454C	NH00GG69V32	YES	3
00	690	35	W228455C	NH00GG69V35	YES	3
00	690	40	X228456C	NH00GG69V40	YES	3
00	690	50	Y228457C	NH00GG69V50	YES	3
00	690	63	Z228458C	NH00GG69V63	YES	3
00	690	80	A228459C	NH00GG69V80	YES	3
00	690	100	B228460C	NH00GG69V100	YES	3
00	690	125	C228461C	NH00GG69V125	YES	3
0	690	6	D228462C	NH0GG69V6	YES	3
0	690	10	E228463C	NH0GG69V10	YES	3
0	690	16	F228464C	NH0GG69V16	YES	3
0	690	20	G228465C	NH0GG69V20	YES	3
0	690	25	H228466C	NH0GG69V25	YES	3
0	690	32	J228467C	NH0GG69V32	YES	3
0	690	35	K228468C	NH0GG69V35	YES	3
0	690	40	L228469C	NH0GG69V40	YES	3
0	690	50	M228470C	NH0GG69V50	YES	3
0	690	63	N228471C	NH0GG69V63	YES	3
0	690	80	P228472C	NH0GG69V80	YES	3
0	690	100	Q228473C	NH0GG69V100	YES	3
0	690	125	R228474C	NH0GG69V125	YES	3
0	690	160	S228475C	NH0GG69V160	YES	3
1	690	16	T228476C	NH1GG69V16	NO	3
1	690	20	V228477C	NH1GG69V20	NO	3
1	690	25	W228478C	NH1GG69V25	NO	3
1	690	32	X228479C	NH1GG69V32	NO	3
1	690	35	Y228480C	NH1GG69V35	NO	3
1	690	40	Z228481C	NH1GG69V40	NO	3
1	690	50	A228482C	NH1GG69V50	NO	3
1	690	63	B228483C	NH1GG69V63	NO	3
1	690	80	C228484C	NH1GG69V80	NO	3
1	690	100	D228485C	NH1GG69V100	NO	3
1	690	125	E228486C	NH1GG69V125	NO	3
1	690	160	F228487C	NH1GG69V160	NO	3
1	690	200	G228488C	NH1GG69V200	YES	3
1	690	224	V233261C	NH1GG69V224	YES	3
1	690	250	W233262C	NH1GG69V250	YES	3



NH 690V gG/aM fuses

Lindner

Sizes 2 to 4a – gG non-isolated gripping lugs



Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat.number	Microswitch ⁽¹⁾	Pckg
2	690	32	H228489C	NH2GG69V32	NO	3
2	690	35	J228490C	NH2GG69V35	NO	3
2	690	40	K228491C	NH2GG69V40	NO	3
2	690	50	L228492C	NH2GG69V50	NO	3
2	690	63	M228493C	NH2GG69V63	NO	3
2	690	80	N228494C	NH2GG69V80	NO	3
2	690	100	P228495C	NH2GG69V100	NO	3
2	690	125	Q228496C	NH2GG69V125	YES	3
2	690	160	R228497C	NH2GG69V160	YES	3
2	690	200	S228498C	NH2GG69V200	YES	3
2	690	224	T228499C	NH2GG69V224	YES	3
2	690	250	V228500C	NH2GG69V250	YES	3
2	690	300	W228501C	NH2GG69V300	YES	3
2	690	315	X228502C	NH2GG69V315	YES	3
2	690	355	Y228503C	NH2GG69V355	YES	3
3	690	250	Z228504A	NH3GG69V250	NO	1
3	690	300	A228505A	NH3GG69V300	NO	1
3	690	315	B228506A	NH3GG69V315	YES	1
3	690	355	C228507A	NH3GG69V355	YES	1
3	690	400	D228508A	NH3GG69V400	YES	1
3	690	425	E228509A	NH3GG69V425	YES	1
3	690	500	F228510A	NH3GG69V500	YES	1
Bolted tightening (slotted blades)						
4	690	400 *)	N214004A	NH4GG69V400-8	NO	1
4	690	500 *)	Y215025A	NH4GG69V500-8	NO	1
4	690	630 *)	E215537A	NH4GG69V630-8	NO	1
4	690	800 *)	K216554A	NH4GG69V800-8	NO	1
Elastic tightening (solid blades)						
4a	690	400 *)	W217070A	NH4AGG69V400-6	NO	1
4a	690	500 *)	H217587A	NH4AGG69V500-6	NO	1
4a	690	630 *)	W222107A	NH4AGG69V630-6	NO	1
4a	690	800 *)	M222858A	NH4AGG69V800-6	NO	1

*) with indicator on top

NH 690V gG/aM fuses



NH 690V gG/aM fuses

Lindner

Sizes 000 to 1 - gG isolated gripping lugs



NH 690V gG/aM fuses

Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat.number	Pckg
000	690	2	D229704C	NH000GG69V2-1	3
000	690	4	E229705C	NH000GG69V4-1	3
000	690	6	F229706C	NH000GG69V6-1	3
000	690	10	H229708C	NH000GG69V10-1	3
000	690	16	J229709C	NH000GG69V16-1	3
000	690	20	K229710C	NH000GG69V20-1	3
000	690	25	L229711C	NH000GG69V25-1	3
000	690	32	M229712C	NH000GG69V32-1	3
000	690	35	N229713C	NH000GG69V35-1	3
000	690	40	P229714C	NH000GG69V40-1	3
000	690	50	Q229715C	NH000GG69V50-1	3
000	690	63	R229716C	NH000GG69V63-1	3
000	690	80	S229717C	NH000GG69V80-1	3
00	690	32	T229718C	NH00GG69V32-1	3
00	690	35	V229719C	NH00GG69V35-1	3
00	690	40	W229720C	NH00GG69V40-1	3
00	690	50	X229721C	NH00GG69V50-1	3
00	690	63	Y229722C	NH00GG69V63-1	3
00	690	80	Z229723C	NH00GG69V80-1	3
00	690	100	A229724C	NH00GG69V100-1	3
00	690	125	B229725C	NH00GG69V125-1	3
0	690	6	C229726C	NH0GG69V6-1	3
0	690	10	D229727C	NH0GG69V10-1	3
0	690	16	E229728C	NH0GG69V16-1	3
0	690	20	F229729C	NH0GG69V20-1	3
0	690	25	G229730C	NH0GG69V25-1	3
0	690	32	H229731C	NH0GG69V32-1	3
0	690	35	J229732C	NH0GG69V35-1	3
0	690	40	K229733C	NH0GG69V40-1	3
0	690	50	L229734C	NH0GG69V50-1	3
0	690	63	M229735C	NH0GG69V63-1	3
0	690	80	N229736C	NH0GG69V80-1	3
0	690	100	P229737C	NH0GG69V100-1	3
0	690	125	Q229738C	NH0GG69V125-1	3
0	690	160	R229739C	NH0GG69V160-1	3
1	690	16	S229740A	NH1GG69V16-1	1
1	690	20	T229741A	NH1GG69V20-1	1
1	690	25	V229742A	NH1GG69V25-1	1
1	690	32	W229743A	NH1GG69V32-1	1
1	690	35	X229744A	NH1GG69V35-1	1
1	690	40	Y229745A	NH1GG69V40-1	1
1	690	50	Z229746A	NH1GG69V50-1	1
1	690	63	A229747A	NH1GG69V63-1	1
1	690	80	B229748A	NH1GG69V80-1	1
1	690	100	C229749A	NH1GG69V100-1	1
1	690	125	D229750A	NH1GG69V125-1	1
1	690	160	E229751A	NH1GG69V160-1	1
1	690	200	F229752A	NH1GG69V200-1	1
1	690	224	G229753A	NH1GG69V224-1	1



NH 690V aG/aM fuses

Lindner

Sizes 2 to 3 - gG isolated gripping lugs



Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat.number	Pckg
2	690	32	J229755A	NH2GG69V32-1	1
2	690	35	K229756A	NH2GG69V35-1	1
2	690	40	L229757 A	NH2GG69V40-1	1
2	690	50	M229758A	NH2GG69V50-1	1
2	690	63	N229759A	NH2GG69V63-1	1
2	690	80	P229760A	NH2GG69V80-1	1
2	690	100	Q229761A	NH2GG69V100-1	1
2	690	125	R229762A	NH2GG69V125-1	1
2	690	160	S229763A	NH2GG69V160-1	1
2	690	200	T229764A	NH2GG69V200-1	1
2	690	224	V229765A	NH2GG69V224-1	1
2	690	250	D233729A	NH2GG69V250-1	1
2	690	300	X229767A	NH2GG69V300-1	1
2	690	315	Y229768A	NH2GG69V315-1	1
2	690	355	Z229769A	NH2GG69V355-1	1
3	690	250	A229770A	NH3GG69V250-1	1
3	690	300	B229771A	NH3GG69V300-1	1
3	690	315	C229772 A	NH3GG69V315-1	1
3	690	355	D229773A	NH3GG69V355-1	1
3	690	400	E229774A	NH3GG69V400-1	1
3	690	425	F229775A	NH3GG69V425-1	1

NH 690V aG/aM fuses



NH 690V aG/aM fuses

Lindner

Sizes 000 to 1 - aM non-isolated gripping lugs



NH 690V aG/aM fuses

Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat. number	Microswitch ¹⁾	Pckg
000	690	2	P227851C	NH000AM69V2	YES	3
000	690	4	Q227852C	NH000AM69V4	YES	3
000	690	6	R227853C	NH000AM69V6	YES	3
000	690	10	S227854C	NH000AM69V10	YES	3
000	690	16	T227855C	NH000AM69V16	YES	3
000	690	20	V227856C	NH000AM69V20	YES	3
000	690	25	W227857C	NH000AM69V25	YES	3
000	690	32	X227858C	NH000AM69V32	YES	3
000	690	35	Y227859C	NH000AM69V35	YES	3
000	690	40	Z227860C	NH000AM69V40	YES	3
000	690	50	A227861C	NH000AM69V50	YES	3
000	690	63	B227862C	NH000AM69V63	YES	3
00	690	50	D227864C	NH00AM69V50	YES	3
00	690	63	E227865C	NH00AM69V63	YES	3
00	690	80	F227866C	NH00AM69V80	YES	3
00	690	100	G227867C	NH00AM69V100	YES	3
00	690	125	H227868C	NH00AM69V125	YES	3
0	690	6	K227870C	NH0AM69V6	YES	3
0	690	10	L227871C	NH0AM69V10	YES	3
0	690	16	M227872C	NH0AM69V16	YES	3
0	690	20	N227873C	NH0AM69V20	YES	3
0	690	25	P227874C	NH0AM69V25	YES	3
0	690	32	Q227875C	NH0AM69V32	YES	3
0	690	35	R227876C	NH0AM69V35	YES	3
0	690	40	S227877C	NH0AM69V40	YES	3
0	690	50	T227878C	NH0AM69V50	YES	3
0	690	63	V227879C	NH0AM69V63	YES	3
0	690	80	W227880C	NH0AM69V80	YES	3
0	690	100	X227881C	NH0AM69V100	YES	3
0	690	125	Y227882C	NH0AM69V125	YES	3
0	690	160	Z227883C	NH0AM69V160	YES	3
1	690	16	B227885C	NH1AM69V16	YES	3
1	690	20	C227886C	NH1AM69V20	YES	3
1	690	25	D227887C	NH1AM69V25	YES	3
1	690	32	E227888C	NH1AM69V32	YES	3
1	690	35	F227889C	NH1AM69V35	YES	3
1	690	40	G227890C	NH1AM69V40	YES	3
1	690	50	H227891C	NH1AM69V50	YES	3
1	690	63	J227892C	NH1AM69V63	YES	3
1	690	80	K227893C	NH1AM69V80	YES	3
1	690	100	L227894C	NH1AM69V100	YES	3
1	690	125	M227895C	NH1AM69V125	YES	3
1	690	160	N227896C	NH1AM69V160	YES	3
1	690	200	P227897C	NH1AM69V200	YES	3
1	690	224	Q227898C	NH1AM69V224	YES	3
1	690	250	R227899C	NH1AM69V250	YES	3



NH 690V aG/aM fuses

Lindner

Sizes 2 to 4a - aM non-isolated gripping lugs



Size	Voltage (V)	Rated current I _N (A)	Ref. number	Cat.number	Microswitch ⁽¹⁾	Pckg
2	690	35	L227963C	NH2AM69V35	YES	3
2	690	40	M227964C	NH2AM69V40	YES	3
2	690	50	N227965C	NH2AM69V50	YES	3
2	690	63	P227966C	NH2AM69V63	YES	3
2	690	80	O227967C	NH2AM69V80	YES	3
2	690	100	R227968C	NH2AM69V100	YES	3
2	690	125	S227969C	NH2AM69V125	YES	3
2	690	160	T227970C	NH2AM69V160	YES	3
2	690	200	V227971C	NH2AM69V200	YES	3
2	690	224	W227972C	NH2AM69V224	YES	3
2	690	250	X227973C	NH2AM69V250	YES	3
2	690	300	Y227974C	NH2AM69V300	YES	3
2	690	315	Z227975C	NH2AM69V315	YES	3
2	690	355	A227976C	NH2AM69V355	YES	3
2	690	400	B227977C	NH2AM69V400	YES	3
3	690	250	D227979A	NH3AM69V250	YES	1
3	690	300	E227980A	NH3AM69V300	YES	1
3	690	315	F227981A	NH3AM69V315	YES	1
3	690	355	G227982A	NH3AM69V355	YES	1
3	690	400	H227983A	NH3AM69V400	YES	1
3	690	425	J227984A	NH3AM69V425	YES	1
3	690	450	K227985A	NH3AM69V450	YES	1
3	690	500	L227986A	NH3AM69V500	YES	1
Bolted tightening (slotted blades)						
4	690	400 *)	O227990A	NH4AM69V400-8	NO	1
4	690	500 *)	R227991A	NH4AM69V500-8	NO	1
4	690	630 *)	S227992A	NH4AM69V630-8	NO	1
4	690	800 *)	T227993A	NH4AM69V800-8	NO	1
4	690	1000 *)	V227994A	NH4AM69V1000-8	NO	1
Elastic tightening (solid blades)						
4a	690	500 *)	X227996A	NH4AM69V500-6	NO	1
4a	690	630 *)	Y227997A	NH4AM69V630-6	NO	1
4a	690	800 *)	A227999A	NH4AM69V800-6	NO	1
4a	690	1000 *)	B228000A	NH4AM69V1000-6	NO	1

*) with indicator on top

NH 690V aG/aM fuses



Fuse holders for blade-style fuses

Fuse holders for blade-style fuses



Ref. G222485A



Ref. R216192C

Nb of pole	Ref. number Size 000/00	Ref. number Size 0	Ref. number Size 1	Ref. number Size 2	Ref. number Size 3	Ref. number Size 4	Pckg
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Fuse holders for fuses w/o striker (1)

1 -pole	R216192C	S216193C	A223008C	E211075C	X213644C	W223004A (2)	C=3, A=1
2 -pole	F218758B	P216696B	G200796B	V211595B	B214154B	-	2
3 -pole	V229121A	C217214A	Y201340A	D212109A	F214664A	-	1
4 -pole	Z223007A	J217726A	H201855A	R212627A	K215174A	-	1
Partition	W212654B	Z213669B	J214690B	J214690B	O215708B	-	2

IP 2X (finger safe) fuse holders for fuses w/o striker (1)

1 -pole	S218240C	G226717C	P226724C	R226726C	T226728C	-	3
3 -pole	S229119A	J226719A	Q226725A	S226727A	V226729A	-	1

Fuse holders for fuses with striker (2) Single microswitch included (NONC)

1 -pole	-	T216194A	O216697A	D217215A	H218760A	G091362A	1
2 -pole	-	H091363A	J091364A	K091365A	L091366A	-	1
3 -pole	-	N091368A	P091369A	Q091370A	R091371A	-	1
4 -pole	-	T091373A	V091374A	W091375A	X091376A	-	1

Nbre of pole	Cat. Number Size 000/00	Cat. Number Size 0	Cat. Number Size 1	Cat. Number Size 2	Cat. Number Size 3	Cat. Number Size 4	Pckg
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Fuse holders for fuses w/o striker (1)

1 -pole	NH00BPLRL1PT0	EP01R	PP11R	PP21R	PP31R	NH4BCESC1PT0	C=3, A=1
2 -pole	EP002R	EP02R	PP12R	PP22R	PP32R	-	2
3 -pole	NH00BPLRL3PT0	EP03R	PP13R	PP23R	PP33R	-	1
4 -pole	EP004R	EP04R	PP14R	PP24R	PP34R	-	1
Partition	NH00WALL	NH0WALL	NH1NH2WALL	NH1NH2WALL	NH3WALL	-	2

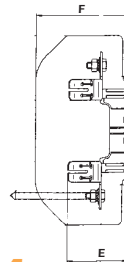
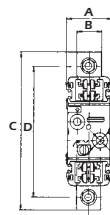
IP 2X (finger safe) fuse holders for fuses w/o striker (1)

1 -pole		EP01RIP20	PP11FSR	PP21FSR	PP31RIP20		3
3 -pole		EP03RIP20	PP13RIP20	PP23FSR	PP33RIP20		1

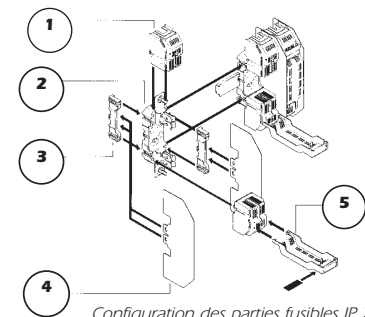
Fuse holders for fuses with striker (2) Single microswitch included (NONC)

1 -pole						5S14+MC2-5T4	1
2 -pole		5S02MCN	5S111MCN	5S112MCN			1
3 -pole		5S03MCN	5S1111MCN	5S112MCN			1
4 -pole		5S04MCN	5S1V1MCN	5S1V2MCN			1

(1) DIN rail or screw mounting – (2) Screw mounting



- 1 Terminal cover
- 2 NH base
- 3 Separator
- 4 Isolating partitions
- 5 Fuse cover



Configuration des parties fusibles IP 2X

EP 00, PP, 0, 1, 2, 3 - 5S, 4

Type	Range	A (mm)	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)
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Fuse holder for fuses W/O striker

00 single-pole	EP	32	20	117	100	52	85
0 single-pole	PP	46	25	168	151	59	95
1 single-pole	PP	60	32	209	176	71	123
2 single-pole	PP	60	35	225	201	89	123
3 single-pole	PP	60 40	245	210	103	143	

Fuse holder for fuses WITH striker

0 single-pole	PP	64	25	168	151	59	-
1 single-pole	PP	73	32	209	176	71	-
2 single-pole	PP	73	35	225	201	89	-
3 single-pole	PP	80	40	244	210	103	-
4 single-pole	5S	100	66	300	250	141	-



NH 690V aG/aM with Striker

Lindner

Size 0 to 3



L216187



P219272



Y212104



M216188

Size	Tension (V)	Rated current I_N (A)	Référence	Cat.number	Microswitch ⁽¹⁾	Cond.
0	690V	32	Z213140	NH0AM69V32P-2	80kA - 690V	3
0	690V	40	R213639	NH0AM69V40P-2	80kA - 690V	3
0	690V	50	V214148	NH0AM69V50P-2	80kA - 690V	3
0	690V	63	Y214657	NH0AM69V63P-2	80kA - 690V	3
0	690V	80	C215167	NH0AM69V80P-2	80kA - 690V	3
0	690V	100	F215676	NH0AM69V100P-2	80kA - 690V	3
0	690V	125	L216187	NH0AM69V125P-2	80kA - 690V	3
0	690V	160	J216691	NH0AM69V160P-2	80kA - 690V	3
0	500V	200	X217209	NH0AM50V200P-2	120kA - 500V	3
1	690V	80	C217720	NH1AM69V80P-2	80kA - 690V	3
1	690V	100	M218235	NH1AM69V100P-2	80kA - 690V	3
1	690V	125	A218753	NH1AM69V125P-2	80kA - 690V	3
1	690V	160	P219272	NH1AM69V160P-2	80kA - 690V	3
1	690V	200	B222480	NH1AM69V200P-2	80kA - 690V	3
1	690V	250	T223002	NH1AM69V250P-2	80kA - 690V	3
1	500V	315	A200790	NH1AM50V315P-2	120kA - 500V	3
2	690V	125	S201335	NH2AM69V125-2	80kA - 690V	3
2	690V	160	B201849	NH2AM69V160-2	80kA - 690V	3
2	690V	200	Y211069	NH2AM69V200-2	80kA - 690V	3
2	690V	224	P211590	NH2AM69V224P-2	80kA - 690V	3
2	690V	250	Y212104	NH2AM69V250-2	80kA - 690V	3
2	690V	315	N212624	NH2AM69V315P-2	80kA - 690V	3
2	690V	355	A213141	NH2AM69V355-2	80kA - 690V	3
2	690V	400	S213640	NH2AM69V400-2	80kA - 690V	3
2	500V	500	W214149	NH2AM50V500-2	120kA - 500V	3
3	690V	315	Z214658	NH3AM69V315P-2	80kA - 690V	3
3	690V	355	D215168	NH3AM69V355P-2	80kA - 690V	3
3	690V	400	G215677	NH3AM69V400P-2	80kA - 690V	3
3	690V	500	M216188	NH3AM69V500P-2	80kA - 690V	3
3	500V	630	K216692	NH3AM50V630P-2	120kA - 500V	3



NH 690V aG/aM with Striker

Lindner

Size 0 to 3



H216690



R223000



X214656



N219271

Size	Tension (V)	Rated current I _N (A)	Référence	Cat.number	Microswitch ⁽¹⁾	Cond.
0	690V	32	P213637	NH0GG69V32P-2	80kA - 690V	3
0	690V	35	S214146	NH0GG69V35P-2	80kA - 690V	3
0	690V	40	W214655	NH0GG69V40P-2	80kA - 690V	3
0	690V	50	B215166	NH0GG69V50P-2	80kA - 690V	3
0	690V	63	D215674	NH0GG69V63P-2	80kA - 690V	3
0	690V	80	J216185	NH0GG69V80P-2	80kA - 690V	3
0	690V	100	H216690	NH0GG69V100P-2	80kA - 690V	3
0	500V	125	V217207	NH0GG50V125P-2	120kA - 500V	3
0	500V	160	A217718	NH0GG50V160-2	120kA - 500V	3
0	500V	200	K218233	NH0GG50V200P-2	120kA - 500V	3
1	690V	80	Y218751	NH1GG69V80P-2	80kA - 690V	3
1	690V	100	M219270	NH1GG69V100P-2	80kA - 690V	3
1	690V	125	P219801	NH1GG69V125P-2	80kA - 690V	3
1	690V	160	Z222478	NH1GG69V160P-2	80kA - 690V	3
1	690V	200	R223000	NH1GG69V200P-2	80kA - 690V	3
1	500V	224	Y200788	NH1GG50V224P-2	120kA - 500V	3
1	500V	250	Q201333	NH1GG50V250P-2	120kA - 500V	3
1	500V	315	Z201847	NH1GG50V315P-2	120kA - 500V	3
1	500V	355	W211067	NH1GG50V355P-2	120kA - 500V	3
2	690V	125	W212102	NH2GG69V125P-2	80kA - 690V	3
2	690V	160	L212622	NH2GG69V160P-2	80kA - 690V	3
2	690V	200	Y213139	NH2GG69V200P-2	80kA - 690V	3
2	690V	224	Q213638	NH2GG69V224P-2	80kA - 690V	3
2	690V	250	T214147	NH2GG69V250P-2	80kA - 690V	3
2	690V	315	X214656	NH2GG69V315P-2	80kA - 690V	3
2	500V	355	E215675	NH2GG69V355P-2	120kA - 500V	3
2	500V	400	K216186	NH2GG50V400P-2	120kA - 500V	3
2	500V	500	W217208	NH2GG50V500P-2	120kA - 500V	3
3	690V	315	B217719	NH3GG69V315P-2	80kA - 690V	3
3	690V	355	L218234	NH3GG69V355P-2	80kA - 690V	3
3	690V	400	Z218752	NH3GG69V400P-2	80kA - 690V	3
3	690V	500	N219271	NH3GG69V500P-2	80kA - 690V	3
3	500V	630	Q219802	NH3GG50V630P-2	120kA - 500V	3

NH 690V aG/aM with Striker

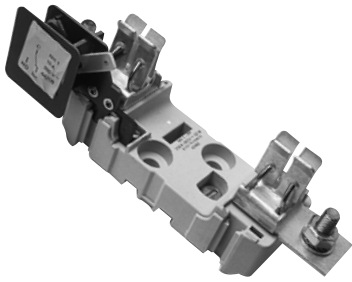


NH Fuses Plastic Bases

Sizes 00 to 3

Fuse bases 690V for HRC fuse-links NH with striker

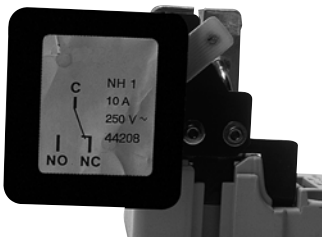
- For fuse-links with striker
- Rail or screw fixing



Size	In (A)	Prev. Ref.	Cat. Number	Ref. Number	Pack.
0	160	42906		T216194	1
1	250	42908		O216697	1
2	400	42910		D217215	1
3	630	42912		H218760	1

Microswitch (sold separately)

- Microswitch for NH fuse bases in polyester material (screw or rail fixing).
- Microswitch operates when:
 - fuse melts
 - no fuse-link
- Operating voltage: 250 V~
- Rated current: 10 A.
- Terminal size: 6.3 x 0.8 mm.



If you are interested in ordering microswitch and NH fuse base separately: T218241 + X219279 same size as T216194 (size 0)

Size	In (A)	Prev. Ref.	Cat. Number	Ref. Number	Pack.
0	160	44206		X219279	1
1	250	44208		Y219809	1
2	400	44210		J222487	1
3	630	44212		B223009	1





Master Fuse gG 690V

NEW!

Master Fuse: gG fuses with very high ratings



Breaking capacity	Size	Ref.Number	Cat.Number
1250	76	E302753	MF76GG69V1250
1600	89	F302754	MF89GG69V1600
2000	114	G302755	MF114GG69V2000
2500	127	H302756	MF127GG69V2500

Pckg: 1 piece

For 3200A(Ø 146mm) – 4000A (Ø 160mm) – 4800 A (Ø 181mm), please enquire.

Characteristics

- High ratings, from 1250 to 2500A
- gG class with rated voltage 690V
- IEC 60269-1 and 2 compliant
- Dimensions as per section V, IEC 60269-2-1
- Breaking capacity from 160 kA to 690V 50 Hz

Applications

- General protection for low voltage panels
- High power protection at 690V
- Backup for circuit breakers
- Blade fuses for power busbar assembly
- Disconnect, switch or circuit breaker isolation

Fuse and Fusegear complying with the 4 standards: DIN, BS, NF, UL-CSA
Your one-stop shop for the safety of low voltage equipment

Our solutions are fully safe for use in yours!

www.ferrazshawmut.com

From to

1, rue Jean Novel - 69626 Villeurbanne Cedex - France
Tél: 33 (0)4 72 22 66 11 - Fax 33 (0)4 72 22 67 13
374, Merrimac Street, Newburyport, MA 01950 - 1998 - USA
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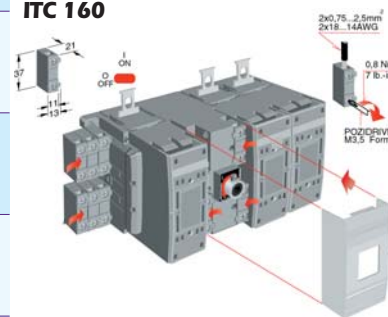


Fuse switches - 63 to 630A

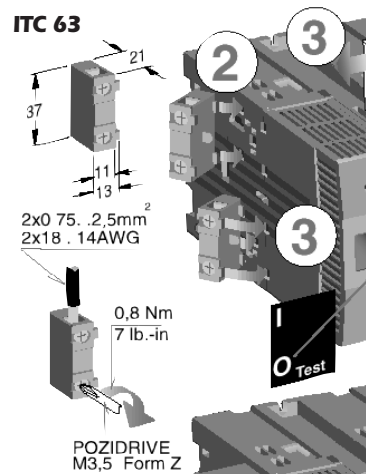
	Type	Pole	Designation	Ref. number	Cat. Number
FRONT HANDLE	00 63 A	3	ITC 63D III 00CDE FRONT	A 209898	ITC63S3CF
		3+N	ITC 63D III+N 00CDE FRONT	B 209899	ITC63S3NCF
		4	ITC 63D IV 00CDE FRONT	C 209900	ITC63S4CF
	00 160 A	3	ITC 160F III 00 CDE Front	S 210788	ITC160S3CF
		3+N	ITC 160 F III+NQ0	T 210789	ITC160S3NCF
		4	ITC 160F IV 00 CDE Front	U 210790	ITC160S4CF
	DIN 1 250 A	3	ITC 250D III T1	Q 207290	ITC250S3CF
		3+N	ITC 250D III+N T1	R 207291	ITC250S3NCF
		4	ITC 250D IV T1	V 207292	ITC250S4CF
	DIN 2 400 A	3	ITC 400D III T2	T 207293	ITC400S3CF
		3+N	ITC 400D III+N T2	V 207294	ITC400S3NCF
		4	ITC 400D IV T2	W 207295	ITC400S4CF
DIN 3 630 A	3	ITC 630D III T3	X 207296	ITC630S3CF	
	3+N	ITC 630D III+N T3	Y 207297	ITC630S3NCF	
	4	ITC 630D IV T3	Z 207298	ITC630S4CF	
SIDE HANDLE	00 63 A	3	ITC 63DM III 00 CDE LAT	F 209903	ITC63S3CL
		3+N	ITC 63DM III+N 00 CDE LAT	G 209904	ITC63S3NCL
		4	ITC 63DM IV 00 CDE LAT	H 209905	ITC63S4CL
	00 160 A	3	ITC 160M III 00 CDE LAT	W 210791	ITC160S3CL
		3+N	ITC 160M III+N 00CDE LAT	X210792	ITC160S3NCL
		4	ITC 160M IV 00 CDE LAT	Y 210793	ITC160S4CL
	DIN 1 250 A	3	ITC 250DM III T1 CDE LAT	E 208614	ITC250S3CL
		3+N	ITC 250DM III+N T1 CDE LAT	F 208615	ITC250S3NCL
		4	ITC 250DM IV T1 CDE LAT	G 208616	ITC250S4CL
	DIN 2 400 A	3	ITC 400DM III T2 CDE LAT	H 208617	ITC400S3CL
		3+N	ITC 400DM III+N T2 CDE LAT	J 208618	ITC400S3NCL
		4	ITC 400DM IV T2 CDE LAT	K 208619	ITC400S4CL

The following articles can be ordered separately. Look under the heading Accessories to order any other adaptors you need.

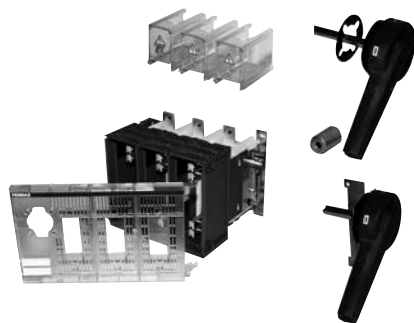
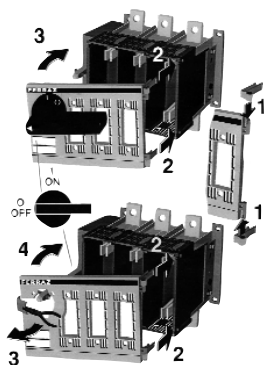
ITC 160



ITC 63



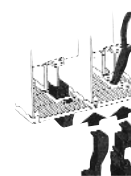
ITC 250D to 630D



Pre-isolation Microswitch



Microswitch of blown fuse

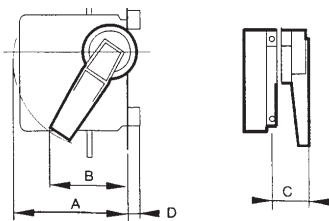


Microswitch characteristics

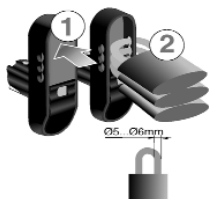
Ref. number	Minimum pour for fail-safe operation	Maximum pour for AC12 operation	Applications	
Pre-isolation				
H 209882 L 207493 S 086 588 L 097 300	24 V 25 mA AC / DC	690 V 2 A cos j = 0,9	Standard single microswitch Standard twin microswitch	NC NO NO/NC NO/NC
J 208020	24 V 10 mA AC / DC	690 V 2 A cos j = 0,9	Single microswitch for corrosive atmosphere or connection to a programmable controller	NO/NC
Blown fuse				
Blown fuse indicator microswitch	24 V 25 mA AC / DC	690 V 2 A cos j = 0,9	Standard single microswitch	

Control handle dimensions

Padlockable inside front control handle



Ref. number	Modèle d'interrupteur	A mm	B mm	C mm	D mm	weight (kg)	Cat.Number
E 210109	ITC 63 to 160	50	70	20	XX	0,15	PIITC50/160



Ref. number	Modèle d'interrupteur	A mm	B mm	C mm	D mm	weight (kg)	Cat.Number
T090936	ITC 250 ITC 400	202	170	100	30	1,2	PILRIT500ITC250

Accessory reference numbers

P O I G N É E	Size de fusible et courant nominal	Microswitch de pré coupure Microswitch simple ① Un contact (NO/NC) ou (NC) ② Inverseur (NO/NC) ③ 2 micros simples (NO/NC) Microswitch double ④ 2 inverseurs (NO/NC) ⑤ 2x2 micros simples (NO/NC) Bas niveau ⑥ 2x2 micros simples (NO/NC)	Indication de fusion fusible	Protection against accidental contact fortuit Un écran par borne	Protection contre le toucher du fusible	Poignée intérieure cadenassable fournie avec l'axe Voir l'encombrement de l'appareil	Poignée extérieure cadenassable fournie avec l'axe Distance entre l'appareil et la poignée Voir encombrement de la poignée de commande Black (red and yellow)	Prolongement d'axe La distance maximale entre la poignée et l'appareil est égale to la longueur de l'axe L – 60mm
FRONTALE	00 63A III III+N IV	① H209882 (NC)* ① L207493 (NO)*	=====	Intégré	Intégré	E 210109	M 209909 (N 209910)	B 210 106 (L = 290 mm)
	00 160A III III+N IV	① H209882 (NC)* ① L207493 (NO)*	=====	N 210807 (1 par borne)	Intégré		M 209909 (N 209910)	C 210 107 (L = 430 mm)
	DIN1 250A III III+N IV		III& IV A207299 NO L207976 NC B207300 NO N207978 NC	M 096657 (1 par borne)	G 207305 H 207306 H 207306	Prendre la poignée extérieure avec un écran de protection contre le toucher du fusible	Q 209912 (R 209913)	
	DIN2 400A III III+N IV	③ S086588 ⑤ L097300 ⑥ J208020	III& IV C207301 NO L207976 NC D207302 NO N207978 NC	M 096657 (1 par borne)	J 207307 K 207308 K 207308		Q 209912 (R 209913)	L 097093 (L = 395 mm)
	DIN3 630A III III+N IV		III& IV E207303 NO L207976 NC F207304 NO N207978 NC	S 095880 (1 par borne)	L 207309 M 207310 M 207310		Q 209912 (R 209913)	
LATÉRALE	00 63A III III+N IV	① H209882 (NC)* ① L207493 (NO)*	=====	Intégré	Intégré	Non disponible. Prendre la poignée frontale extérieure	D 210085 (E 210086)	B 210 106 (L = 290 mm)
	00 160A III III+N IV	① H209882 (NC)* ① L207493 (NO)*	=====	N210807	Intégré		D 210085 + E 210454 (E 210086 + E 210454)	C 210 107 (L = 430 mm)
	DIN1 250A III III+N IV	③ S086588 ⑤ L097300	III& IV A 207299 NO L 207976 NC B 207300 NO N 207978 NC	M 096657 (1 par borne)	G 207305 H 207306 H 207306	T 090936 (red)	Y 090940 (red)	P 092979 (L = 465mm)
	DIN2 400A III III+N IV	⑥ J208020	III& IV C 207301 NO L 207976 NC D 207302 NO N 207978 NC	M 096657 (1 par borne)	J 207307 K 207308 K 207308	T 090936 (red)	Y 090940 (red)	

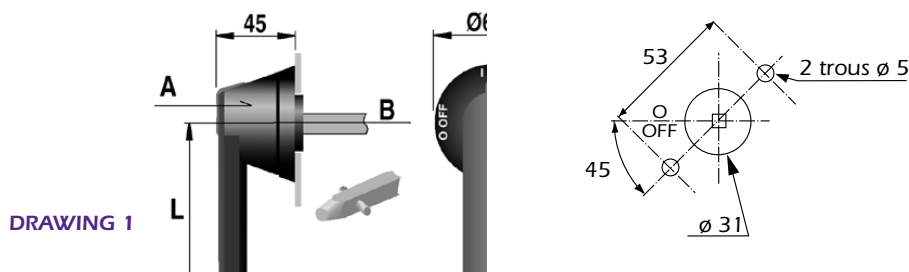
* 8 contacts maxi

Accessory Catalog Number

P O I G N É E	Size de fusible et courant nominal	Microswitch de pré coupure	Indication de fusion fusible	Protection against accidental contact fortuit	Protection contre le toucher du fusible	Poignée intérieure cadenassable fournie avec l'axe	Poignée extérieure cadenassable fournie avec l'axe	Prolongement d'axe
		Microswitch simple ① Un contact (NO) ou (NC) ② Inverseur (NO/NC) ③ 2 micros simples (NO/NC) Microswitch double ④ 2 inverseurs (NO/NC) ⑤ 2x2 micros simples (NO/NC) Bas niveau ⑥ 2x2 micros simples (NO/NC)						
FRONTALE	00 63A III/III+N/IV	① FOITC32/160NC ① FOIT25/125ETNC	=====	Intégré	Intégré	PIITC50/160	PENITC32/160 PERJIT160	A290ITC50/160 (L = 290 mm)
	00 160A III/III+N/IV	① FOITC32/160NC ① FOIT25/125ETNC	=====	Intégré	Intégré	CBITC125/160 (1 par borne)	PENITC32/160 PERJIT160	A430ITC50/160 (L = 430 mm)
	DIN1 250A III/III+N/IV		III& III+N/IV DITC250NO3/3N DITC250/630NC3 DITC250NO4 DITC250/630NC4	CBITC250/400 (1 par borne)	CPTITC250/3 CPTITC250/3N/4 CPTITC250/3N/4	Prendre la poignée	PERNIT500/1600 PERJIT500/1600	
	DIN2 400A III/III+N/IV	③ FOIT500NO/NC ⑤ FOIT5002NO/NC ⑥ FOIT5002NONCBN	III& III+N/IV DITC400NO3/3N DITC250/630NC3 DITC400NO4 DITC250/630NC4	CBITC250/400 (1 par borne)	CPTITC400/3 CPTITC400/3N/4 CPTITC400/3N/4	extérieure avec un écran de Protection	PERNIT500/1600 PERJIT500/1600	A430ITC50/160 (L = 395 mm)
	DIN3 630A III/III+N/IV		III& III+N/IV DITC630NO3/3N DITC250/630NC3 DITC630NO4 DITC250/630NC4	CBIT1000/1600 (1 par borne)	CPTITC630/3 CPTITC630/3N/4 CPTITC630/3N/4	against accidental contact	PERNIT500/1600 PERJIT500/1600	
LATÉRALE	00 63A III/III+N/IV	① FOITC32/160NC ① FOIT25/125ETNC	=====	Intégré	Intégré		PENITC50/160 PERJIT50/160	A290ITC50/160 (L = 290 mm)
	00 160A III/III+N/IV	① FOITC32/160NC ① FOIT25/125ETNC	=====	Intégré	Intégré		PENITC50/160 +MANCHONRALAXE6 PERJITC50/160 +MANCHONRALAXE6	A430ITC50/160 (L = 430 mm)
	DIN1 250A III/III+N/IV	③ FOIT500NO/NC ⑤ FOIT5002NO/NC	III& III+N/IV DITC250NO3/3N DITC250/630NC3 DITC250NO4 DITC250/630NC4	CBITC250/400 (1 par borne)	PTITC250/3 CPTITC250/3N/4 CPTITC250/3N/4	PILRIT500ITC250 (red)	PELRIT500ITC250 (red)	A465IT500ITC250 (L = 465mm)
	DIN2 400A III/III+N/IV	⑥ FOIT5002NONCBN	III& III+N/IV DITC400NO3/3N DITC250/630NC3 DITC400NO4 DITC250/630NC4	CBITC250/400 (1 par borne)	CPTITC400/3 CPTITC400/3N/4 CPTITC400/3N/4	PILRIT500ITC250 (red)	PELRIT500ITC250 (red)	

Control handle dimensions – Front control handle

Ref. number	Modèle d'interrupteur	A mm	B mm	C mm	D mm	L mm	n mm	Weight (kg)	Drawing	Cat. Number
M 209909 N 209910	ITC 63D ITC 160	-	-	45	-	80	6	0,1	1	PENITC32/160 PERJIT160
Q 209912 R 209913	TC 250D ITC 400D ITC 630D	-	-	45	-	145	12	0,2	1	PERNIT500/1600 PERJIT500/1600



Complete, ready-to-install switches

Switches with direct handle and outside handle (1) + auxiliary pre-isolating microswitches (2 NO + 2 NC) + protection from accidental contact (terminals and fuses)

Switch with front control handle

Rated current (A)	Pole	Designation	Ref. number	Catalog Number
63A	3	ITC 63CIII T00 CF/N&R SF	M235347	ITC63C3CFNSF
	3 + N	ITC 63CIII+N T00 CF/N&R SF	N235348	ICT63C3NCFNSF
	4	ITC 63CIV T00 CF/N&R SF	P235349	ITC63C4CFNSF
160A	3	ITC 160CIII T00 CF/N&R SF	T235353	ITC160C3CFNSF
	3 + N	ITC 160CIII+N T00 CF/N&R SF	V235354	ITC160C3NCFNSF
	4	ITC 160CIV T00 CF/N&R SF	W235355	ITC160C4CFNSF
250A	3	ITC 250CIII T1 CF/N&R SF	A235359	ITC250C3CFNSF
	3 + N	ITC 250CIII+N T1 CF/N&R SF	B235360	ITC250C3NCFNSF
	4	ITC 250CIV T1 CF/N&R SF	C235361	ITC250C4CFNSF
400A	3	ITC 400CIII T2 CF/N&R SF	N235371	ITC400C3CFNSF
	3 + N	ITC 400CIII+N T2 CF/N&R SF	P235372	ITC400C3NCFNSF
	4	ITC 400CIV T2 CF/N&R SF	Q235373	ITC400C4CFNSF
630A	3	ITC 630CIII T3 CF/N&R SF	B235383	ITC630C3CFNSF
	3 + N	ITC 630CIII+N T3 CF/N&R SF	C235384	ITC630C3NCFNSF
	4	ITC 630CIV T3 CF/N&R SF	D235385	ITC630C4CFNSF

Switches with side handle

Rated current (A)	Pole	Designation	Ref. number	Catalog Number
63A	3	ITC 63CIII T00 CL/N&R SF	Q235350	ITC63C3CLNSF
	3 + N	ITC 63CIII+N T00 CL/N&R SF	R235351	ICT63C3NCLNSF
	4	ITC 63CIV T00 CL/N&R SF	S235352	ITC63C4CLNSF
160A	3	ITC 160CIII T00 CL/N&R SF	X235356	ITC160C3CLNSF
	3 + N	ITC 160CIII+N T00 CL/N&R SF	Y235357	ITC160C3NCLNSF
	4	ITC 160CIV T00 CL/N&R SF	Z235358	ITC160C4CLNSF
250A	3	ITC 250CIII T1 CL/N&R SF	G235365	ITC250C3CLNSF
	3 + N	ITC 250CIII+N T1 CL/N&R SF	H235366	ITC250C3NCLNSF
	4	ITC 250CIV T1 CL/N&R SF	J235367	ITC250C4CLNSF
400A	3	ITC 400CIII T2 CL/N&R SF	V235377	ITC400C3CLNSF
	3 + N	ITC 400CIII+N T2 CL/N&R SF	W235378	ITC400C3NCLNSF
	4	ITC 400CIV T2 CL/N&R SF	X235379	ITC400C4CLNSF

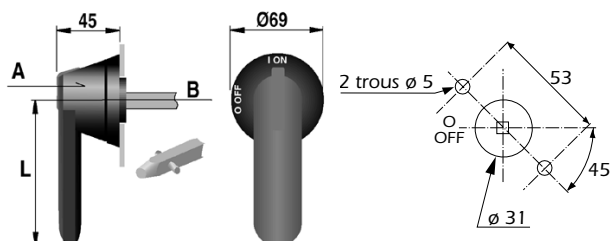
(1) length of outside handle shaft: 63A = 430 mm, 160A = 430 mm, 250A = 395 mm, 400A = 395 mm, 630A = 395 mm

Outside control handle dimensions

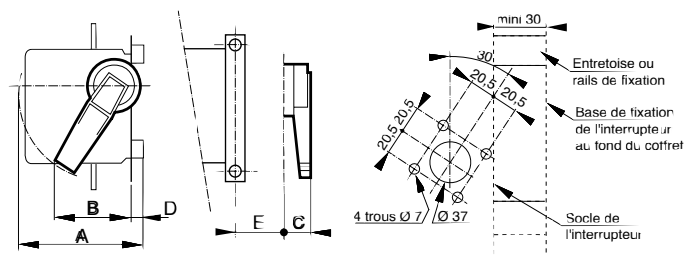
Padlockable outside side handle

Ref. number	Switch model	A mm	B mm	C mm	D mm	L mm	n mm	Weight (kg)	Drawing	Cat. Number
D 210085	ITC 63DS	-	-	45	-	80	6	0,1	2	PENITC50/160
E 210096	ITC 160M	-	-	45	-	80	6	0,1	2	PERITC50/160
Y 090940	ITC 250DM ITC 400DM	202	170	55	30	145	12	0,75	3	PELRIT500ITC250

DRAWING 2



DRAWING 3



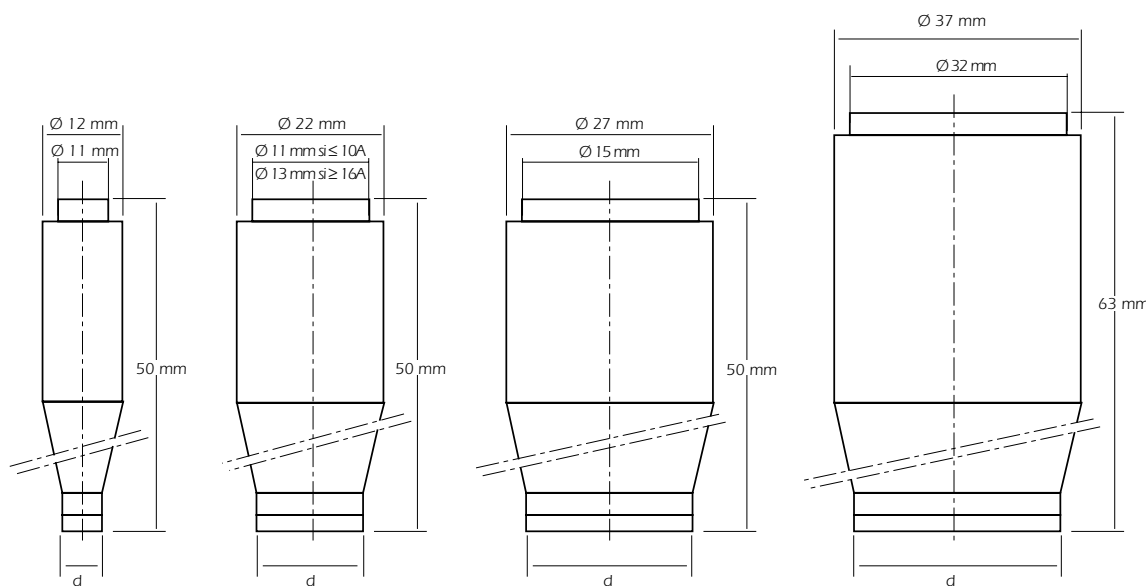
D gG fuses - NDZ, DII, DIII, DIV, DV

Size	Current (A)	Voltage (V)	Color Code	Ref. number	Cat. Number	Pckg
NDZ	2	500V	pink	W212539E	NDZGG50V2	5
NDZ	4	500V	brown	G213055E	NDZGG50V4	5
NDZ	6	500V	green	C213557E	NDZGG50V6	5
NDZ	10	500V	red	B214062E	NDZGG50V10	5
NDZ	16	500V	grey	J214575E	NDZGG50V16	5
NDZ	20	500V	blue	Q215087E	NDZGG50V25	5
NDZ	25	500V	yellow	Q215593E	NDZGG50V25	5
DII	2	500V	pink	Z219718E	DIIGG50V2	5
DII	4	500V	brown	G222163E	DIIGG50V4	5
DII	6	500V	green	B222917E	DIIGG50V6	5
DII	10/6*	500V	red	D213558E	DIIGG50V10/6F	5
DII	10	500V	red	K200707E	DIIGG50V10	5
DII	16	500V	grey	K201765E	DIIGG50V16	5
DII	20	500V	blue	A211508E	DIIGG50V20	5
DII	25	500V	yellow	X212540E	DIIGG50V25	5
DIII	35	500V	black	C214063E	DIIGG50V35	5
DIII	50	500V	white	K214576E	DIIGG50V50	5
DIII	63	500V	copper	R215088E	DIIGG50V63	5
DIV	80	500V	silver	V216609J	DIVGG50V80	10
DIV	100	500V	red	M217637J	DIVGG50V100	10
DV	125	500V	yellow	V218150J	DVGG50V125	10
DV	160	500V	copper	G218667J	DVGG50V160	10
DV	200	500V	blue	W219186J	DVGG50V200	10



Ref. B214062E

* with base contact stud for 6A (without VDE test mark).



Type	NDZ	DII	DIII	DIV
plug diameters	E16	E27	E33	R 1 1/4
d	There is a standardized diameter d for each fuse rating			

Functions

gG industrial fuses – German DIN standard - D EN 60269-1 and 2-1 compliant.
 Old standard (D) on dimensions to mechanically ensure non-interchangeability of ratings.
 Protection for power cables and equipment except motors.
 Selective coordination between two fuses two ratings apart (e.g. 16A and 10A).

Being replaced by NEOZED fuses.
 This single curve replaces previous curves (Träge and Flink).

Applications

Protection at all levels of power distribution.
 Mains, branch circuits, service entrance and point of use equipment.



Bases for D fuses

Snap-on mounting 500VAC/ 690VAC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
w/o protection against accidental contact						
DII	25	1*	6	K207055		15
DIII	63	4*	16	V215597		15
with protection against accidental contact						
DII	25	1	6	D211511		10
DIII	63	4	16	C216110		10

Screw mounting 500VAC/690VAC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
w/o protection against accidental contact						
DII	25	1*	6	K218670		15
DIII	63	4*	16	H212021		15
with protection against accidental contact						
DII	25	1*	6	Z219189		10
DIII	63	4*	16	A212543		10

Screw caps for D fuses

690VAC model



Size	Rated current (A)	Ref. number	Cat. Number	Pckg
D III	63	L218671		25

500VAC porcelain and plastic models



Size	Rated current (A)	Vis	Ref. number	Cat. Number	Pckg
Porcelain with testing hole					
DII	25	E 27	E218619		20
DIII	63	E 33	B213004		20
Porcelain w/o testing hole					
NDZ	25	E 16	Z216613		50
DII	25	E 27	Z218108		20
DIII	63	E 33	F211973		20
DIV	100	R11/4	Y216060		10
Plastic with testing hole					
DII	25	E 27	L201720		20
DII	63	E 33	E214019		20

Gauge piece for D fuse

Size	Rated current (A)	Gauge piece color	Ref. number	Cat. Number	Pckg
NDZ	2	pink	B212544		50
NDZ	4	brown	M213060		50
NDZ	6	green	H213562		50
NDZ	10	red	G214067		50
NDZ	16	grey	P214580		50



Screw gauge pieces for D fuses (DII/DIII)

Size	Rated current (A)	Gauge piece color	Ref. number	Cat. Number	Pckg
D II	2	pink	A219190		25
D II	4	brown	D219722		25
D II	6	green	L222167		25
D II	10	red	F222921		25
D II	16	grey	P200711		25
D II	20	blue	D201253		25
D II	25	yellow	P201769		25
D III	35	black	C207071		25
D III	50	white	E211512		25
D III	63	copper	J212022		25



Gauge rings for D fuses (DII/DIII) in the TRI60 system

Size	Rated current (A)	Gauge piece color	Ref. number	Cat. Number	Pckg
D II	2	pink	W215092		50
D II	4	brown	W215598		50
D II	6	green	D216111		50
D II	10	red	A216614		50
D II	16	grey	M217131		50
D II	20	blue	S217642		50
D II	25	yellow	A218155		50
D III	2	pink	M218672		50
D III	4	brown	E219723		50
D III	6	green	M222168		50
D III	10	red	G222922		50
D III	16	grey	Q200712		50
D III	20	blue	E201254		50
D III	25	yellow	Q201770		50
D III	35	black	L207079		50
D III	50	white	F211513		50



Key for D gauge pieces



Size	Ref. number	Cat.Number	Pckg
DII, DIII	E216112		10

Insulating cover for D fuse bases



Size	Ref. number	Cat.Number	Pckg
Single-pole			
DII (40mm wide)	H214068		30
D III (50 mm wide)	X215093		30
D II (45 mm wide)	O214581		30
D III (54 mm wide)	X215599		30
3-pole			
D II	N213061		8
D II	J213563		8

Touch protection ring for D fuse bases



Size	Ref. number	Cat.Number	Pckg
Plastic			
D II	K222120		50
D III	A222870		50
Porcelain			
D II	C219675		30
D III	K212023		20

Adapter fitting for D fuse



Size	Ref. number	Cat.Number	Pckg
D II/ D III	C212545		50

Locking caps



Size	Ref. number	Cat.Number	Pckg
DII supply boards ¹⁾	B216615*		10
DII Industry ²⁾	N217132		10
DIII supply boards ¹⁾	T217643*		10
DIII Industry ²⁾	B218156		10

* For authorized power utility personnel only

1) red cap with black tip

2) black cap with red tip

Locking keys

Size	Ref. number	Cat.Number	Pckg
supply boards	K213564*		10
Industry	J214069		10

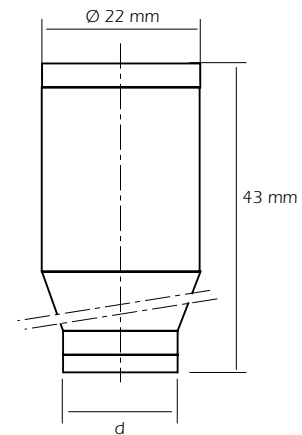
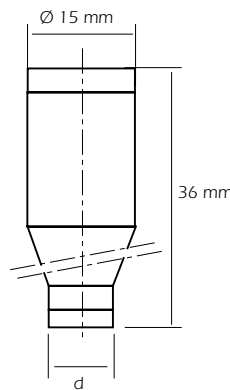
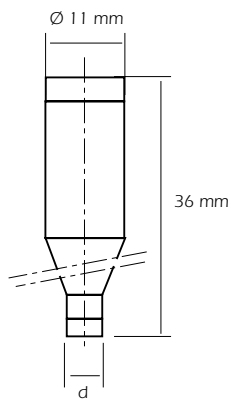
* For authorized power utility personnel only

Neozed gG - D01, D02, D03

Size	Current (A)	Voltage (V)	Color Code	Ref. number	Cat.Number	Pckg
D01	2	400V AC / 250V DC	pink	T214676J	D01GG40V2	10
D01	4	400V AC / 250V DC	brown	W200809J	D01GG40V4	10
D01	6	400V AC / 250V DC	green	B215695J	D01GG40V6	10
D01	10	400V AC / 250V DC	red	W211090J	D01GG40V10	10
D01	13	400V AC / 250V DC	black	C201206J	D01GG40V13	10
D01	16	400V AC / 250V DC	grey	R223023J	D01GG40V16	10
D02	20	400V AC / 250V DC	blue	B217742J	D02GG40V20	10
D02	25	400V AC / 250V DC	yellow	W213160J	D02GG40V25	10
D02	35	400V AC / 250V DC	black	R219826J	D02GG40V35	10
D02	50	400V AC / 250V DC	white	D215191J	D02GG40V50	10
D02	63	400V AC / 250V DC	copper	C201873J	D02GG40V63	10
D03	80	400V AC / 250V DC	silver	L216716J	D03GG40V80	10
D03	100	400V AC / 250V DC	red	N212647J	D03GG40V100	10



Ref. W211090J



Type	D01	D02	DD03
plug diameters	E14	E18	M 30x2
d	There is a standardized diameter d for each fuse rating		

Neozed aM - D02

Size	Current (A)	Voltage (V)	Color Code	Ref. number	Cat.Number	Pckg
D02 aM	20	400V AC / 440V DC	blue	H211607J	D02AM44V20	10
D02 aM	25	400V AC / 440V DC	yellow	F212640J	D02AM44V25	10
D02 aM	35	400V AC / 440V DC	black	J213655J	D02AM44V35	10

Functions

gG industrial fuses – German DIN standard - D EN 60269-1 and 2-1 compliant.
 New D0 standard on dimensions to mechanically ensure non-interchangeability of ratings by means of color coded gauge rings for different fuse diameters.
 Protection of power cables and equipment except electric motors (gG) and of electric motors (aM).
 Selective coordination between two fuses two ratings apart (e.g. 16A and 10A).

Applications

Protection at all levels of power distribution.
 Mains, branch circuits, service entrance and point of use equipment (gG).
 Protection for all low voltage electrical motors with direct-on-line start (aM).



Neozed insulating covers

Snap-on mounting 500VAC/690VAC



Type	Ref. number	Cat. Number	Pckg
for type DO1/DO2			
with marking on one side	M222881		50
with marking area	V200670		50
for type DO3			
w/o marking area	V211986		20
for type DO1/DO2			
cover	X201730		20
for type DO1/DO2 3-pole			
with marking area	M216579		20

Bases for Neozed fuses

Screw mounting w/o cover for protection from accidental contact 400V AC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1 (1*)	4	Z216061		20
D02	63	1 (2*)	25	M214532		20
D02	63	1 (4*)	25	F213008		20
D03	100	1 (4*)	50	J213011		10
D01	16	3 (1*)	4	K200661		5
D02	63	3 (2*)	25	F216573		5
D02	63	3 (4*)	25	K206365		5

Snap-on mounting w/o cover for protection from accidental contact 400V AC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1 (1*)	4	J200660		20
D02	63	1 (2*)	25	J218623		20
D02	63	1 (4*)	25	W215552		20
D03	100	1 (4*)	50	Q214535		10
D01	16	3 (1*)	4	B216063		5
D02	63	3 (2*)	25	Y217601		5
D02	63	3 (4*)	25	M211979		5

Snap-on mounting with cover for protection from accidental contact



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1 (1*)	4	B211463		20
D01	16	1 (3*)	4	T215550		20
D01	16	3 (1*)	4	A219144		5
D02	63	1 (2*)	25	M200663		20
D02	63	1 (4*)	25	K218624		20
D02	63	3 (2*)	25	E222874		5
D02	63	3 (4*)	25	K213518		5
D03	100	1 (4*)	50	F216067		10

Plastic Neozed screw caps

400 VAC / 440 VAC

Size	Rated current (A)	Cap thread	Ref. number	Cat. Number	Pckg
With testing hole					
D01	16	E 14	E212501		20
D02	63	E 18	P211981		20
For DO1 fuses with adapter spring					
D02		E 18	M214026		20
With sealable hole and testing hole					
D01	16	E 14	R214536		20
D02	63	E 18	S214537		20
W/o testing hole					
D02	63	E 18	L206435		20



Porcelain Neozed screw caps

400 VAC / 440 VAC

Size	Rated current (A)	Cap Thread	Ref. number	Cat. Number	Pckg
With testing hole					
D01	16	E 14	H201211		20
D02	63	E 18	T215044		20
W/o testing hole					
D03	100	M30 x 2	V215045		20



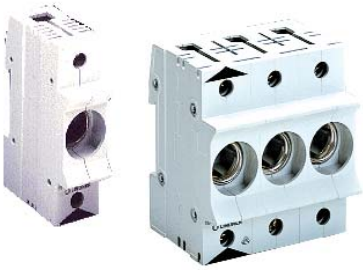
Gauge ring

Size	Rated current (A)	Cap Thread	Ref. number	Cat. Number	Pckg
D01	2	pink	J216576		50
D01	4	brown	J219681		50
D01	6	green	P206438		50
D01	10	red	M213014		50
D02	2	pink	K216577*		50
D02	4	brown	S222127*		50
D02	6	green	R211983*		50
D02	10	red	H216069*		50
D02	16	grey	O218629*		50
D02	20	blue	S200668		50
D02	25	yellow	R213524		50
D02	35	black	J216070		50
D02	50	white	R218630		50
D03	80	silver	T200669		25



Linozed fuse bases

Snap-on mounting 500 VAC/690 VAC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1	35	M217085		6
D02	63	1	35	R215042		6
D01	16	3	35	E201208		2
D02	63	3	35	Y215554		2

Dual function terminals

Neozed universal fuse bases

Screw mounting 400 VAC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1 (1*)	4	B222871		20
D02	63	1 (2*)	25	D216571		20
63	1 (4*)	25	01721.430000	Q215041		20
D03	100	1 (4*)	50	K214024		10
D01	16	1 (1*)	4	G213515		20
D02	63	1 (2*)	25	L211978		20
D02	63	1 (4*)	25	G213009		20
D03	100	1 (4*)	50	H219680		10

Neozed 3-pole fuse bases

W/o protection against accidental contact 400 VAC



Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
Screw mounting						
D01	16	3 (1*)	4	A212497		5
D02	63	3 (2*)	25	Z217602		5
Snap-on mounting						
D01	16	3 (1*)	4	E213007		5
D02	63	3 (2*)	25	B218110		5

Neozed single-pole fuse bases

W/o protection against accidental contact 400 VAC

Clamped mounting



Snap-on mounting

Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
Clamped mounting on 12 x 4...5mm, 15 x 4...5 mm busbar						
D02	63	1 (2*)	25	P222124		20
Clamped mounting on 12 x 4...10mm, 15 x 4...10 mm busbar						
D02	63	1 (2*)	25	L218625		20
Snap-on mounting on 15 x 5 mm busbar						
D02	63	1 (2*)	25	G219679		20

Neozed gG 2-63A 440 VAC, 250 VDC fuses

440 VAC, 250 VDC

Size	Rated current (A)	Gauge ring code	Ref. number	Cat. Number	Pckg
D01	2	pink	E218780	D01GG44V2	50
D01	4	brown	V219829	D01GG44V4	50
D01	6	green	X223028	D01GG44V6	50
D01	10	red	S201358	D01GG44V10	50
D02	20	blue	X212126	D02GG44V20	50
D02	25	yellow	S213663	D02GG44V25	50
D02	35	black	C214684	D02GG44V35	50
D02	50	white	J215702	D02GG44V50	50
D02	63	copper	N216718	D02GG44V63	50



Neozed fuse bases

Snap-on mounting w/o cover for protection from accidental contact 440V AC

Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1 (1*)	4	D201207		20
D02	63	1 (2*)	25	M222122		20
D02	63	1 (4*)	25	C216064		20
D01	16	3 (1*)	4	C216570		5
D02	63	3 (2*)	25	A218109		5
D02	63	3 (4*)	25	C212499		5



Linozed fuse bases

Snap-on mounting 440 VAC

Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	1	35	X217600		6
D02	63	1	35	X215553		6



Linozed fuse bases, dual function clamps

Snap-on mounting 440 VAC

Size	Rated current (A)	Pole	Max. wire cross-section mm ²	Ref. number	Cat. Number	Pckg
D01	16	3	35	P201723		2
D02	63	3	35	E216066		2



DIN D0 gG fuses



Neozed holding spring



Size	Ref. number	Cat.Number	Pckg
For DO1 fuses in DO2 bases	Z215049		50
For DO1 fuses in DO2 bases	P214028		10
For DO1 fuses in DL bases	J218117		100

Neozed spacer



Size	Ref. number	Cat.Number	Pckg
For DO2 fuses in DO3 bases	T211985		10

Gauge ring key



Size	Ref. number	Cat.Number	Pckg
For DO1, DO2, DO3	J212505		10

Neozed screw cap remover



Size	Ref. number	Cat.Number	Pckg
Plastic screw caps DO1, DO2	X222936		1
	F200726		1

Neozed locking caps



Size	Ref. number	Cat.Number	Pckg
DO1 supply boards (1)	D212546*		25
DO1 Industry (2)	P213062		25
DO2 supply boards (1)	R214582*		25
DO2 Industry (2)	Y215094		25

* For authorized power utility personnel only
 1) red cap with black tip
 2) black cap with red tip

Neozed locking keys

Size	Ref. number	Cat.Number	Pckg
DO2 supply boards	K213564		10
DO2 Industry	J214069		10

* For authorized power utility personnel only



Bases for Innozed fuses

Screw mounting 400 VAC

Size	Rated current (A)	Pole	Ref. number	Cat. Number	Weight (g)	Pckg
D01	16	1	R228175K		75	12
D01	16	3	S228176D		223	4
D02	63	1	W228179K		77	12
D02	63	3	X228180D		229	4



Bases for Innozed fuses

Snap-on mounting with no protective cover 400 VAC

Size	Rated current (A)	Pole	Ref. number	Cat. Number	Weight (g)	Pckg
D01	16	1	F228257K		70	12
D01	16	3	K228261K		210	4
D02	63	1	G228258D		72	12
D02	63	3	L228262D		217	4

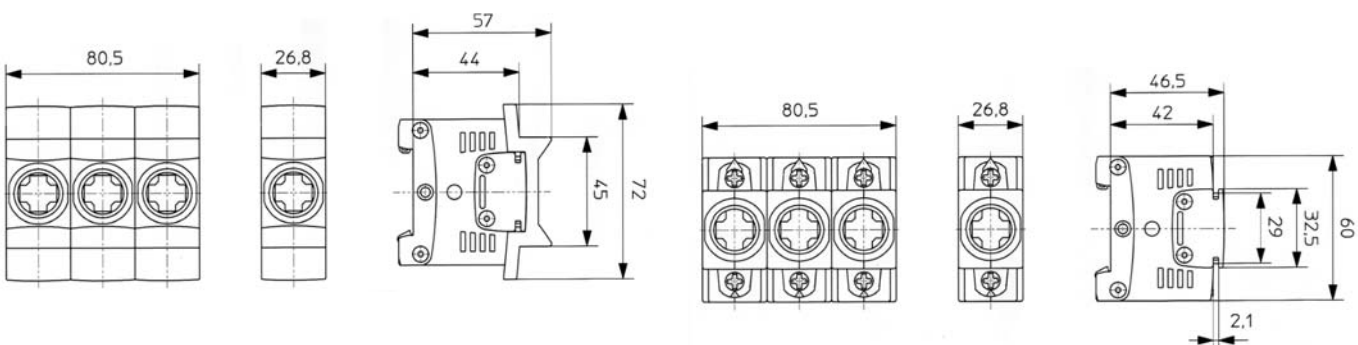


Covers for Innozed

Size	Rated current (A)	Pole	Ref. number	Cat. Number	Weight (g)	Pckg
D01/ D02		1	A228183AP		5	24
D01/ D02		3	B228184K		12	12



Dimensions of Innozed bases



D0 Linocur switch disconnectors, D01



Size	Pole	Number of modules	Max. wire cross-section (mm ²)	Ref. number	Cat. Number	Pckg
up to 16 A	1	1	6	V213021		5
up to 16 A	2	2	6	E215560		2
up to 16 A	3	3	6	M216073		1

D0 Linocur switch disconnectors, D02

Snap-on mounting on DIN rails as per DIN EN50022



Size	Pole	Number of modules	Max. wire cross-section (mm ²)	Ref. number	Cat. Number	Pckg
up to 16 A*	1	1,5	35	P222883		3
up to 16 A*	1+N	3	35	Z200674		2
up to 16 A*	2	3	35	D215053		2
up to 16 A*	3	4,5	35	T219690		1
up to 16 A*	3+N	6	35	A214544		1
Dummy fuse D02				F215055		1

dual function terminals

D0 made-to-order Linocur switch disconnectors

440 VAC, D02

Snap-on mounting on top-hat rails as per DIN EN50022



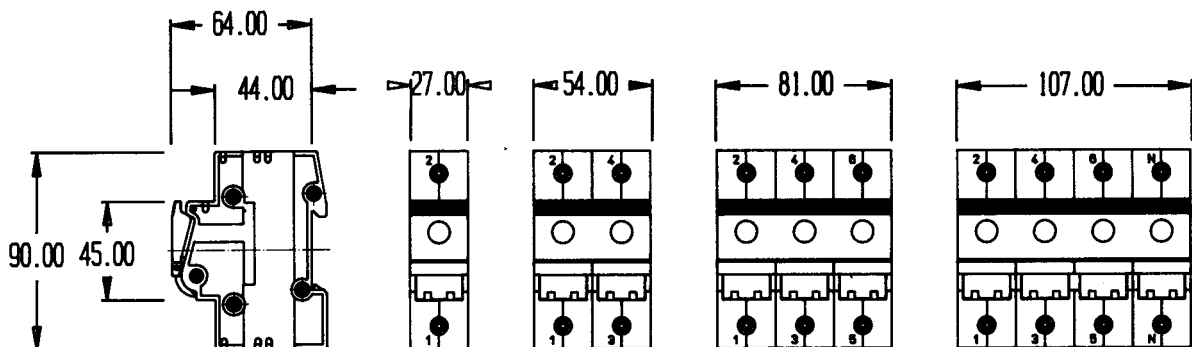
Size	Pole	Number of modules	Max. wire cross-section (mm ²)	Ref. number	Cat. Number	Pckg
up to 16 A*	1	1,5	35	C215052		3
up to 16 A*	2	3	35	N216074		2
up to 16 A*	3	4,5	35	Z211990		2
up to 16 A*	3+N	6	35	P216075		1

dual function terminals

* Linocur is available on request in 25, 35 and 50 A with permanently fitted and non-interchangeable adapter sleeves. In 1+N and 3+N versions, the N conductor leads when making and lags when breaking.

* Order Neozed fuses and adapter sleeves as options.

dimensions of Linocur switch disconnectors



Replacement insulating D0 LINOCUR

screw cap with testing hole

For bases	Rated current (A)	Rating / Color code	Ref. number	Cat. Number	Pckg
With testing hole					
D02	63	E18	C214546		10
W/o testing hole					
D02	63	E18	Y213024		10
D01	16	E14	V219691		20

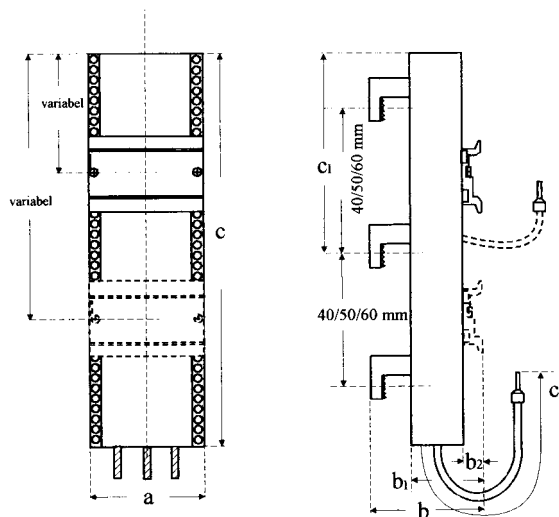


Adapter for 40, 50 or 60 mm busbar systems

Size	Rated current (A)	Cap Thread	Ref. number	Cat. Number	Pckg
40 mm 3 x 63 A system					
Mono-A.	adjustable	1	E201783		1
Mono-A.	adjustable	1	W219692		1
Dual-A.	adjustable	2	R212512		1
Dual-A.	adjustable	2 middle	C201735		1
50 mm 3 x 63 A system					
Mono-A.	adjustable	1	A222134		1
Dual-A.	adjustable	2	Z213025		1
Dual-A.	adjustable	2 middle	V206604		1
60 mm 3 x 63 A system					
Mono-A.	adjustable	1	T222887		1
Dual-A.	adjustable	2	X213529		1
Dual-A.	adjustable	2 middle	Q211476		1
Dual-A.	adjustable	1	D214547		1
Dual-support	adjustable	0	G215056		1

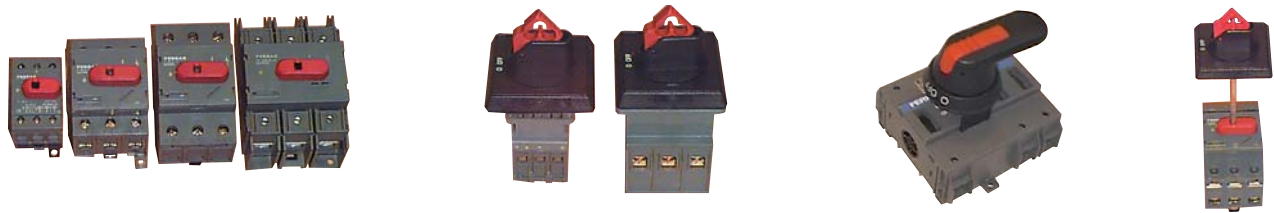


dimensions of adapters for busbar systems



IT switch disconnectors

Modular switch disconnectors and accessories



Ref. number

Calibre Ith	Nb de Pole	Designation	Ref. number	Poignée intérieure non cadenassable	Poignée extérieure cadenassable 3 cadenas Ø 8mm IP65	Axe nécessaire pour poignée extérieure	Contact auxiliaire 1 NC	Contact auxiliaire 1 NO	4 ^{ème} -pole réservé aux appareils tripolaires. Se place to droite ou to gauche
Montage sur rail DIN ou vissé sur platine. IT avec indicateur d'interruption.									
25 A	3/4	IT 25E III IT 25E IV	F210064 G210065	Livré avec l'appareil (poignée red)	N207702 (red & yellow) H208571 (Black) (Axe obligatoire)	M207701 (L = 130 mm) T208558 (L = 330 mm)	M207494 Possibilité d'encliqueter 2 contacts maxi D210453 Microswitch double NO&NC	L207493 Placé to droite	S208120 <small>Impossible sur Tétrapolaires</small>
32 A	3/4	IT 32E III IT 32E IV	D207486 E207487						S208120 <small>Impossible sur Tétrapolaires</small>
50 A	3/4	IT 50E III IT 50E IV	F207488 G207489						T208121 <small>Impossible sur Tétrapolaires</small>
63 A	3/4	IT 63E III IT 63E IV	H207490 J207491						T208121 <small>Impossible sur Tétrapolaires</small>
80 A	3/4	IT 80E III IT 80E IV	B208956 C208957						F208960 <small>Impossible sur Tétrapolaires</small>
125 A	3/4	IT 125E III IT 125E IV	D208958 E208959						G208961 <small>Impossible sur Tétrapolaires</small>
Montage sur rail DIN ou vissé sur platine. IT to coupure visible.									
160 A	3/4	IT 160E III IT 160E IV	D208107 E208108	G208110 Poignée black (pas de micro contact)	M209909 (black) (Axe obligatoire) N209910 (red & yellow)	B210106 (L = 290 mm)	L208114 Utiliser obligatoirement un support K208113 pour permettre le montage de 1 to 6 contacts auxiliaires (maxi 3NO+3 NC). Ne peut être monté avec la poignée intérieure	M208115	F208109 <small>Impossible sur Tétrapolaires</small> Montage sur côté gauche uniquement (voir schémas)

Catalog Number

Calibre Ith	Nb de Pole	Designation	Ref. number	Poignée intérieure non cadenassable	Poignée extérieure cadenassable 3 cadenas Ø 8mm IP65	Axe nécessaire pour poignée extérieure	Contact auxiliaire 1 NC	Contact auxiliaire 1 NO	4 ^{ème} -pole réservé aux appareils tripolaires. Se place to droite ou to gauche
Montage sur rail DIN ou vissé sur platine. IT IT avec indicateur d'interruption									
25 A	3/4	IT 25E III IT 25E IV	IT25S3CF IT25S4CF	Livré avec l'appareil (poignée red)	PINIT25/125 (red & yellow) PIRIT25/125 (Black) (Axe obligatoire)	A130IT25/125 (L = 130 mm) AIT330 (L = 330 mm)	FOIT25/125ETNO Possibilité d'encliqueter 2 contacts maxi FOIT25/125 INV Microswitch double NO&NC	FOIT25/125ETNC Placé to droite	4PIT25/32 <small>Impossible sur Tétrapolaires</small>
32 A	3/4	IT 32E III IT 32E IV	IT32S3CF IT32S4CF						4PIT25/32 <small>Impossible sur Tétrapolaires</small>
50 A	3/4	IT 50E III IT 50E IV	IT50S3CF IT50S4CF						4PIT50/63 <small>Impossible sur Tétrapolaires</small>
63 A	3/4	IT 63E III IT 63E IV	IT63S3CF IT63S4CF						4PIT50/63 <small>Impossible sur Tétrapolaires</small>
80 A	3/4	IT 80E III IT 80E IV	IT80S3CF IT80S4CF						4PIT80 <small>Impossible sur Tétrapolaires</small>
125 A	3/4	IT 125E III IT 125E IV	IT125S3CF IT125S4CF						4PIT125 <small>Impossible sur Tétrapolaires</small>
Montage sur rail DIN ou vissé sur platine. IT to coupure visible.									
160 A	3/4	IT 160E III IT 160E IV	IT160S3CF IT160S4CF	PIRIT160 Poignée black (pas de micro contact)	PENITC32/160 (black) (Axe obligatoire) PERJIT160 (red & yellow)	A290ITC50/160 (L = 290 mm)	FOIT160NC Utiliser obligatoirement un support K208113 pour permettre le montage de 1 to 6 contacts auxiliaires (maxi 3NO+3 NC). Ne peut être monté avec la poignée intérieure	FOIT160NO	4PIT160 <small>Impossible sur Tétrapolaires</small> Montage sur côté gauche uniquement (voir schémas)

Ready to install switch disconnectors

Switch + inside handle + outside handle + pre-isolation (1NO-1NC).

N&R: black and red handle – J&R: yellow and red handle

Rating Ith	Pole	Designation	Ref. number	Cat. Number
25A	3	IT 25 CIII Cde Front N&R	D 235201	IT25C3CFN
25A	4	IT 25 CIV Cde Front N&R	E 235202	IT25C4CFN
25A	3	IT 25 CIII Cde Front J&R	F 235203	IT25C3CFJ
25A	4	IT 25 CIV Cde Front J&R	G 235204	IT25C4CFJ
32A	3	IT 32 CIII Cde Front N&R	H 235205	IT32C3CFN
32A	4	IT 32 CIV Cde Front N&R	J 235206	IT32C4CFN
32A	3	IT 32 CIII Cde Front J&R	K 235207	IT32C3CFJ
32A	4	IT 32 CIV Cde Front J&R	L 235208	IT32C4CFJ
50A	3	IT 50 CIII Cde Front N&R	R 235213	IT50C3CFN
50A	4	IT 50 CIV Cde Front N&R	S 235214	IT50C4CFN
50A	3	IT 50 CIII Cde Front J&R	T 235215	IT50C3CFJ
50A	4	IT 50 CIV Cde Front J&R	V 235216	IT50C4CFJ
63A	3	IT 63 CIII Cde Front N&R	A 235221	IT63C3CFN
63A	4	IT 63 CIV Cde Front N&R	B 235222	IT63C4CFN
63A	3	IT 63 CIII Cde Front J&R	C 235223	IT63C3CFJ
63A	4	IT 63 CIV Cde Front J&R	D 235224	IT63C4CFJ
80A	3	IT 80 CIII Cde Front N&R	J 235229	IT80C3CFN
80A	4	IT 80 CIV Cde Front N&R	K 235230	IT80C4CFN
80A	3	IT 80 CIII Cde Front J&R	L 235231	IT80C3CFJ
80A	4	IT 80 CIV Cde Front J&R	M 235232	IT80C4CFJ
125A	3	IT 125 CIII Cde Front N&R	S 235237	IT125C3CFN
125A	4	IT 125 CIV Cde Front N&R	T 235238	IT125C4CFN
125A	3	IT 125 CIII Cde Front J&R	V 235239	IT125C3CFJ
125A	4	IT 125 CIV Cde Front J&R	W 235240	IT125C4CFJ
160A	3	IT 160 CIII Cde Front N&R	B 235245	IT160C3CFN
160A	4	IT 160 CIV Cde Front N&R	C 235246	IT160C4CFN
160A	3	IT 160 CIII Cde Front J&R	D 235247	IT160C3CFJ
160A	4	IT 160 CIV Cde Front J&R	E 235248	IT160C4CFJ

Outside handle: N&R = black - J&R = yellow and red

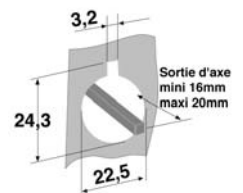
Commandes

Inside handle IT 160 E
G208110

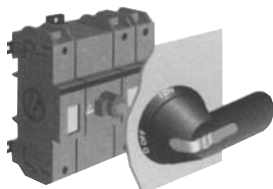


Outside handle
IT 25 to 125
N207702
H208571

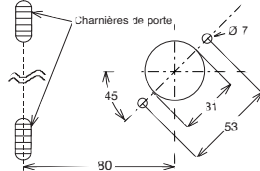
Drilling diagram



Outside handle IT 160 E
M209909
N209910



Drilling diagram



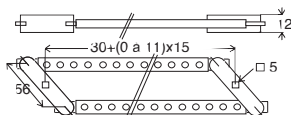
Ø 4 maxi

Locking system
P207496

Accessories for outside control

6 & 8-pole system: N097118 for IT 25 E to 125 E

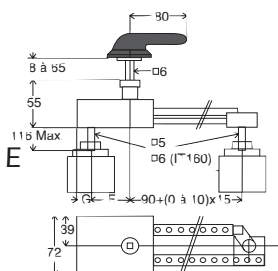
Order with the outside handle and 2 shafts



1-0-2 reversing system:

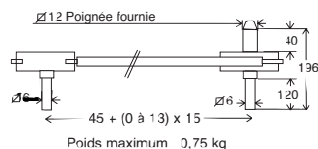
A092598 for IT 25 E to 125 E
T081713 for IT 160 E

Outside handle provided



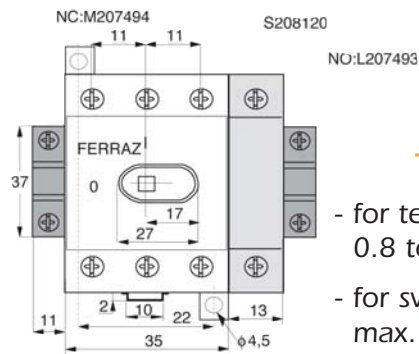
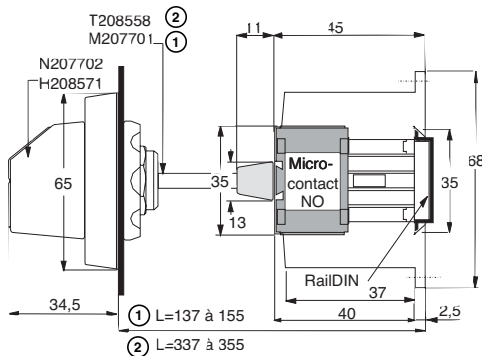
6 & 8-pole system:

A209024 for IT 160 E



Dimensions

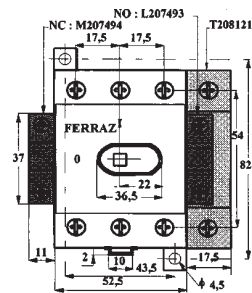
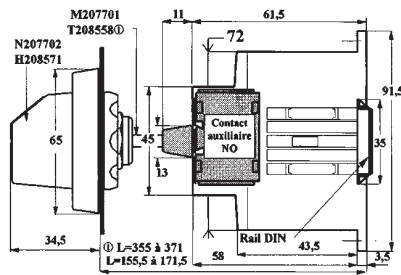
IT 25E - IT 32E



Tightening torques

- for terminals (Pozidrive screws) 0.8 to 0.88 Nm
- for switches (M4 screws) max. 3 Nm

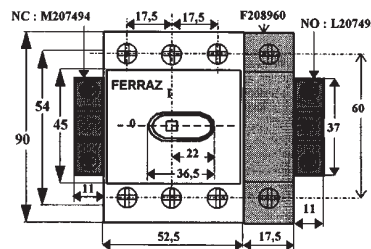
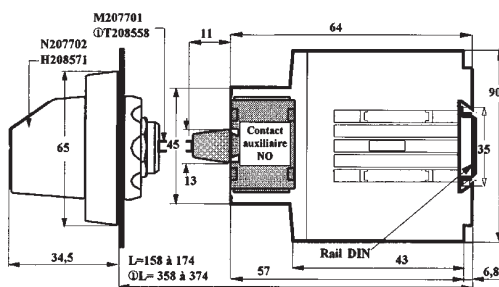
IT 50E - IT 63E



Tightening torques

- for terminals (Pozidrive screws) 2 to 2.2 Nm
- for switches (M4 screws) max. 3 Nm

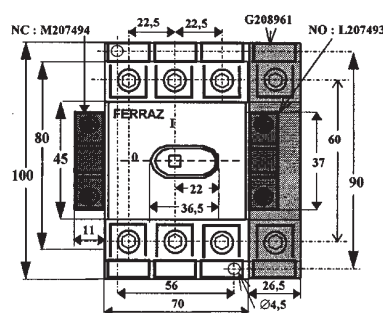
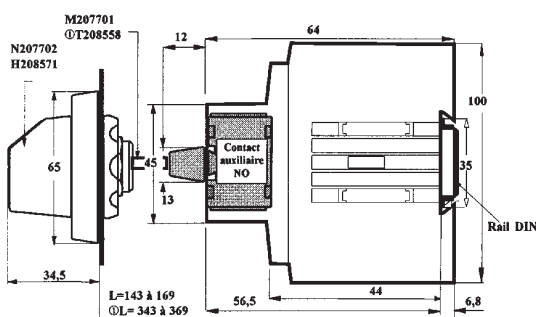
IT 80E



Tightening torques

- for terminals (Pozidrive screws) 2.5 to 2.75 Nm
- for switches (M4 screws) max. 3 Nm

IT 125E

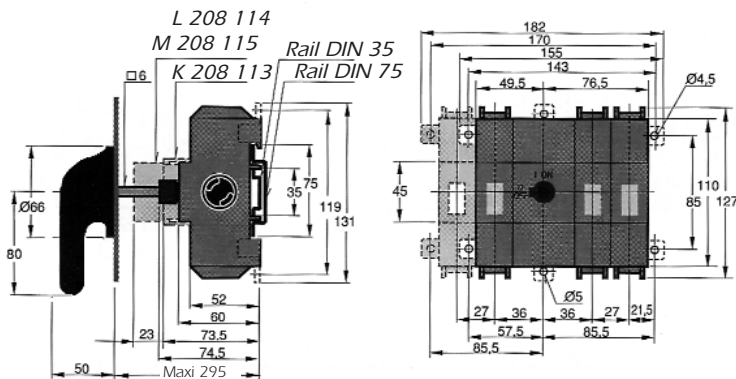


Tightening torques

- for terminals (Pozidrive screws) 6 to 6.6 Nm
- for switches (M4 screws) max. 3 Nm

Dimensions

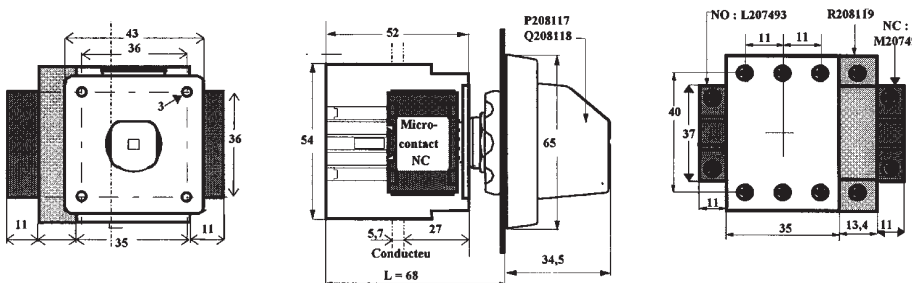
IT 160 E



Tightening torques

- for terminals (Poizdrive screws) 6 to 6.6 Nm
- for switches (M4 screws) max. 3 Nm

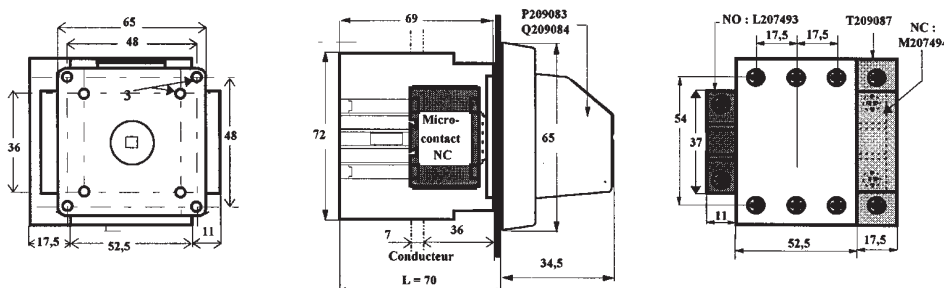
IT 32



Tightening torques

- for terminals (Poizdrive screws) 0.8 to 0.88 Nm
- for switches to be snapped on handles P208117 and Q208118
- for switches to be screwed on via handles P209083 and Q209084 with a max. tightening torque of 0.7 Nm

IT 50 ET 63 ET



Tightening torques

- for terminals (Poizdrive screws) 2 to 2.2 Nm
- for switches to be screwed on via handles P209083 and Q209084 with a max. tightening torque of 0.7 Nm

Ref. number	D207486	E207487	F207488	G207489	H207490	J207491	L207493	M207494	P207496	M207701	N207702	D208107	E208108	F208109	G208110	K096609	K208113	L208114	M208115	N208116
Weight	110 g	150 g	270 g	350 g	270 g	350 g	20 g	20 g	5 g	25 g	70 g	1 kg	1,3 kg	300 g	20 g	50 g	10 g	20 g	20 g	130 g

Ref. number	P208117	Q208118	R208119	S208120	T208121	T208558	H208571	B208956	C208957	D208958	E208959	F208960	G208961	P209083	Q209084	R209085	S209086	T209087	M209909	N209910
Weight	70 g	70 g	30 g	50 g	70 g	70 g	70 g	310 g	450 g	360 g	500 g	140 g	140 g	70 g	70 g	270 g	270 g	80 g	100 g	100 g

FSPDB IP20 modular power distribution blocks

Ferraz Shawmut is launching a whole new concept of safety and easy installation with its new power distribution blocks.

Protection to IP20 standards guarantees safety and eliminates the need for plastic protections.

FSPDBs can be snapped onto a 35mm DIN rail or mounted at the back of a panel, and their modular design makes multipole assemblies easy.

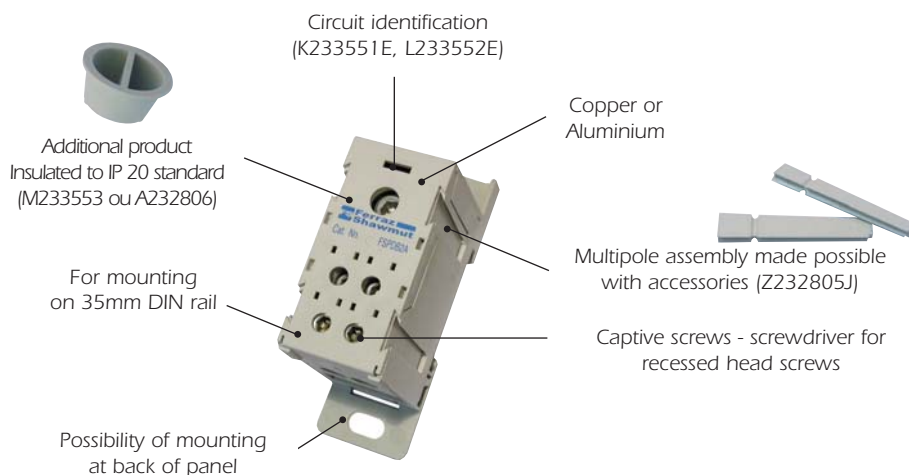
These power distribution blocks offer you a simple way of distributing electricity in cubicles through a wide variety of secondary circuits.

Ref. number	Cat.Number	Nb. wire inlets	Nb. wire outlets	Materials	Pckg
X232803C	FSPDB4A	185mm ² to 16mm ²	185mm ² to 16mm ²	Aluminium	3
R232798C	FSPDB4C	185mm ² to 16mm ²	185mm ² to 16mm ²	Copper	3
D233545C	FSPDB1A	70mm ² to 2,5mm ²	70mm ² to 2,5mm ²	Aluminium	3
N232795C	FSPDB1C	70mm ² to 2,5mm ²	70mm ² to 2,5mm ²	Copper	3
Y232804C	FSPDB5A	2x 300mm ² to 25mm ²	2x 300mm ² to 25mm ²	Aluminium	3
S232799C	FSPDB5C	2x 300mm ² to 25mm ²	2x 300mm ² to 25mm ²	Copper	3
V232801C	FSPDB2A	70mm ² to 2,5mm ²	4x 35mm ² to 2,5mm ²	Aluminium	3
P232796C	FSPDB2C	70mm ² to 2,5mm ²	4x 35mm ² to 2,5mm ²	Copper	3
V232802C		185mm ² to 16mm ² et 70mm ² to 2,5mm ²	8x 35mm ² to 2,5mm ²	Aluminium	3
Q232797C	FSPDB3C	185mm ² to 16mm ² et 70mm ² to 2,5mm ²	8x 35mm ² to 2,5mm ²	Copper	3

Accessories

Ref. number	Cat.Number	Accessoires	Pckg
K233551E	FSCIM1	Labeling accessories for size 1&2 blocks	5
L233552E	FSCIM2	Labeling accessories for size 3&5 blocks	5
Z232805J	FSPIN1	Multi-pole assembly accessories	10 (1)
M233553J	FSCAP2	Hole plugging accessories for size 70mm ²	10 (1)
A232806J	FSCAP1	Hole plugging accessories for sizes > 70mm ²	10 (1)
N233554A	FSEA	Stop	1

(1) bag of 10



6.3 x 23 – 230 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat. number w/o indicator	Ref. number with indicator	Cat. number with indicator	Pckg
6,3 x 23	2	230	N213590J	FR623GG23V2	-		10
6,3 x 23	4	230	Q214098J	FR623GG23V4	-		10
6,3 x 23	6	230	T214607J	FR623GG23V6	-		10
6,3 x 23	10	230	D215628J	FR623GG23V10	-		10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard.

8.5 x 23 - 230 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat. number w/o indicator	Ref. number with indicator	Cat. number with indicator	Pckg
8,5 x 23	2	230	K216140J	FR823GG23V2	N211543J	FR823GG23V2I	10
8,5 x 23	4	230	H216644J	FR823GG23V4	V212055J	FR823GG23V4I	10
8,5 x 23	6	230	V217161J	FR823GG23V6	M212577J	FR823GG23V6I	10
8,5 x 23	10	230	J218186J	FR823GG23V10	X213092J	FR823GG23V10I	10
8,5 x 23	16	230	K219222J	FR823GG23V16	Q213592J	IFR823GG23V16I	10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard.

10.3 x 25,8 - 230 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat. number w/o indicator	Ref. number with indicator	Cat. number with indicator	Pckg
10,3 x 25,8	6	230	M219753J	FR1025GG23V6	S214100J	FR1025GG23V6I	10
10,3 x 25,8	10	230	V222198J	FR1025GG23V10	W214609J	FR1025GG23V10I	10
10,3 x 25,8	16	230	Q222953J	FR1025GG23V16	D215122J	FR1025GG23V16I	10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard.

8.5 x 31,5 - 400 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat. number w/o indicator	Ref. number with indicator	Cat. number with indicator	Pckg
8,5 x 31,5	0,5	400	N201285J	FR831GG40V0.5	-	-	10
8,5 x 31,5	1	400	Y201800J	FR831GG40V1	-	-	10
8,5 x 31,5	2	400	V211020J	FR831GG40V2	K216646J	FR831GG40V2I	10
8,5 x 31,5	4	400	M211542J	FR831GG40V4	X217163J	FR831GG40V4I	10
8,5 x 31,5	6	400	T212054J	FR831GG40V6	B217673J	FR831GG40V6I	10
8,5 x 31,5	8	400	L212576J	FR831GG40V8	L218188J	FR831GG40V8I	10
8,5 x 31,5	10	400	W213091J	FR831GG40V10	Z218706J	FR831GG40V10I	10
8,5 x 31,5	12	400	P213591J	FR831GG40V12	M219224J	FR831GG40V12I	10
8,5 x 31,5	16	400	R214099J	FR831GG40V16	X222200J	FR831GG40V16I	10
8,5 x 31,5	20	400	V214608J	FR831GG40V20	B200745J	FR831GG40V20I	10
8,5 x 31,5	25	400	E215629J	FR831GG40V25	Q201287J	FR831GG40V25I	10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard.

gF/aG residential-use fuses

10.3 x 31,5 - 400 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Pckg
10,3 x 31,5	16	400	L216141J	FR1031GG40V16	A201802J	FR1031GG40V16I	10
10,3 x 31,5	20	400	J216645J	FR1031GG40V20	X211022J	FR1031GG40V20I	10
10,3 x 31,5	25	400	W217162J	FR1031GG40V25	P211544J	FR1031GG40V25I	10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard. mentionnés dans la

8.5 x 36 - 400 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Pckg
8,5 x 36	2	400	A217672J	FR836GG40V2	N212578J	FR836GG40V2I	10
8,5 x 36	4	400	K218187J	FR836GG40V4	Y213093J	FR836GG40V4I	10
8,5 x 36	6	400	Y218705J	FR836GG40V6	R213593J	FR836GG40V6I	10
8,5 x 36	10	400	L219223J	FR836GG40V10	T214101J	FR836GG40V10I	10
8,5 x 36	16	400	N219754J	FR836GG40V16	X214610J	FR836GG40V16I	10
8,5 x 36	20	400	W222199J	FR836GG40V20	E215123J	FR836GG40V20I	10
8,5 x 36	25	400	R222954J	FR836GG40V25	G215631J	FR836GG40V25I	10
8,5 x 36	32	400	A200744J	FR836GG40V32	N216143J	FR836GG40V32I	10

10.3 x 38 - 400 V



Size	Current (A)	Voltage (V)	Ref. number w/o indicator	Cat.number w/o indicator	Ref. number with indicator	Cat.number with indicator	Pckg
10,3 x 38	25	400	P201286J	FR1038GG40V25	L216647J	FR1038GG40V25I	10
10,3 x 38	32	400	Z201801J	FR1038GG40V32	Y217164J	FR1038GG40V32I	10

NF C 61-203 compliant and marked; the other fuse ratings are not mentioned in the standard.



Action du voyant

Functions

Fuse for residential use (housing, apartment buildings).

Applications

General protection for lines, socket outlets, lamps, heating systems, household appliances. Household power boxes, new or renovations.

MSD fuse holders and carriers



Fuse Size	Single-pole w/o indicator 1 module		Single-pole with indicator 1 module		Single-pole+N w/o indicator 1 module		Single-pole+N with indicator 1 module	
8,5 x 23	C217674K	MSD8231	A218707K	MSD8231	N219225K	MSD8231N	T222956K	MSD8231NI
10,3 x 25,8	R201288K	MSD10251	Y211023K	MSD10251I	Q211545K	MSD10251N	Z213094K	MSD10251NI
8,5 x 31,5	V214102K	MSD8311	F215124K	MSD8311	H215632K	MSD8311N	Z217165K	MSD8311NI
10,3 x 31,5	N218190K	MSD10311	P219226K	MSD10311	R219757K	MSD10311N	V222957K	MSD10311NI
10,3 x 38	S201289K	MSD10381	Z211024K	MSD10381	R211546K	MSD10381N	A213095K	MSD10381NI

Packaging: 12 pieces

For further information on our residential fuse lines, consult our complete technical catalog The Advisor on CD-ROM or on our Web site at

<http://www.ferrazshawmut.com/fr/products/index.htm>

under the heading Special Purpose fuses

> European fuses

> residential fuses