



Gears & Fuse Gears

IEC General Purpose Fuses Ferrule Fuses ST22



ST 22

For Ferrule-type Fuses Ø 22

- IN ACCORDANCE WITH IEC 947-3 AND EN 60947-3
OPERATION CLASS: AC20B
IMPULSE WITHSTAND VOLTAGE: 6 AND 8 kV (1.2/50 µs wave)
- WITH PRE-ISOLATING AND BLOWN-FUSE INDICATING MICROSWITCHES
- COMPLETE PROTECTION AGAINST TOUCHING OF LIVE PARTS
- PROTECTION DEGREE: IP 2X
- HIGH-PERFORMANCE ST RANGE COMPLIANT WITH THE NEW EUROPEAN VOLTAGE RATINGS (IEC 33) U_N 480-690 V AC/DC I_N UP TO 125 A

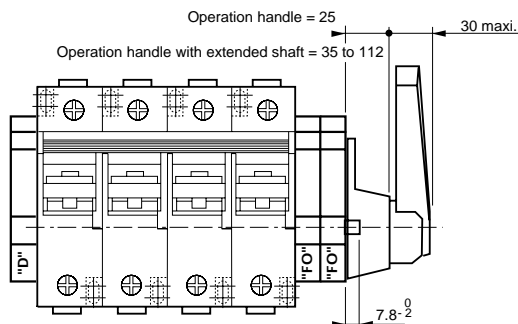
Main Characteristics

Size	AC Insulation voltage rating U_i (V) AC/DC	Impulse withstand voltage $U_{imp}(kV)$ (1)	Current rating I_N (A)	Fuse current rating I_N (A)	Maximum fuse operating current (A)						Recommended copper wire gauge (mm ²)	Fire and fumes class NF F 16 -102
					gG	aM	gR/UR		gRC	gL		
							URD/URC	URGB/URGA				
ST 22	690 (CEI) 700 (US)	8	125	25	25	25	25	25	25	25	4	I3-F1
				32	32	32	29	29	29	32	6	
				40	40	40	35	35	35	40	10	
				50	50	50	40	40	40	50	10	
				63	63	63	52	51	52	63	16	
				80	80	80	65	64	65	75	16	
				100	100	100	76	74	76	85	25	
				125	110	125	85				25	
135			87					35				

All terminals silver-plated copper

(1) Between close phases and phase and mass, between phases and microswitch as per IEC 947-1

Mounting with a padlocking right side-handle for ST 22

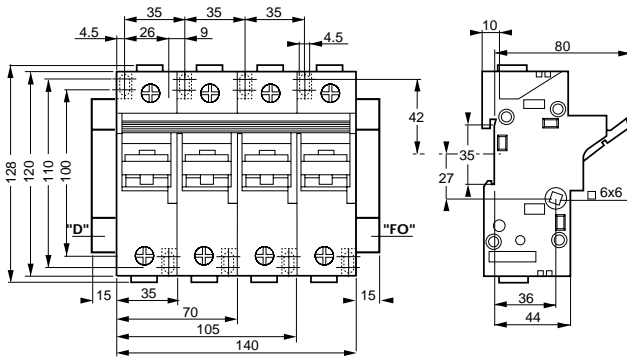


Designation (equipment + handle)	Ref. Number	Qty. of «FO»	Qty. of «D»	Cat. Number
ST22 IIIN FOFOD+CDELAT.D.	M 209633	2	1	
ST22 IIIN FOFO+CDELAT.D.	N 209634	2	0	
ST22 IIIN FOD+CDELAT.D.	P 209635	1	1	
ST22 IIIN FO+CDELAT.D.	Q 209636	1	0	
ST22 III FOFOD+CDELAT.D.	S 209638	2	1	
ST22 III FOFO+CDELAT.D.	R 209637	2	0	
ST22 III FOD+CDELAT.D.	T 209639	1	1	
ST22 III FO+CDELAT.D.	V 209640	1	0	



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ST 22 (for 22x58 fuses)



Unmovable screw clamp-type connections for wires:

- one conductor, multistrand or rigid wire: 35 mm²
- two conductors, multistrand wire: 16 mm²
- two conductors, rigid wire : 25 mm²

Minimal section: 2.5 mm²

With tightening torque: 2.8 to 3.5 Nm

Mounting:

- simple snap-mounting on standard symmetrical DIN-rail
- direct on board: two M4 screws with tightening torque 1 to 1.2 Nm

Poles	Symbol	Indication ⁽¹⁾	Predisconnection ⁽²⁾	Cat. Num	Ref. Num	Approvals	Weight (g)	Pck
1			•	ST221	F220368		235	12&3
				• ST221FO	M220397		260	1
				• ST221D	N220398		285	1
				• • ST221FOD	P220399		310	1
1+N			•	ST221N	D220389		485	6&1
				• ST221NFO	E220620		510	1
				• ST221ND	D220619		535	1
N			•	• • ST221NFOD	D220573		560	1
				ST22N	E220367		250	12&3
2			•	ST222	B220387		470	6&1
				• ST222FO	R220401		495	1
				• ST222D	S220402		520	1
3			•	• • ST222FOD	T220403		545	1
				ST223	C220388		705	4&1
				• ST223FO	W220405		730	1
				• ST223D	X220406		755	1
3+N			•	• • ST223FOD	Y220407		780	1
				ST223N	E220390		955	3&1
				• ST223NFO	A220409		980	1
				• ST223ND	B220410		1005	1
4			•	• • ST223NFOD	C220411		1030	1
				ST224D	H205926		1030	1

⁽¹⁾ Reversing switch-style blown-fuse indication contacts (D model)

⁽²⁾ Reversing switch-style preisolating contacts (FO model) enabling control of protection device and opening of off load disconnecter.

Preisolating "FO" and blown fuse indication "D" switch characteristics

AC insulation voltage rating (***)	FO or D type	Voltage/current for certain operating	Current rating	Current	Interrupting rating						AC voltage withstand test (*)	Impulse voltage Uimp1.2/50 μs (**)	Switching				
					Non-inductive current			Inductive circuit : L/R = 25ms					1 st FO	2 nd FO	D		
					30V	110V	250V	30V	110V	250V							
690 V	«FO»	20 V/50 mA	10 A	50/60 Hz	10 A	10 A	7 A	10 A	8 A	6 A	7.5 kV	8 kV	ST22				
690 V	«D»	10 V/10 mA	10 A	DC	5 A	0.5 A		1.6 A	0.3 A		7.5 kV	8 kV	open disconnecter Connecting with 6.3 clips				

* Between power circuit and microswitch terminals according to IEC 60 and 694 and NFC 64010 (50/60 Hz 1 mn dry air).

** Between power circuit and microswitch terminals Uimp: impulse voltage according to IEC 947-1.

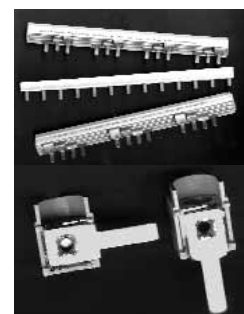
*** Between power circuit and microswitch terminals

Mounting adapter

Blue colored AF adapter (Ref. Number Q 098500) available for mounting on standard asymmetrical DIN-rail (EN 50035) and usable for all models.

Supply wiring bars and terminals

Description	Catalog Number	References	Maximum acceptable RMS current (A)	Pckg
Wiring bar for 6x2 poles Size 22	CMS22BB2F6	C210314	150	5
Wiring bar for 12x1 pole Size 22	CMS22BB1F12	B210313	90	5
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





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ST22 with ring pug connection

Poles	FO	D	Right Handle	Designation	Reference Number	Catalog Number
1	/	/	No	ST 22 Plage Type B	B228828	ST22RING
	/	1	No	ST 22 D Plage Type B	C229910	ST22DRING
2	/	/	No	ST 22 II Plage Type B	K210873	ST222RING
	2	1	No	ST 22 II FOFOD Plage Type B	L210874	ST222FOFODRING
	2	1	Yes	ST22 II FOFOD Cde Lat. D Plage Type B	M210875	ST222LHFOFODRIN
3	/	/	No	ST22 III Plage Type B	N210876	ST223RING
	2	1	No	ST22 III FOFOD Plage Type B	P210877	ST223FOFODRING
	2	1	Yes	ST22 III FOFOD Cde Lat. D Plage Type B	Q210878	ST223LHFOFODRIN
4	2	1	Yes	ST 22 IV FOFOD Cde Lat. D Plage Type B"	M227711	ST224LHFOFODRIN

