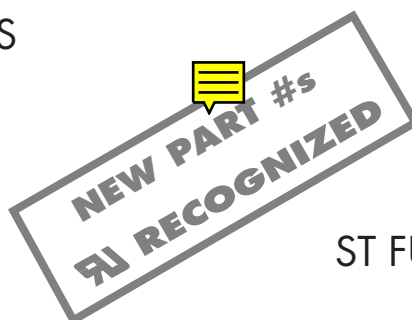


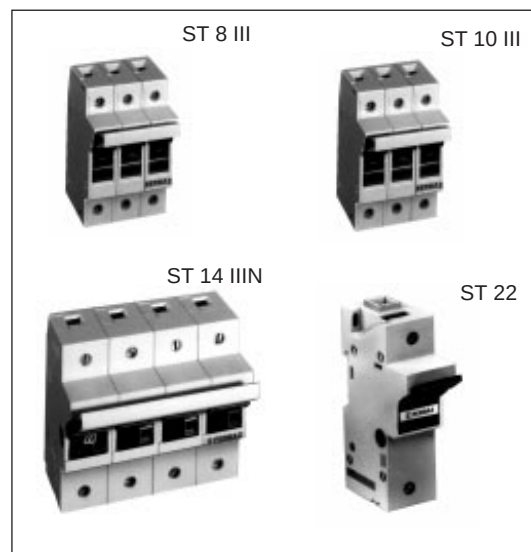


LOW VOLTAGE FUSES



ST FUSE - DISCONNECTORS FOR FERRULE STYLE FUSES SIZES: 8 - 10 - 14 - 22

- IN ACCORDANCE WITH
IEC 947-3 AND NF EN 60947-3
OPERATION CLASS : AC20B CLASS
IMPULSE WITHSTAND VOLTAGE:
6 AND 8 kV (1.2/50 μ s wave)
- WITH PREISOLATING AND BLOWN FUSE
INDICATING MICROSWITCHES
- COMPLETE PROTECTION AGAINST LIVE PARTS
TOUCHING
PROTECTION RATING : IP 2X
- HIGHLY EFFICIENT ST RANGE COMPLIANT WITH
THE NEW EUROPEAN VOLTAGE RATINGS (IEC 33)
 U_N 480-690 V AC and DC I_N UP TO 125 A



MAIN CHARACTERISTICS

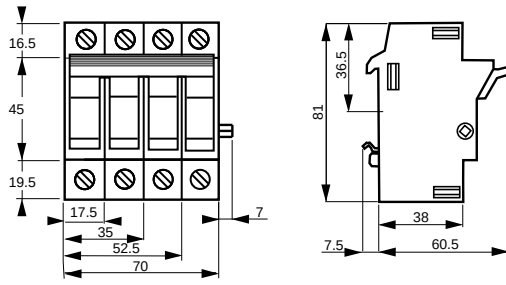
Size	AC Insulation voltage rating U_i (V) AC and DC	Impulse withstand voltage U_{imp} (kV)(1)	Current rating I_N (A)	Fuse current rating I_N (A)	Maximum fuse operating current (A)						Advised copper wire size (mm ²)	Fire and fumes class NF F 16-102
					gG	aM	gR/UR			gL		
ST 8	480	6	20	10 16 20	10 16 20	10					1.5 2.0 2.5	I3-F3
ST 10	690 (CEI) 700 (US)	6	32	25 30 32	25 30	25			gRB 27		4 4 6	
ST 14	690 (CEI) 700 (US)	8	50	16	16	16	URD/URC	URGB/URGA	gRC	16	2.5	I3-F2
				20	20	20	16	16	16	20	2.5	
				25	25	25	18	18	18	25	2.5	
				32	32	32	20	20	20	29	4	
				40	40	40	25	25	25	35	6	
				50	40	50	30	30	30	40	10	
				63			37	38	37	40	10	
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 are in silver-plated copper

(1) Between close phases and phase and mass, between phases and microswitch

REFERENCES

ST 8 (for 8x32 fuses)



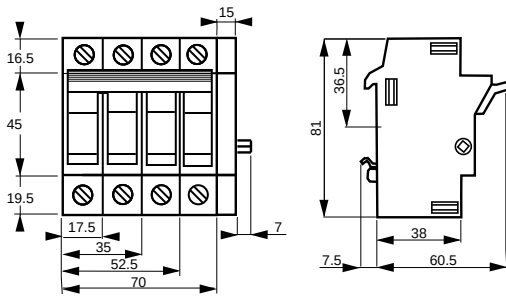
Unmovable screw clamp type connections for wires:
 One conductor, multistrand or rigid wire : 10 mm²
 Two conductors, : multistrand or rigid wire : 6 mm²
 Minimal section : 1.5 mm²
 With tightening torque : 1 to 1.2 Nm

Mounting:

- simply snap mounting on normalized symmetrical DIN-rail
- direct on board with a M4 screw with tightening torque : 1 to 1.2 Nm

Poles	Symbol	Indication	Predisconnection	Code	Part #	Approvals	Weight (g)	Packaging
1		Not available	↑	ST8	F 081218		75	12
1+N				ST8 IN	Z 081235		155	6
N				ST810 N	H 081220		80	12
2				ST8 II	A 081236		150	6
3				ST8 III	B 081237		225	4
3+N				ST8 III N	C 081238		305	3

ST 10 (for 10x38 fuses)



Unmovable screw clamp type connections for wires:
 One conductor, multistrand or rigid wire : 10 mm²
 Two conductors, : multistrand or rigid wire : 6 mm²
 Minimal section : 1.5 mm²
 With tightening torque : 1 to 1.2 Nm

Mounting:

- simply snap mounting on normalized symmetrical DIN-rail
- direct on board with a M4 screw with tightening torque : 1 to 1.2 Nm

Poles	Symbol	Indication	(2) Predisconnection	Code	Part #	Approvals	Weight (g)	Packaging
1		Not available	↑	ST10	G 081219		75	12
				ST10 FO	S 081252	pending	100	1
1+N				ST10 IN	D 081239		155	6
N				ST810 N	H 081220		80	12
2				ST10 II	E 081240		150	6
				ST10 II FO	W 081255	pending	175	1
3				ST10 III	F 081241		225	4
				ST10 III FO	Z 081258	pending	250	1
3+N				ST10 III N	G 081242		330	3
				ST10 III NFO	C 081261	pending	355	1

(2) Reversing switch style preisolating contacts (FO model) enabling to control a protection device and to uncouple the off load disconnecter. Contacts features see page 4.

Labeling example



ST22

F220368
 690V 125A
 AC 20A 48.62Hz
 CEI 947.3 Ulmp8kV
 NF EN 60947.3
 gG 100A 9.5W

Mounting:

- simply snap mounting on normalized symmetrical DIN-rail
- direct on board with a M4 screw with tightening torque : 1 to 1.2 Nm

Technical drawing of the 400V 3P+N+PE circuit breaker, showing front and side views with dimensions.

Front View Dimensions:

- Overall width: 140
- Overall height: 128
- Top terminal spacing: 35, 35, 35
- Terminal width: 4.5
- Terminal spacing: 26, 9
- Internal height: 110, 100
- Bottom terminal spacing: 35, 70
- Bottom terminal width: 105
- Mounting flange width: 15

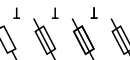
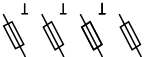
Side View Dimensions:

- Top flange width: 10
- Top flange height: 80
- Internal height: 35, 27
- Bottom flange width: 36, 44
- Mounting hole: 6x6

Mounting:

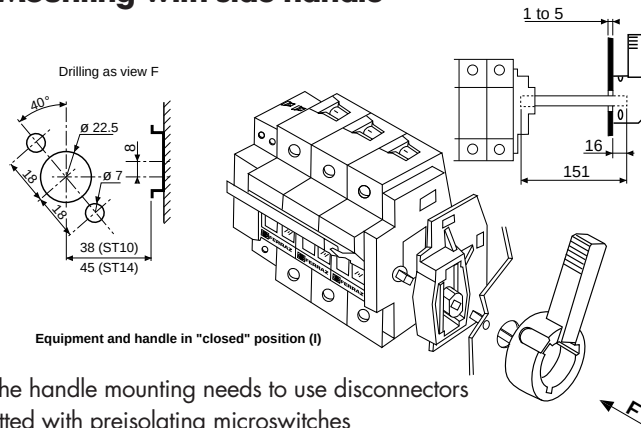
- simply snap mounting on normalized symmetrical DIN-rail
- direct on board with two M4 screws with tightening torque : 1 to 1.2 Nm

Poles	Symbol	(1) Indication	(2) Predisconnection	Code	Part #	Approvals	Weight (g)	Packaging
1			●	ST14	J 081221		140	12
				ST14 FO	G 081265		165	1
		●		ST14 D	R 081067		190	1
		●	●	ST14 FOD	B 081398		215	1
1+N				ST14 IN	H 081243		290	6
		●		ST14 IND	Y 220131		340	1
		●	●	ST14 INFOD	F 221357		365	1
N				ST14 N	L 081223		150	12
2				ST14 II	J 081244		280	6
			●	ST14 II FO	K 081268		305	1
		●		ST14 II D	T 081069		330	1
		●	●	ST14 II FOD	E 081401		355	1
3				ST14 III	K 081245		420	4
			●	ST14 III FO	N 081271		445	1
		●		ST14 III D	V 081070		470	1
		●	●	ST14 III FOD	J 081428		495	1
3+N				ST14 III N	L 081246		570	3
			●	ST14 III NFO	X 081394		595	1
		●		ST14 III ND	W 081071		620	1
		●	●	ST14 III NFOD	P 081548		645	1
4		●	●	ST14 IV FOD	P 205081		645	1

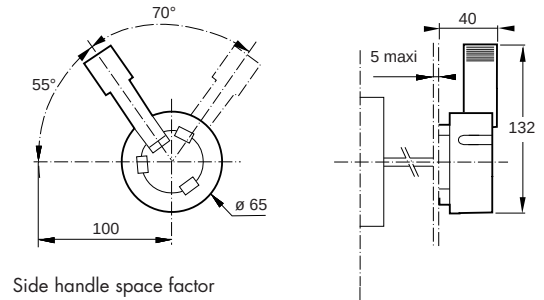
Poles	Symbol	(1) Indication	(2) Predisconnection	Code	Part #	Approvals	Weight (g)	Packaging
1				ST22	F 220368		235	12
				ST22 FO	M 220397		260	1
				ST22 D	N 220398		285	1
				ST22 FOD	P 220399		310	1
1+N				ST22 IN	D 220389		485	6
				ST22 INFO	E 220620		510	1
				ST22 IND	D 220619		535	1
				ST22 INFOD	D 220573		560	1
N				ST22 N	E 220367		250	12
2				ST22 II	B 220387		470	6
				ST22 II FO	R 220401		495	1
				ST22 II D	S 220402		520	1
				ST22 II FOD	T 220403		545	1
3				ST22 III	C 220388		705	4
				ST22 III FO	W 220405		730	1
				ST22 III D	X 220406		755	1
				ST22 III FOD	Y 220407		780	1
3+N				ST22 III N	E 220390		955	3
				ST22 III NFO	A 220409		980	1
				ST22 III ND	B 220410		1005	1
				ST22 III NFOD	C 220411		1030	1
4				ST22 IV D	H 205926		1030	1

(1) Reversing switch style blown fuse indication contacts (D model)
(2) Reversing switch style preisolating contacts (FO model) enabling to control a protection device and to uncouple the off load disconnector.
Contacts features see page 4.

Mounting with side handle

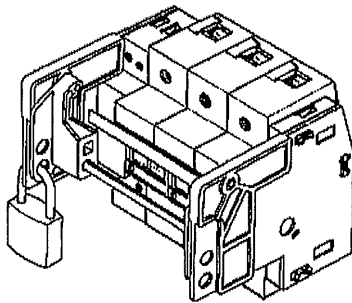


Actually not available in 22x58



The handle mounting needs to use disconnectors fitted with preisolating microswitches

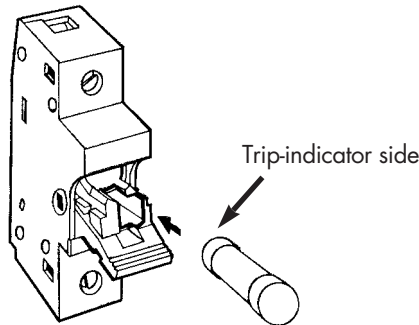
Padlocking device for ST 10 et ST 14



Qty. of poles	Code	Part #
1	ST CAD 01	H 098493
2	ST CAD 02	J 098494
3	ST CAD 03	K 098495
3+N	ST CAD 04	F 098491

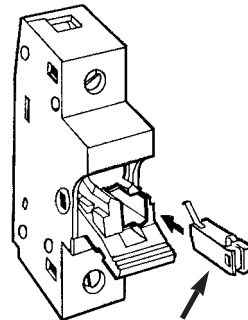
Actually not available in 22x58

Mounting with a trip-indicator fuse



Beware of not mounting 10x38 fuses with trip indicator in the ST 10 fuse-disconnector (the fuse is not normalized)

Mounting with indicating light



STV 400 item. Part # : W 081232 for ST 8 - 10 - 14
Operating voltage : from 115 to 400V

Mounting cannot be made on disconnectors fitted with microswitches

Preisolating «FO» and blown fuse indication «D» switches characteristics

AC insulation voltage rating (***)	Voltage/current for certain operating	Current rating	Interrupting rating							AC voltage withstand test (*)	Impulse voltage Uimp 1.2/50 μs (**)	FO		D	
			Current	Non-inductive current			Inductive circuit : L/R = 25ms					12	14	22	24
				30V	110V	250V	30V	110V	250V						
1000 V	20 V/100 mA	10 A	50/60 Hz	10 A	10 A	7 A	10 A	8 A	6 A	11 kV	12 kV				
1500 V	10 V/10 mA	10 A	DC	5 A	0.5 A		1.6 A	0.3 A		11 kV	12 kV				

* 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 adaptor

AF adaptor blue colored (part # L 096173) available for mounting on normalized asymmetrical DIN-rail (EN 50035)

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