

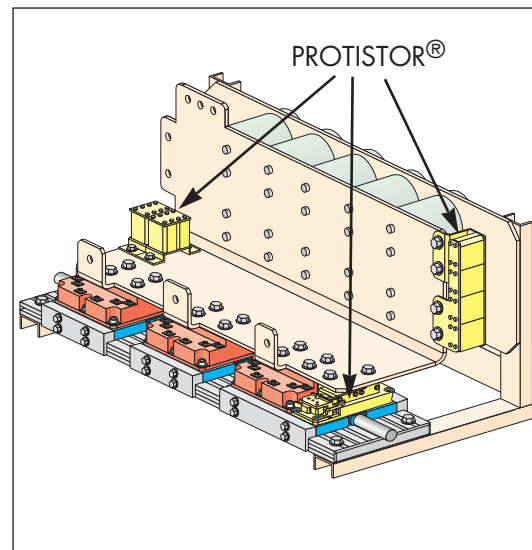


PROTISTOR® FUSES

Fuses
for
the next millennium!

PROTISTOR® FUSES FOR THE PROTECTION OF IGBTs

- FUSES TO PROTECT IGBTs' CASES
TO ISOLATE FAULTY COMPONENTS
TO ACHIEVE INTERNAL PROTECTION
- MANY CONNECTING STYLE TECHNOLOGIES
- ADAPTATION TO BUSBARS AND CONVERTERS
- LOCAL TRIP-INDICATOR AND REMOTE INDICATION IN OPTION
(BLOWN FUSE REMOTE INDICATION IS ACHIEVED BY AN
INSULATED MICROSWITCH)
- ELECTRICAL CHARACTERISTICS ACCORDING TO NTSC120
(T 500060 PUBLICATION) FOR THE OSCILLATORY FAULT CIRCUITS



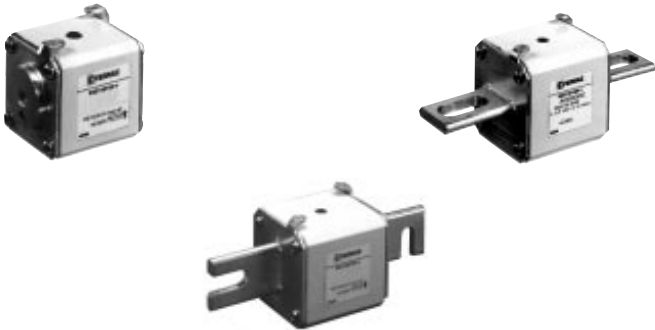
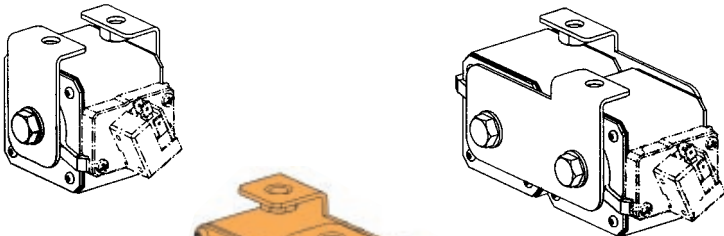
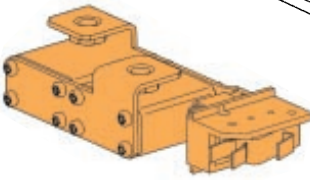
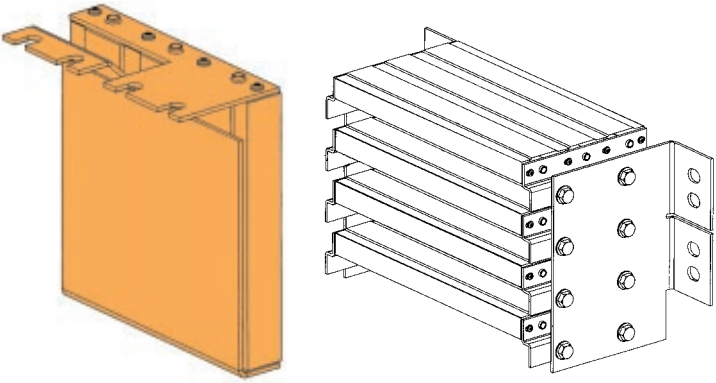
Checking of
oscillations of fault
circuit R - L - C

Requirement of the
PROTISTOR® fuse
technology

FERRAZ
Provider of a
complete
solution

Selection of the fuse
voltage rating according
to the capacitor voltage
and of the fuse current rating
according to the RMS current
taking into account harmonics,
fluctuating currents, frequency,
proximity effect

Customization of the
fuse to the busbar to be
protected via a
partnership with Ferraz

Maximum capacitor DC voltage	Current rating	Fuses technology	Fuses size	Fuses
700 V 900 V 1200 V	1 to 30 A 1 to 50 A 25 to 100 A 32 to 170 A	Ferrules	10 x 38 14 x 51 22 x 58 27 x 60	
900 V	12 to 100 A	Ferrules with brackets	17 x 49 BS 88/P D 08/V	
600 V 650 V 750 V	250 - 315 A 200 A 16 to 160A	Square body with brackets	000/LVP D08 BS 88-BS 88Z	
600 V 650 V 750 V	450 - 500 A 400 A 175 to 325 A		2.000/P BS 88Z	
900 V	63 to 1400 A 1250 - 1400 A	PSC Stud style, TTF, TTI, D08A - D11A, KI, LI, LII	30 to 33 73	
1000 V 1250 V 1500 V	350 to 1100 A 280 to 900 A 63 to 630 A		70 to 73	
1700 V 2000 V 2200 V 2500 V 3600 V 3900 V	100 to 500 A 250 to 500 A 315 to 450 A 100 to 350 A 150 to 900 A 80 to 250 A	CA, C6 Stud style Ttc D14A blades D17A blades D21A blades	91 to 93 121 to 123 121 to 123 121 to 123 171 to 174 171 to 173	
900 V	800 to 2000 A 1000 to 2800 A	PSC 2 - body	2.32 2.33	
900 V 1000 V 1250 V 1500 V	2500 to 2800 A 1400 to 2800 A 1100 - 1800 A 630 to 1250 A		2.72 & 2.73	
1700 V	500 to 1000 A	CA - C6	2.92 & 2.93	
2000 V	800 to 1000 A		2.122 & 2.123	
2200 V	630 to 900 A		2.122 & 2.123	
2500 V	400 to 700 A		2.122 & 2.123	
3600 V	500 to 700 A 1000 to 3000 A		2.172 & 2.173 2.174 & 4.174	
3900 V	400 - 500 A		2.172 & 2.173	
3000 V 3500 V 4000 V 4500 V 7200 V	Per one body 320 A 280 A 180 A 160 A 225 - 250 A	CV4	Paralleling assembly of several bodies	

All these values are in accordance with the use conditions in NT SC 120.

FERRAZ

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