

Rectangular Connectors MC Series

TECHNICAL DATA

Inserts:

Number of Contacts: 3 - 280 (+PE)

Rated Voltage:
VDE: 100-1000V
UL: 63-600V
CSA: 60-600V
SEV: 63-630V

Rated Current:
VDE: 5-50A
UL: 10-40A
CSA: 5-40A
SEV: 5-40A

Pollution Level: 3

Temperature Range: -40°C to 125°C

Termination Type:
Crimp termination: .06 - 10mm²,
AWG: 30 - 6 AWG
Cage Clamp: 0.5 - 2.5mm²,
AWG: 20 - 14

Contacts: Copper alloy, silver plated/ gold plated

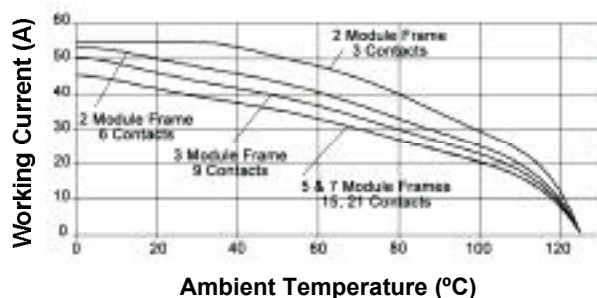
Contact Resistance: <1mOhm - <5MOhm

Dimension transient: 1.5 - 8kV, depending on module

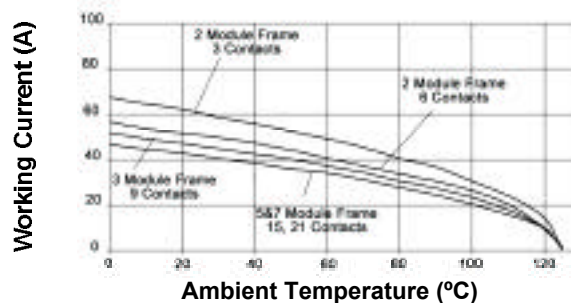
Mating Cycles: 100 (higher mating cycles depends on the application)

TECHNICAL DATA: DERATING CURVES

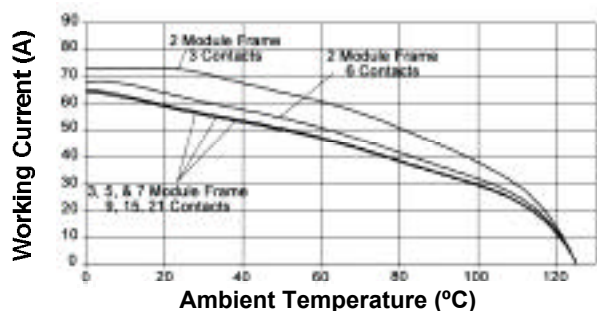
3 MODULE MACHINED CONTACTS: 6 mm² (10 AWG)



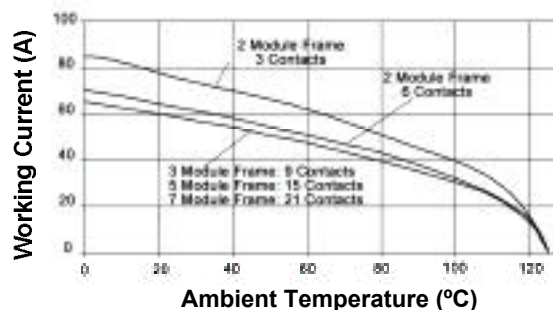
3 MODULE HIGH VOLTAGE MACHINED CONTACTS: 6 mm² (10 AWG)



3 MODULE MACHINED CONTACTS: 10 mm² (8 AWG)



3 MODULE HIGH VOLTAGE MACHINED CONTACTS: 10 mm² (8 AWG)



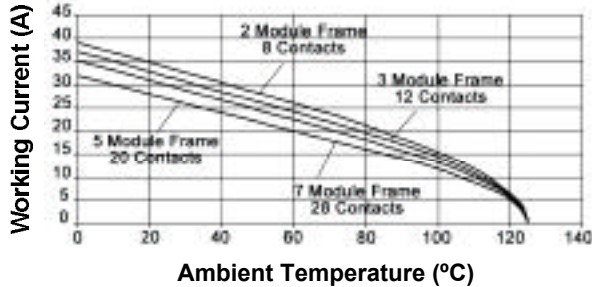
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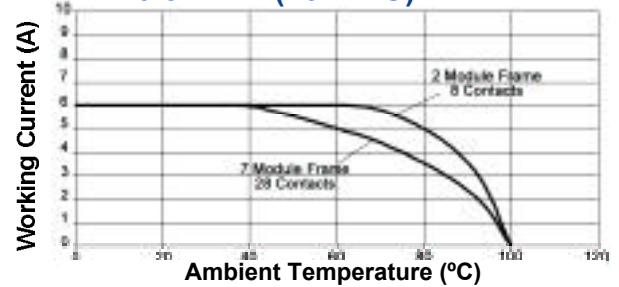
TECHNICAL DATA: DERATING CURVES

1

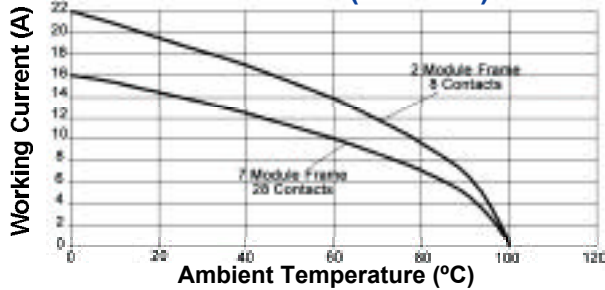
4 MODULE MACHINED CONTACTS: 4.0 mm² (12 AWG)



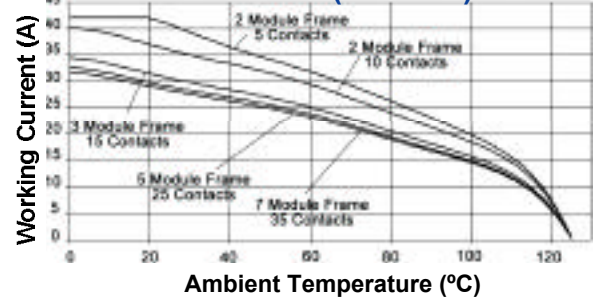
4 MODULE CAGE CLAMP: 0.5 mm² (20 AWG)



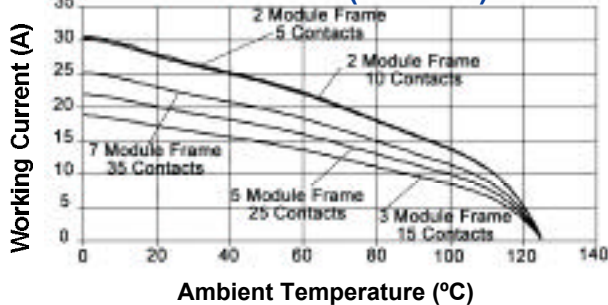
4 MODULE MACHINED CONTACTS: 2.5 mm² (14 AWG)



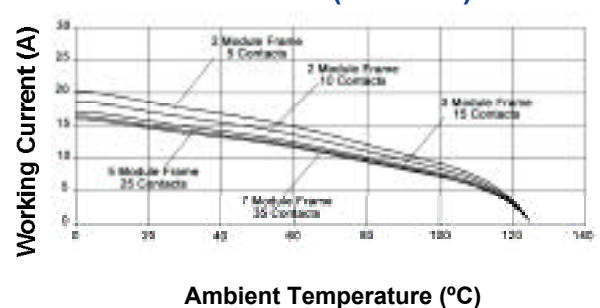
5 MODULE MACHINED CONTACTS: 4 mm² (12 AWG)



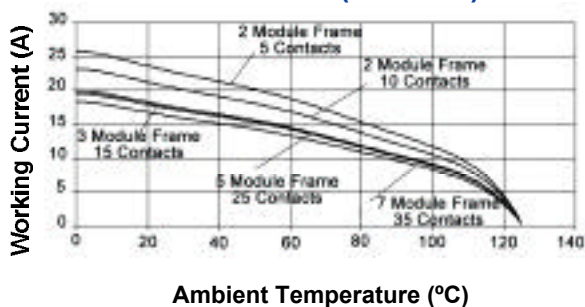
5 MODULE MACHINED CONTACTS: 2.5 mm² (14 AWG)



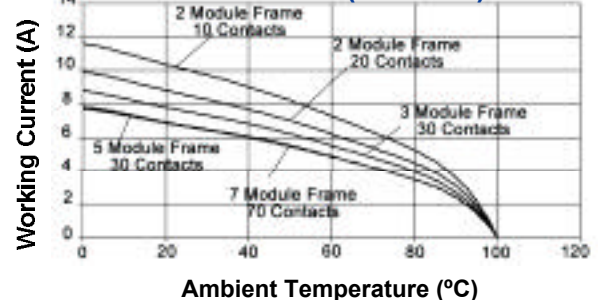
5 MODULE STAMPED CONTACTS: 1.5 mm² (16 AWG)



5 MODULE STAMPED CONTACTS: 2.5 mm² (14 AWG)



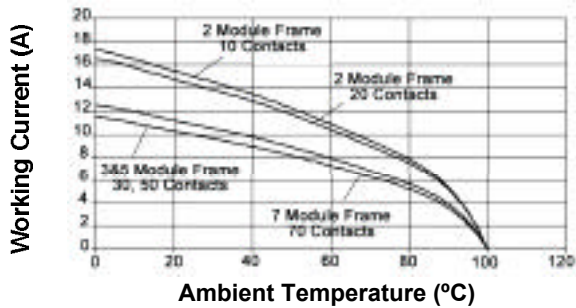
10 MODULE MACHINED CONTACTS: 0.5 mm² (20 AWG)



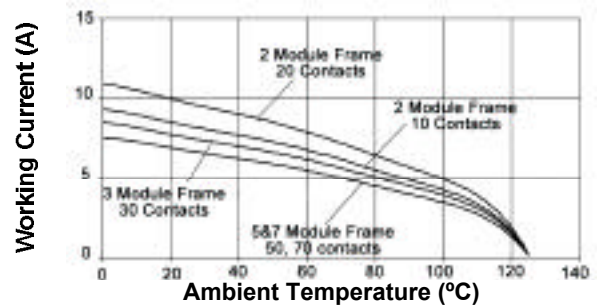
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TECHNICAL DATA: DERATING CURVES

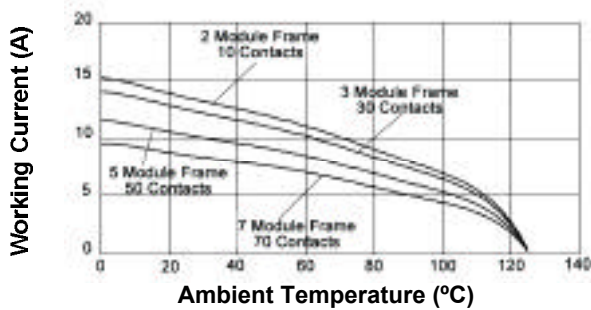
10 MODULE MACHINED CONTACTS: 1.5 mm² (16 AWG)



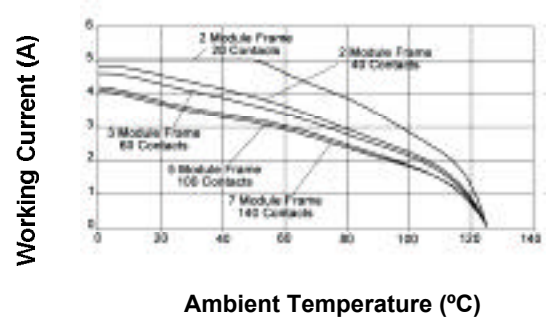
10 MODULE STAMPED CONTACTS: 0.5 mm² (20 AWG)



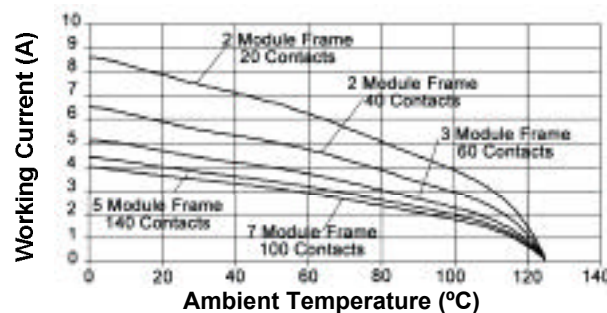
10 MODULE STAMPED CONTACTS: 1.5 mm² (16 AWG)



20 MODULE STAMPED CONTACTS : 0.25 mm² (24 AWG)



20 MODULE STAMPED CONTACTS: 0.5 mm² (20 AWG)



Rectangular Connectors MC Series

TECHNICAL DATA: HOUSINGS

Specifications: DIN 43652
Temperature Range: -40°C to +125°C
Protection class: IP65
Material: Aluminum alloy, powder coated

STANDARD GREY COATING (NEMA 4)

PG



NPT



METRIC



HBE 6- 48: aluminum alloy, powder coated (grey), locking levers and bolts made of zinc plated steel.

For industrial applications in demanding environments.

BLACK COATING (NEMA 4X)

PG



NPT



METRIC



HBE 6 - 48 EP: Environmentally Protected: aluminum alloy, powder coated (black), locking levers and bolts made of stainless steel.

For industrial applications in extremely demanding environments with aggressive atmospheres.

NEMA 4X

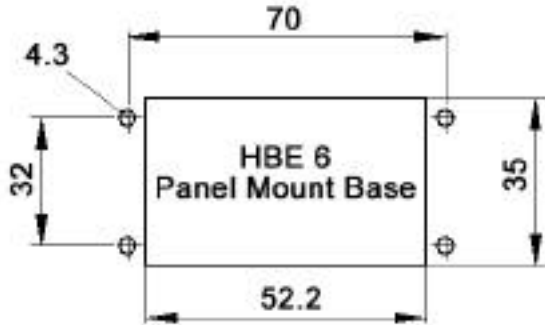
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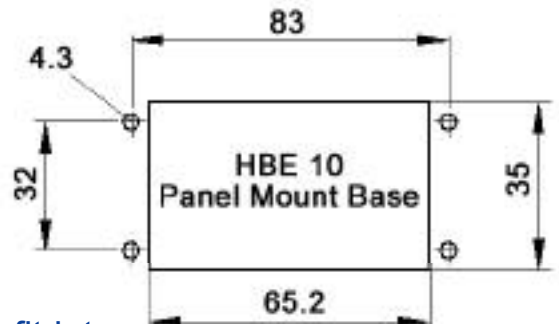
PANEL CUT-OUTS FOR PANEL MOUNT BASES

All dimensions are in mm.

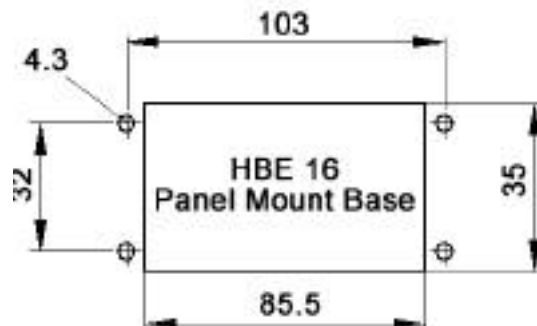
2 Module Frames fit into



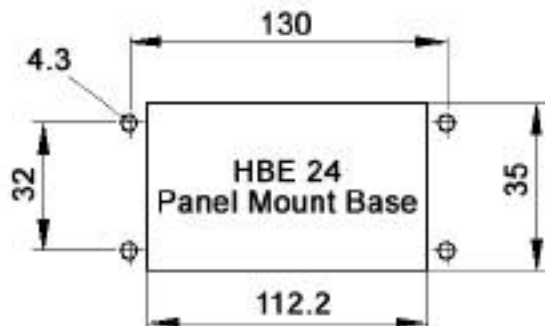
3 Module Frames fit into



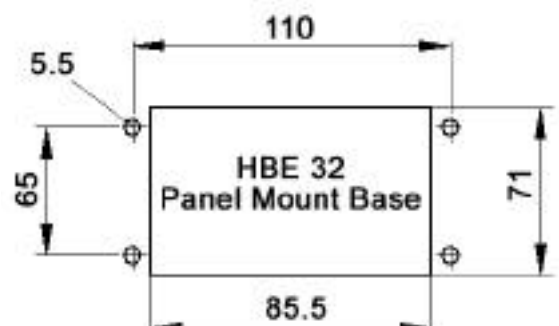
5 Module Frames fit into



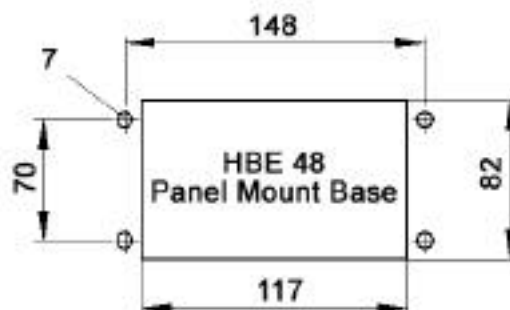
7 Module Frames fit into



10 Module Frames fit into



14 Module Frames fit into



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EPIC MODULAR SYSTEM

CHOOSE YOUR MODULES

Modules	Plug	Receptacle	Rated Voltage	Rated Current
3 Contact Coax Module	10.3992	10.3993	250V	100A
3 Contact Module	10.3820	10.3821	630V	40A
3 Contact High Voltage Module	10.3998	10.3999	1000V	50A
4 Contact Module	10.3990	10.3991	630V	25A
4+PE Contact High Voltage Module	10.3832	10.3833	1000V	16A
5 Contact Module	10.3822	10.3823	400V	20A
10 Contact Module: Stamped & Formed	10.3834	10.3835	250V	10A
10 Contact Module: Machine Crimp	10.3824	10.3825	250V	10A
20 Contact Module	10.3836	10.3837	100V	4A
Dummy Module	10.3994	10.3995	-	-
4 Contact Cage Clamp Module	10.3996	10.3997	400V	14A

CHOOSE YOUR FRAME BASED ON THE NUMBER OF MODULES

Frames	For Plugs	For Receptacles	Corresponding Housing
Frames for 2 modules	10.3810	10.3811	HBE 6 Series
Frames for 3 modules	10.3812	10.3813	HBE 10 Series
Frames for 5 modules	10.3814	10.3815	HBE 16 Series
Frames for 7 modules	10.3816	10.3817	HBE 24 Series
Frames for 10 modules	10.3814(2X)	10.3815(2X)	HBE 32 Series
Frames for 14 modules	10.3816(2X)	10.3817(2X)	HBE 48 Series

