

# Optima® Three-pole Overcurrent Protection Module

OPM-NG-



**Specifications**

**Description:**

OPM-NG-SC3: 3-pole Class CC fuse holder for use with Class CC fuses (Cooper Bussmann Types LP-CC, FNQ-R, KTK-R).

OPM-NG-SM3: 3-pole fuse holder for use with 1/2" x 1 1/2" and 10.3 x 38mm fuses (Cooper Bussmann Types: 1/2" x 1 1/2"; KTK, FNQ, KLM, 10 x 38mm; FWA, FWC, C10G\_ \_, C10M\_ \_).

**Ratings:**

- Volts: – OPM-NG-SC3: 600Vac (or less)
- OPM-NG-SM3: 600Vac (or less) UL and CSA 30A
- OPM-NG-SM3: 690Vac (or less) IEC 32A

Amps: – OPM-NG-SC3: 0-30A

– OPM-NG-SM3: 0-30A

SCCR: – OPM-NG-SC3: 200kA

– OPM-NG-SM3: Same as fuse IR, 200kA maximum

Agency Information: CE, UL; OPM-NG-SC3 UL Listed, UL 4248, File E14853, Guide IZLT. OPM-NG-SM3, UL Recognized, UL 4248, File E14853, Guide IZLT2. CSA Certified, C22.2 No. 4248, Class 6225-01, File 47235. IEC 60947-3 Utilization Category AC20B.

Handling & Storage Temperature: -10° to 65°C.

**Features/Benefits**

- 45mm width matches IEC starters
- 35mm DIN rail or panel mounting feature. Maximum screw size #8 (M4)
- Pressure plate terminations with dual-wire rated terminals (see Wire Table) and optional auxiliary contacts
- Integrated collapsible handle and fuse carrier cannot be removed from holder base
- Padlockable and IP20 finger-safe to IEC60529

**Typical Applications**

- Mass Produced Control Systems
- Process Control Systems
- Automated Warehouse Systems
- Individual Control Circuits

**Fuse Holder Wire Range:**

- 75°Cu Only
- #18-12 Single/Dual, torque 15lb-in
- #10-8 Single/Dual, torque 20lb-in
- Dual wire with same gauge and type

		75° Cu Only		C (N·m)/lb-in
		AWG	[mm <sup>2</sup> ]	
Solid		#18-8 x 1	1-6 x 1	18-12 Single/Dual 15lb-in (1.7 N·m)
		#18-8 x 2	1-6 x 2	
Stranded		#18-8 x 1	1-6 x 1	10-8 Single/Dual
		#18-8 x 2	1-6 x 2	
Ferrules			1-4 x 1	20lb-in (2.5 N·m)
			1-4 x 2	

**Input Power Terminal Wire Range:**

<b>Wiring</b>	Solid Conductor	(1) #14 to #2 (1.5 to 25mm <sup>2</sup> ) or conductor
	Stranded Conductor	(2) #14 to #6 (1.5 to 10mm <sup>2</sup> ) conductors
	Stranded Conductor	(1) #14 to #2 (1.5 to 25mm <sup>2</sup> ) conductor or (2) #12 to #6 (2.5 to 10mm <sup>2</sup> ) conductors
<b>Tightening Torque:</b>	Connector	20lb-in (2.2 N·m)
	Screw Clamp	15lb-in (1.7 N·m)

**Materials:**

- Housing: Thermoplastic - ULV2
- Clip: Tin-plated copper alloy
- Contact lubricant: Fluoroether grease
- Saddle screw: Plated steel
- DIN rail springs: Stainless steel

**Optional Accessories:**

**Comb Bar (Max current rating = 63A)**

OPMNGSA245	2 circuit, 45mm between same phases
OPMNGSA254	2 circuit, 54mm between same phases
OPMNGSA272	2 circuit, 72mm between same phases
OPMNGSA345	3 circuit, 45mm between same phases
OPMNGSA354	3 circuit, 54mm between same phases
OPMNGSA445	4 circuit, 45mm between same phases
OPMNGSA454	4 circuit, 54mm between same phases
OPMNGSA472	4 circuit, 72mm between same phases
OPMNGSA554	5 circuit, 54mm between same phases

**Input Terminal Block (Max current rating = 63A)**

OPMNGSA005	Input/Feed Through Power Terminal, Supports feed through to another system, DIN rail mount only
OPMNGSA009	Input Power Terminal

**Cover**

OPMNGSA010	Protective Cover for unused terminals on comb bar
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**Auxiliary Contacts**

OPMNGSAAUX11	NO/NC
OPMNGSAAUX20	NO/NO

**Marking Tabs**

OPMNGSA101	Marking Tab - Mounts to front of carrier, quantity 100
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