NEW

Neutral Current Sensor

UL Product Guide

Excellent Products
Exceptional Value

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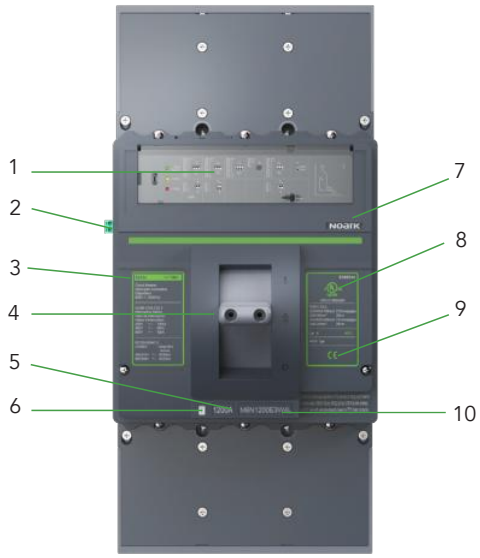
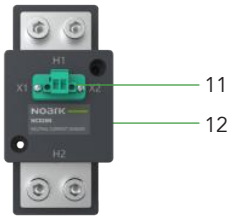
UL Neutral Current Sensor and M6 3P4W MCCB

Basic Information

Overview



1. Trip Unit
2. Wiring Terminal
3. Product Series
4. Handle
5. Rated Current
6. Test Button



7. NOARK Brand
8. UL Listed Mark
9. CE Mark
10. SKU
11. Wiring Terminal
12. NCS Label

Product Selection Guide

NCS	2	6	N
Neutral Current Sensor	Compatible Product	Compatible Frame Size	Certification Type
	2: MCCB Products	6: M6	UL certified

M	6	N	1200	E	3	W4	L	F
NOARK Ex9 Series - M	Frame Size	InterruptingCapacity	Rated Current	Trip Unit	Pole	Speciality	Connection Options	Rate Code
	6：1200 A	S：42kA@480Vac 22kA@600Vac	800~1200 A	E: Electronic	3：3-Pole	for 3-phase 4-wire system	Blank: Busbar Connection	F: 100% Rated MCCB
		N：65kA@480Vac 42kA@600Vac					L: Lug Line/Load Side Connection	

NCS26N Product Parameters

Function	Vector information of neutral Sensing
Rated Operational Current	800-1200A
Induction Ratio (A-mV)	1000: 137.5
Operational Temperature	-40°C ~ +70°C
Wiring Range	14 AWG ~ 24 AWG
Standards	UL489, UL1998 (Software)
Weight	1.6kg

UL Neutral Current Sensor and M6 3P4W MCCB

Ordering Info

PN	SKU	Description
1103041	M6N1000E3W4L	1200A Frame Size MCCB, 1000A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103201	M6N1000E3W4LF	1200A Frame Size MCCB, 1000A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103035	M6N1000E3W4	1200A Frame Size MCCB, 1000A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103195	M6N1000E3W4F	1200A Frame Size MCCB, 1000A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103042	M6N1200E3W4L	1200A Frame Size MCCB, 1200A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103202	M6N1200E3W4LF	1200A Frame Size MCCB, 1200A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103036	M6N1200E3W4	1200A Frame Size MCCB, 1200A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103196	M6N1200E3W4F	1200A Frame Size MCCB, 1200A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103040	M6N800E3W4L	1200A Frame Size MCCB, 800A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103200	M6N800E3W4LF	1200A Frame Size MCCB, 800A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103034	M6N800E3W4	1200A Frame Size MCCB, 800A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103194	M6N800E3W4F	1200A Frame Size MCCB, 800A, 3P, 65kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103038	M6S1000E3W4L	1200A Frame Size MCCB, 1000A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103198	M6S1000E3W4LF	1200A Frame Size MCCB, 1000A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103032	M6S1000E3W4	1200A Frame Size MCCB, 1000A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103044	M6S1000E3W4F	1200A Frame Size MCCB, 1000A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103039	M6S1200E3W4L	1200A Frame Size MCCB, 1200A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103199	M6S1200E3W4LF	1200A Frame Size MCCB, 1200A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103033	M6S1200E3W4	1200A Frame Size MCCB, 1200A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103193	M6S1200E3W4F	1200A Frame Size MCCB, 1200A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103037	M6S800E3W4L	1200A Frame Size MCCB, 800A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 80% Rated
1103197	M6S800E3W4LF	1200A Frame Size MCCB, 800A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Lug Terminal, 100% Rated
1103031	M6S800E3W4	1200A Frame Size MCCB, 800A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 80% Rated
1103043	M6S800E3W4F	1200A Frame Size MCCB, 800A, 3P, 42kA@480Vac, Electronic Trip Unit 3P4W, Bus bar connection, 100% Rated
1103203	NCS26N	Neutral Current Sensor for 3P4W M6

UL Neutral Current Sensor and M6 3P4W MCCB

Product Application

Functions

These trip functions are available:
L=Long-time Delay: Long-time Delay Protection Current; Long-time Delay Protection Time
S=Short-time Delay: Short-time Delay Protection Current: Short-time Delay Protection Time
I=Instantaneous Trip
G=Ground Fault Protection Current: Short-time Delay Protection Time

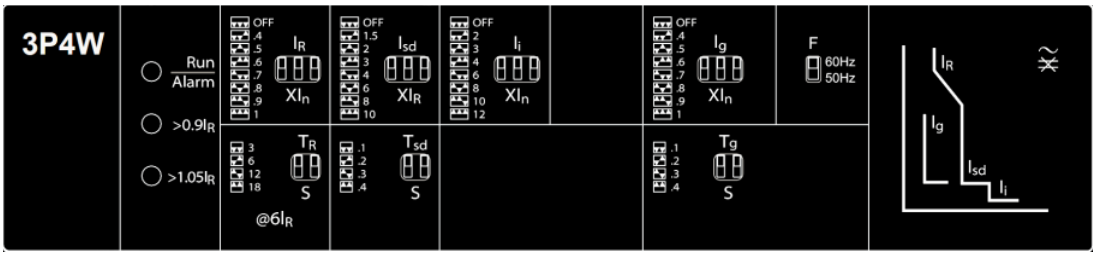
Frequency Selection available: 50 or 60 Hz

Long-time delay protection current (IR): 8 specific setting (IR): OFF, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1.0*In

Note:

Thermal memory function: protect load circuits against the affects of repeated overload conditions. When circuit breaker immediately closes after a long-time trip, and the continuous current exceeds the long-time setting value (Ir), thermal memory function will automatically reduce the trip time. Given repeated overload current, thermal memory function will make circuit breaker trip in gradually reduced time. When the load current resumes normally, thermal current function will start to reset. It will totally reset in about 1 hour. So next long-time trip time will correspond to the setting value. Thermal memory function will be cleared in OFF setting.

Long-time delay protection time (TR): 4 specific setting (TR) @6*IR: 3s, 6s, 12s, 18s



Short-time delay protection current (Isd): 8 specific setting (Isd): OFF, 1.5, 2, 3, 4, 6, 8, 10*IR

Short-time delay protection time (Tsd): 4 specific setting (Tsd): 0.1s, 0.2s, 0.3s, 0.4s

Instantaneous protection Current (Ii): 8 specific setting (Ii): OFF, 2, 3, 4, 6, 8, 10, 12*In

Ground Fault Protection Current Setting: 8 specific setting (Ig): OFF, 0.4, 0.5, 0.6, 0.7, 0.8, 0.9, 1*In

Ground Fault Protection Time Setting: 4 specific setting (Tg): 0.1s, 0.2s, 0.3s, 0.4s

Frequency Selection Setting: 2 specific setting: 50Hz, 60Hz

- NCS26N works with M6 3P4W version;
- NCS26N senses neutral current and transmits the data to 3P4W M6 trip unit;
- M6 3P4W protects circuit from ground fault, without cutting off the circuit due to faults on neutral - according to NEC Article 250.20(D): "In three-phase, four-wire power systems, the neutral point shall not be required to be connected to an overcurrent device, but measures shall be taken to ensure that the neutral point is connected to the grounding system in a manner that establishes reliable fault current path."

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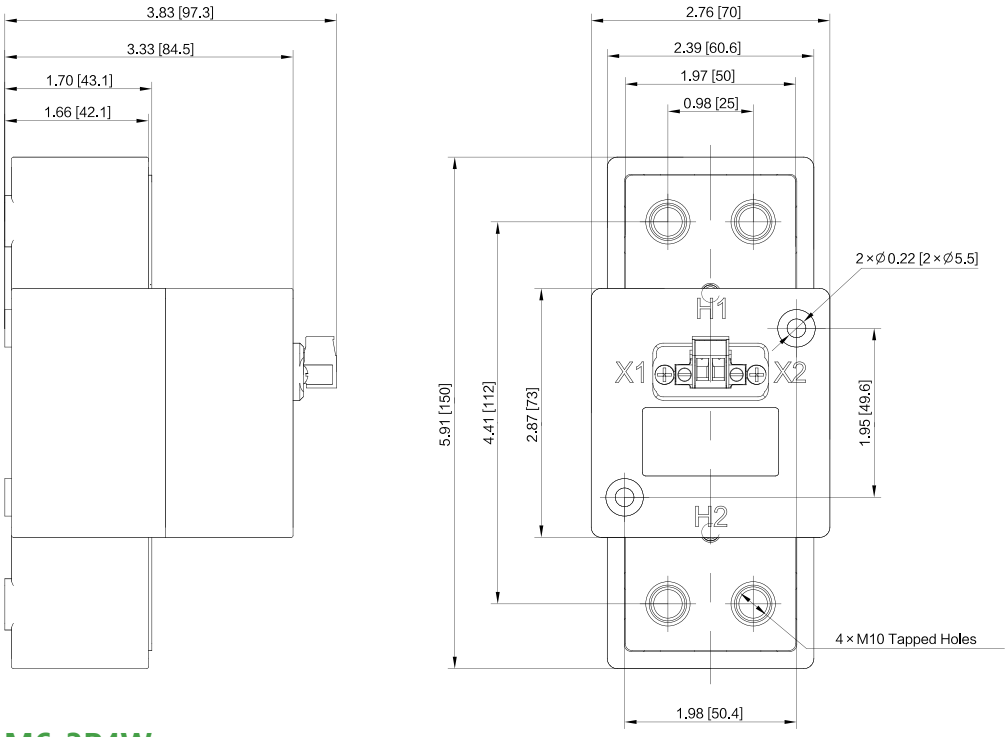
Installation Dimensions

NCS26N

Unit: in. [mm]



M6-3P4W

Unit: in. [mm]