

NOARK®

Catalog M2G Molded Case Circuit Breaker Catalog



Company Overview

About us

NOARK Electric is a global manufacturer of low-voltage electrical components for industrial applications. We specialize in motor controls and circuit protection for original equipment manufacturers. Our mission is to provide customers with the highest quality products at an exceptional value and back them with world-class service and support. Every NOARK product is tested and certified to the highest industry standards and covered by our exclusive five-year limited warranty.

Research and Development

The entire portfolio of high-quality NOARK products is designed for manufacturing and assembly (DFMA). Each component is developed in-house by our engineering team to meet the strictest standards and performance requirements. This dedication to excellence has led to the development of patented technology found in many of our products.

World-class Manufacturing

After being thoroughly tested, approved and certified – each NOARK product is sent into production at our state-of-the-art manufacturing facilities. This allows us to maintain strict quality control standards throughout the manufacturing process. In addition, NOARK Electric adheres to a policy of environmental protection and sustainability.

North American Distribution

NOARK's primary distribution center is located in Pomona, CA, with the aim of ensuring prompt and reliable deliveries of the entire product range to our customers all over North America. Our supply chain team works closely with our factories and logistics partners to ensure the availability of our products on the North American market and provide logistics services on the level which our customers expect.

NOARK Electric is a wholly subsidiary of the largest electrical manufacturing group in Asia with over 30 thousand employees and sales revenue of \$10 billion USD. We have corporate facilities in Los Angeles, Shanghai and Prague to service the requirements of individual markets and countries.

140+ Countries
300+ Overseas Distributors
20 Overseas Subsidiaries
22 Logistics Centers
3 R & D Centers
10,000,000+ Sq.Ft. Manufacturing Space
30,000+ Employees Worldwide



M2G Molded Case Circuit Breaker

Product Overview & Tripping Unit



Product Overview

M2G is a 3-pole molded case circuit breaker with equipment ground fault protection. It operates trip free and can be manually reset. When the breaker is tripped, the handle moves to the tripped position.

The breaker can be line and load reverse connected. It is intended to provide overcurrent, short circuit protection and ground fault protection where feed/branch circuit overcurrent protection is required. It can receive bus bars and/or cables.

Tripping Unit

The breaker is designed to be thermally fixed and be magnetically adjustable from 5 to 10 times the rated current for breakers rated 175 to 250A; and magnetically adjustable from 7 to 12 times for breakers rated 100 to 150 A.

The earth leakage module setting is intended for the protection of equipment

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M2G Molded Case Circuit Breaker

Product Selection & Ordering Instruction

Product Appearance



Product Selection

M2	G	s	250	T	3	L
Description	Protection Type	Interrupting Capacity	Rated Current	Tripping Unit	Number of Poles	Terminals
M2 Frame Molded Case Circuit Breaker 100-250A	G: Ground Fault Protection	S: 35kA N: 65kA H: 100kA	100: 100A 125: 125A 150: 150A 175: 175A 200: 200A 225: 225A 250: 250A	T: Thermal Magnetic	3: 3-Pole	Blank: Bus Bar Connection L: Lug Line/Load Side Connection

M2G Molded Case Circuit Breaker

Product Selection & Ordering Instruction

NO.	SKU	PART NUMBER	DESCRIPTION
1	M2GS100T3L	1102626	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, lug connection
2	M2GS125T3L	1102627	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, lug connection
3	M2GS150T3L	1102628	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, lug connection
4	M2GS175T3L	1102629	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, lug connection
5	M2GS200T3L	1102630	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, lug connection
6	M2GS225T3L	1102631	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, lug connection
7	M2GS250T3L	1102632	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, lug connection
8	M2GN100T3L	1102633	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, lug connection
9	M2GN125T3L	1102634	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, lug connection
10	M2GN150T3L	1102635	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, lug connection
11	M2GN175T3L	1102636	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, lug connection
12	M2GN200T3L	1102637	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, lug connection
13	M2GN225T3L	1102638	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, lug connection
14	M2GN250T3L	1102639	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, lug connection
15	M2GH100T3L	1102640	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, lug connection
16	M2GH125T3L	1102641	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, lug connection
17	M2GH150T3L	1102642	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, lug connection
18	M2GH175T3L	1102643	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, lug connection
19	M2GH200T3L	1102644	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, lug connection
20	M2GH225T3L	1102645	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, lug connection
21	M2GH250T3L	1102646	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, lug connection

M2G Molded Case Circuit Breaker

Product Selection & Ordering Instruction

22	M2GS100T3	1102647	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, bus bar connection
23	M2GS125T3	1102648	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, bus bar connection
24	M2GS150T3	1102649	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, bus bar connection
25	M2GS175T3	1102650	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, bus bar connection
26	M2GS200T3	1102651	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, bus bar connection
27	M2GS225T3	1102652	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, bus bar connection
28	M2GS250T3	1102653	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 35kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, bus bar connection
29	M2GN100T3	1102654	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, bus bar connection
30	M2GN125T3	1102655	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, bus bar connection
31	M2GN150T3	1102656	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, bus bar connection
32	M2GN175T3	1102657	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, bus bar connection
33	M2GN200T3	1102658	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, bus bar connection
34	M2GN225T3	1102659	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, bus bar connection
35	M2GN250T3	1102660	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 65kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, bus bar connection
36	M2GH100T3	1102661	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 100A, 3-pole thermal-magnetic tripping unit, bus bar connection
37	M2GH125T3	1102662	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 125A, 3-pole thermal-magnetic tripping unit, bus bar connection
38	M2GH150T3	1102663	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 150A, 3-pole thermal-magnetic tripping unit, bus bar connection
39	M2GH175T3	1102664	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 175A, 3-pole thermal-magnetic tripping unit, bus bar connection
40	M2GH200T3	1102665	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 200A, 3-pole thermal-magnetic tripping unit, bus bar connection
41	M2GH225T3	1102666	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 225A, 3-pole thermal-magnetic tripping unit, bus bar connection
42	M2GH250T3	1102667	MCCB with ground fault protection, M2 Frame, Interrupting Capacity 100kA, Rated Current 250A, 3-pole thermal-magnetic tripping unit, bus bar connection

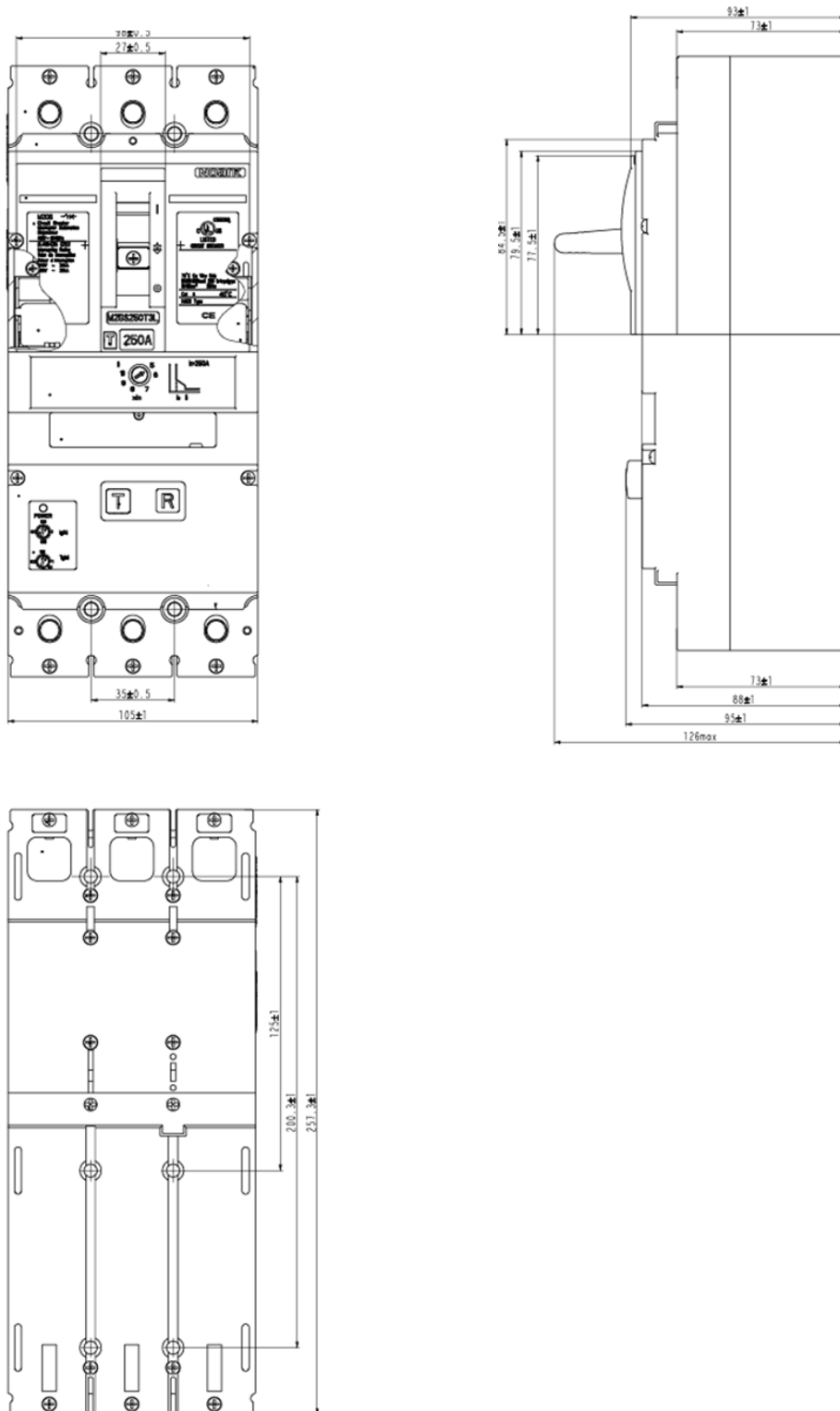
M2G Molded Case Circuit Breaker

Product Specifications

Specifications

DESCRIPTION	M2G Molded Case Circuit Breaker		
Frame Size (A)	250		
Rated Current (A)	100, 125, 150, 175, 200, 225, 250		
Number of Poles	3		
Interrupting Capacity (kA)	S	N	H
240 Vac	35	65	100
480Vac	35	65	100
Thermal Overload Trip	Fixed		
Magnetic Trip	Adjustable from 7 to 12 times for breakers for breakers rated 100A to 150A. adjustable from 5 to 10 times for breakers rated 175A to 250A.		
Ground Fault Pickup Setting (A)	0.03-0.1-0.3-1.0		
Ground fault delay setting(s)(Tg)	0.1-0.3-0.5-1		
Setting tolerance	+/- (15% or 40 ms, whichever bigger)		

M2G Molded Case Circuit Breaker Installation Dimensions



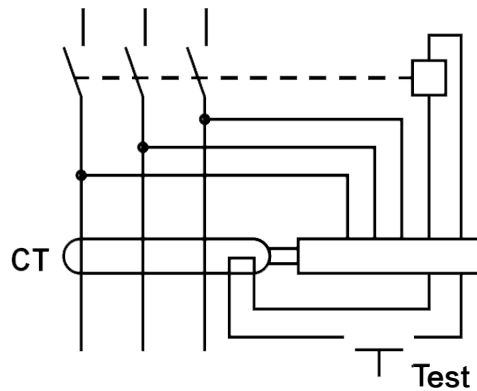
M2G Molded Case Circuit Breaker Wiring Diagram

 **WARNING**

Dielectric test between any two poles is prohibited for this breaker. The breaker terminals may be energized regardless of the breaker handle position when reverse feed is applied.

Ground Fault Protection for Equipment





M2G Wiring Diagram

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