

# M100 Electronic Motor Starter

## Features and benefits

- Point-on-Wave (POW) technology
- Direct-on-line (DOL), reversing and safety operations in the same form factor
- Zero-stacking with no derating up to 55 Celsius
- Wide amperage range
- Integrated electronic overload
- Built-in phase loss, imbalance and weld detection
- Removable terminal blocks (both screw and push-in types)
- Single or three-phase operation up to 480VAC
- Adherence to functional safety standards up to 61508 SIL 3 PL-e



The M100 combines the functions of a contactor and an overload relay into a singular, compact unit making it an ideal solution for maximizing panel space without sacrificing performance. Its easy integration into existing systems is facilitated by removable terminal blocks available in both screw and push-in styles, simplifying installation and reducing wiring complexity.

With additional features like Point-on-Wave technology and no derating up to 55 Celsius, the M100 enables you to enhance the longevity and reliability of your electrical devices, improve energy efficiency, and build safer systems without sacrificing valuable panel space.

## Take traditional motor control to the next level

The M100 Electronic Motor Starter fits into our Branch Motor Control & Protection portfolio, which also features our newly launched traditional motor control products including the 100-E Contactor, E100 Motor Overload Relay and 140MT Motor Protection Circuit Breaker. Together with the M100, these components create one of the most advanced motor control solutions on the market. For further insights, visit [rok.auto/branchmotor](http://rok.auto/branchmotor)



**Allen-Bradley**

by ROCKWELL AUTOMATION

M100 catalogs

9A M100

SCREW TERMINALS  
24VDC CONTROL

CATALOG	PN	DESCRIPTION	RANGE	OPERATION	REVERSING	TERMINAL TYPE
M109N-C09-S	PN-671675	Standard Non-Reversing Starter 0.75 to 9A, Screw Terminal	0.75 to 9A	Standard	Non-Reversing	Screw Terminal
M105N-C09-S	PN-671677	Standard Reversing Starter 0.75 to 9A Screw Terminal	0.75 to 9A	Standard	Reversing	Screw Terminal
M109S-C09-S	PN-671679	Safety Non-Reversing Starter 0.75 to 9A Screw Terminal	0.75 to 9A	Safety	Non-Reversing	Screw Terminal
M105S-C09-S	PN-671681	Safety Reversing Starter 0.75 to 9A Screw Terminal	0.75 to 9A	Safety	Reversing	Screw Terminal

23A M100

SCREW TERMINALS  
24VDC CONTROL

CATALOG	PN	DESCRIPTION	RANGE	OPERATION	REVERSING	TERMINAL TYPE
M109N-C23-S	PN-671676	Standard Non-Reversing Starter 4.6A to 23A Screw Terminal	4.6 to 23A	Standard	Non-Reversing	Screw Terminal
M105N-C23-S	PN-671678	Standard Reversing Starter 4.6A to 23A Screw Terminal	4.6 to 23A	Standard	Reversing	Screw Terminal
M109S-C23-S	PN-671680	Safety Non-Reversing Starter 4.6A to 23A Screw Terminal	4.6 to 23A	Safety	Non-Reversing	Screw Terminal
M105S-C23-S	PN-671682	Safety Reversing Starter 4.6A to 23A Screw Terminal	4.6 to 23A	Safety	Reversing	Screw Terminal

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PUSH-IN TERMINALS  
24VDC CONTROL

CATALOG	PN	DESCRIPTION	RANGE	OPERATION	REVERSING	TERMINAL TYPE
M109N-C09-P	PN-671683	Standard Non-Reversing Starter 0.75 to 9A, Push In Terminal	0.75 to 9A	Standard	Non-Reversing	Push-In Terminal
M105N-C09-P	PN-671685	Standard Reversing Starter 0.75 to 9A Push In Terminal	0.75 to 9A	Standard	Reversing	Push-In Terminal
M109S-C09-P	PN-671687	Safety Non-Reversing Starter 0.75 to 9A Push In Terminal	0.75 to 9A	Safety	Non-Reversing	Push-In Terminal
M105S-C09-P	PN-671689	Safety Reversing Starter 0.75 to 9A Push In Terminal	0.75 to 9A	Safety	Reversing	Push-In Terminal

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PUSH-IN TERMINALS  
24VDC CONTROL

CATALOG	PN	DESCRIPTION	RANGE	OPERATION	REVERSING	TERMINAL TYPE
M109N-C23-P	PN-671684	Standard Non-Reversing Starter 4.6A to 23APush In Terminal	4.6 to 23A	Standard	Non-Reversing	Push-In Terminal
M105N-C23-P	PN-671686	Standard Reversing Starter 4.6A to 23A Push In Terminal	4.6 to 23A	Standard	Reversing	Push-In Terminal
M109S-C23-P	PN-671688	Safety Non-Reversing Starter 4.6A to 23A Push In Terminal	4.6 to 23A	Safety	Non-Reversing	Push-In Terminal
M105S-C23-P	PN-671690	Safety Reversing Starter 4.6A to 23A Push In Terminal	4.6 to 23A	Safety	Reversing	Push-In Terminal

M100 terminal block kits

\*All M100 units include a terminal block kit. These SKUs are offered as replacements and are not required.

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SCREW TERMINALS

CATALOG	PN	DESCRIPTION	TERMINAL TYPE
M109N-C09-S-TB	PN-714972	Screw Terminal Block Kit for M100 (Included with M109N-C09-S)	Screw Terminal
M105N-C09-S-TB	PN-714974	Screw Terminal Block Kit for M100 (Included with M105N-C09-S)	Screw Terminal
M109S-C09-S-TB	PN-714976	Screw Terminal Block Kit for M100 (Included with M109S-C09-S)	Screw Terminal
M105S-C09-S-TB	PN-714978	Screw Terminal Block Kit for M100 (Included with M105S-C09-S)	Screw Terminal

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SCREW TERMINALS

CATALOG	PN	DESCRIPTION	TERMINAL TYPE
M109N-C23-S-TB	PN-714973	Screw Terminal Block Kit for M100 (Included with M109N-C23-S)	Screw Terminal
M105N-C23-S-TB	PN-714975	Screw Terminal Block Kit for M100 (Included with M105N-C23-S)	Screw Terminal
M109S-C23-S-TB	PN-714977	Screw Terminal Block Kit for M100 (Included with M109S-C23-S)	Screw Terminal
M105S-C23-S-TB	PN-714979	Screw Terminal Block Kit for M100 (Included with M105S-C23-S)	Screw Terminal

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PUSH-IN TERMINALS

CATALOG	PN	DESCRIPTION	TERMINAL TYPE
M109N-C09-P-TB	PN-714980	Push-In Terminal Block Kit for M100 (Included with M109N-C09-P)	Push-In Terminal
M105N-C09-P-TB	PN-714982	Push-In Terminal Block Kit for M100 (Included with M105N-C09-P)	Push-In Terminal
M109S-C09-P-TB	PN-714984	Push-In Terminal Block Kit for M100 (Included with M109S-C09-P)	Push-In Terminal
M105S-C09-P-TB	PN-714986	Push-In Terminal Block Kit for M100 (Included with M105S-C09-P)	Push-In Terminal

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PUSH-IN TERMINALS

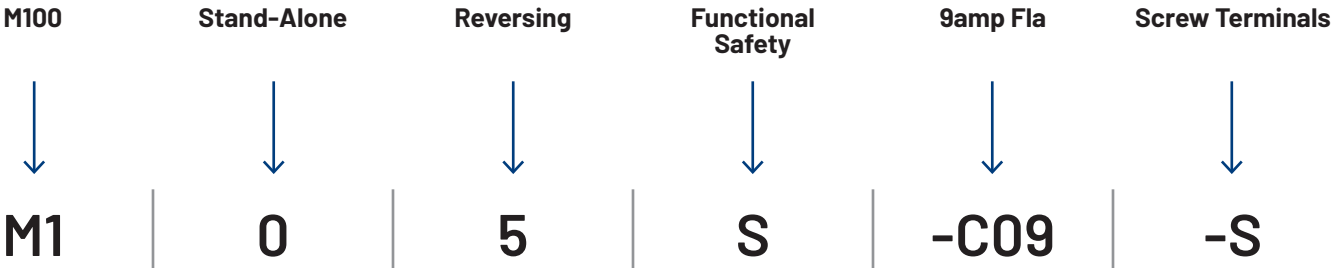
CATALOG	PN	DESCRIPTION	TERMINAL TYPE
M109N-C23-P-TB	PN-714981	Push-In Terminal Block Kit for M100 (Included with M109N-C23-P)	Push-In Terminal
M105N-C23-P-TB	PN-714983	Push-In Terminal Block Kit for M100 (Included with M105N-C23-P)	Push-In Terminal
M109S-C23-P-TB	PN-714985	Push-In Terminal Block Kit for M100 (Included with M109S-C23-P)	Push-In Terminal
M105S-C23-P-TB	PN-714987	Push-In Terminal Block Kit for M100 (Included with M105S-C23-P)	Push-In Terminal

Standard Kit    Kit Includes Safety Terminal

Catalog breakdown

M100	NETWORK	REVERSING	SAFETY	MAX FLA	TERMINAL TYPE
M1	0 Stand-Alone	5 Reversing	S Functional Safety	-C09 9 amp	-S Screw
		9 Non-Reversing	N Standard Non-Safety	-C23 23 amp	-P Push-in

Example: **M105S-C09-S**



To learn more, visit [rok.auto/m100-electronic-motor-starter](https://rok.auto/m100-electronic-motor-starter)



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