
NLRV7.E14841

Motor Controllers, Manual Certified for Canada

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See General Information for Motor Controllers, Manual Certified for Canada

**ROCKWELL AUTOMATION/
ALLEN-BRADLEY**
1201 S 2ND ST
MILWAUKEE, WI 53204 USA

E14841

Across-the-line starter, for use as disconnect switches in motor circuits, Type 194E followed by A or E, followed by -125, -160, -250 or -315.

Across the line starter, Cat. No. 194E followed by A16 or E16, followed by 1756.

Manual motor controllers, Cat No. 194E followed by A, C, D, F G, or K, followed by 16, 20, 32, 40, 63 or 80, or 00, may be followed by E, EX or X, may be followed by NP, P11, PD10, PE, PL11 or TN.

Cat. No. 194E followed by AB or EF, followed by P21, followed by 160 or 315.

Cat. Nos. 1494, followed by F, followed by -FN or -CN, followed by 30, 60, 100, 200 or 400.

Cat. No. 140M followed by C2E, C2N, C2T, D8E, D8N or D8T may be followed by A, B or C, may be followed by 10, 16, 20, 25, 40 or 63.

Type 1492-CB followed by 1, 2, 3 or 4, followed by suffix letters J, F, G, H, K, DF, DG, DH or SG, followed by numerals, may be followed by N, may be followed by additional suffixes.

Manual motor starter, Cat. No. 194E followed by A16 or E16, followed by 1753.

Accessories, Cat. No. 194E, followed by A16 or E16, followed by NP, PE, PD10, TN, C1 or C3.

Motor controller contact block, Cat. No. 800T or 800TC followed by XD, followed by 1M, 2M or 4M, Series A.

Open or closed across-the-line relays , Cat. Nos. 609 and 609T, followed by A, B or X followed by A, C, J, L, O and Q, followed by X or W, with or without suffix Nos. A4, B4, C4, D4, X6, 21 or 22, Series E, F, G, H, J or K.

Cat. Nos. 609U and 609TU, followed by A, B or X, followed by A, C, J, L, O or Q, followed by one or two suffix letters with or without suffix 4, Series E, F, G, H or J.

Cat. Nos. 609-ACWX2, 609-BCWX2, Series J or K.

Cat. Nos. 609-BAWX6, 609-BJWX6, Series G or H.

Cat. Nos. 609TU, -NX1, -NX2, -NX3, -NX4, -NX5, -NX6, or -NX7, Series H.

Cat. Nos. 609-U, -NX1, -NX2, -NX3, -NX4, -NX6 .

Manual motor controller , Cat. No. 194E-NX39.

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NLRV7.GuideInfo

Motor Controllers, Manual Certified for Canada

[Industrial Control Equipment Certified for Canada] (Motor Controllers Certified for Canada) Motor Controllers, Manual Certified for Canada

See General Information for Motor Controllers Certified for Canada

GENERAL

This category covers across-the-line starters, autotransformer starters, reactance type starters, resistance type starters, speed regulators and combined starters and speed regulators.

REQUIREMENTS

The basic standard used to investigate products in this category is CAN/CSA C22.2 No. 14-M91, "Industrial Control Equipment."

UL MARK

The Listing Mark of Underwriters Laboratories Inc. on the product is the only method provided by UL to identify products manufactured under its Listing and Follow-Up Service. The Listing Mark for these products includes the UL Mark for Canada symbol (as illustrated in the Introduction of this Directory) together with the word "LISTED," a control number, and the product name "Industrial Control Equipment" (or "Ind. Cont. Eq.").

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NJOT7.GuideInfo Motor Controllers Certified for Canada

[Industrial Control Equipment Certified for Canada] Motor Controllers Certified for Canada

See General Information for Industrial Control Equipment Certified for Canada

This listing covers the following devices rated 600 v or less, and those rated 701-1500 v:

Auxiliary Devices

Combination Motor Controllers.

Float- and Pressure-Operated Motor Controllers

Magnetic Motor Controllers

Manual Motor Controllers

Miscellaneous Motor Controllers

Power Conversion Equipment

Some Motor Controllers are open type (without enclosures). This means that such devices are for use as parts of Listed equipment where the acceptability of the combination has been determined by Underwriters Laboratories Inc. or where open type devices are acceptable.

This Listing also covers enclosures for housing open type devices. Such enclosures are marked to identify the open type devices which may be suitably installed therein.

Motor Controllers intended for across-the-line starting and for making and breaking the circuit when the motor is stalled are tested at rated voltage and at six times motor full load running current for a-c ratings and at ten times motor full load running current for d-c ratings.

Motor Controllers incorporating thermal cutouts, thermal overload relays or other devices for motor running overcurrent protection are considered to be suitably protected against overcurrent due to short circuits or grounds by motor branch circuit, short circuit and ground fault protective devices selected in accordance with the appropriate electrical code and any additional information marked on the product. Motor Controllers may specify that protection is to be provided by fuses or by an inverse time circuit breaker. If there is no marking on protective device type, controllers are considered suitably protected by either type of device. Motor Controllers may specify a maximum rating of protective device. If not marked with a rating, the controllers are considered suitably protected by a protective device of the maximum rating permitted by the appropriate Electrical Code.

Unless otherwise marked, motor controllers incorporating thermal cutouts or overload relays are considered suitable for use on circuits having available fault currents not greater than:

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Rating HP (600 V) Max)	Full Load Current Amps (701-1500v)	RMS Symmetrical Amps
1 or less	—	1,000
1-1/2 to 50	0-50	5,000
51 to 200	51-200	10,000
201 to 400	201-400	18,000
401 to 600	401-600	30,000
601 to 900	601-850	42,000
901 to 1600	851-1500	85,000
<p>Note: Motor Controllers which are marked "Suitable For Use On A Circuit Capable Of Delivering Not More Than _____ RMS Symmetrical Amps, _____ Volts Maximum" have been investigated for the additional rating indicated.</p>		
<p>Note: Motor Controllers for group installations are marked with a maximum rating of fuse which is considered to suitably protect the controller for the group installation. Such fuse ratings may be in excess of the values given above.</p>		
<p>Note: Controllers for Electric Motor Drive Fire Pumps are listed in the Fire Protection Equipment List under the Pump Controller section.</p>		

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NIMX7.GuideInfo

Industrial Control Equipment Certified for Canada

Industrial Control Equipment Certified for Canada

Guide Information for Electrical Equipment for Use in Ordinary Locations Certified for Canada

The listing covers the following products:

Industrial Control Panels

Motor Control Centers

Motor Controllers

Miscellaneous Apparatus

Programmable Controllers

Industrial Control Switches

Industrial control equipment identified with an enclosure type designation or as "Rain tight" or "Rainproof" is intended for use as indicated in (AALZ7).

Industrial Control Equipment, is for use with copper conductors unless marked to indicate which terminals are suitable for use with aluminum conductors. Such marking is independent of any marking on terminal connectors and is on a wiring diagram or other readily visible location.

Industrial Control Equipment, for which accessory kits are available for the field or distributor modification of the basic product or which may be assembled in many forms from separate components are marked to indicate the suitable accessories or separate components which may be used.

If the sealed rating of the operating coil circuit of a magnetically operated industrial control device exceeds 125 volt-amperes, the coil circuit rating is marked on the device.

Overload relays or industrial control equipment incorporating overload relays are identified as to their maximum tripping time at 600 per cent of the overload relay current element trip rating. The designations "Class 10, Class 20, and Class 30" are used to identify the maximum tripping times, with the Class number indicating the maximum tripping time in seconds. Overload relays with maximum tripping times of 10 or 30 seconds are marked Class 10 or Class 30 respectively. Overload relays with a maximum tripping time of 20 seconds may be marked Class 20. Overload relays with tripping times in excess of 30 seconds are marked with their maximum tripping times. All unmarked overload relays have a maximum tripping time of 20 seconds.

There are open, across-the-line starters intended for bolt on mounting to panelboards and dead front switchboards and are so restricted by the Listing Mark. They are provided with a cover or door and the remaining portions of the enclosure are provided by the panel or switchboard enclosure.

Some industrial control equipment is suitable for use as service equipment and may be so marked. Such marking is part of the Listing Mark or is an integral part of other required markings.

Some industrial control equipment incorporates neutrals factory bonded to the frame or enclosure. Such units are marked "Suitable Only For Use As Service Equipment."

Open type across-the-line starters designed only for use in panelboards or dead front switchboards employ Listing Marks with the product identity "INDUSTRIAL CONTROL EQUIPMENT FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS" or "IND. CONT. EQ. FOR USE IN PANELBOARDS AND DEAD FRONT SWITCHBOARDS."

For other than industrial control panels, enclosed type product Listing Marks contain the product identity "INDUSTRIAL CONTROL EQUIPMENT" or the abbreviation "IND. CONT. EQ." on the enclosure, or the product identity "INDUSTRIAL CONTROL EQUIPMENT ENCLOSED" on the mechanism mounted within the enclosure. In either case, the Listing Mark indicates that the overall product with its enclosure is Listed.

Enclosures for use with open type products employ Listing Marks with the product identification "Enclosure For Industrial Control Equipment" or "Enclosure For Ind. Cont. Eq." and are marked to specify the Listed open type products to be installed within. Look for a Listing Mark on both the enclosure and the open mechanism.

The "Enclosed Industrial Control Panel" and "Industrial Control Panel" Listing Marks cover both the enclosure and the panel provided with it. Open panels employ the "Open Industrial Control Panel" Listing Mark. The "Industrial Control Panel Enclosure" Listing Mark covers only the enclosure; the compatibility of the enclosure and the installed equipment and associated wiring has not been investigated unless an "Enclosed Industrial Control Panel" Listing Mark is also present.

"Drip-proof" equipment is so constructed that falling moisture or dirt does not interfere with the successful operation of the equipment.

"Watertight" equipment is so constructed that water does not enter the enclosure when subjected to a stream of water.

Equipment classed "Drip-proof" or "Watertight" is marked to indicate this fact.

The basic standard used to investigate products in this category is CAN/CSA C22.2 No. 14-M91, Industrial Control Equipment.

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