



October, 1975
 Supersedes Price List 29-320,
 pages 1-2, dated July 1, 1974,
 and Supp. page .01 dated
 September 26, 1974
 Mailed to: E, D, C/1901, 1902, 1999/PL

MCP Motor Circuit Protector

Motor Circuit Protector

The MCP is designed specifically for the protection of motor circuits. It operates on the magnetic principle with a current sensing coil in each of the three poles, with the trip-point adjustable from the front. MCP's are the fastest devices available for clearing low level faults and offer circuit breaker features and convenience, resettable, quick make-quick break, dead front, and protection against single phasing.

MCP's are rated to correspond to NEMA starter sizes.

Current Limiter Attach. (Size 0-4 Only)

The EL current limiter is an attachment that bolts to the load end of the MCP to provide increased interrupting capacity. The combination is UL Listed as a recognized component for application at up to 200,000 amps symmetrical at 600 volts Ac. It is coordinated with the MCP so that normal short circuits will be cleared automatically by the MCP, opening all 3 poles, and only the rare high fault will cause the limiter to function. Current limiters must be applied as shown in the table below.

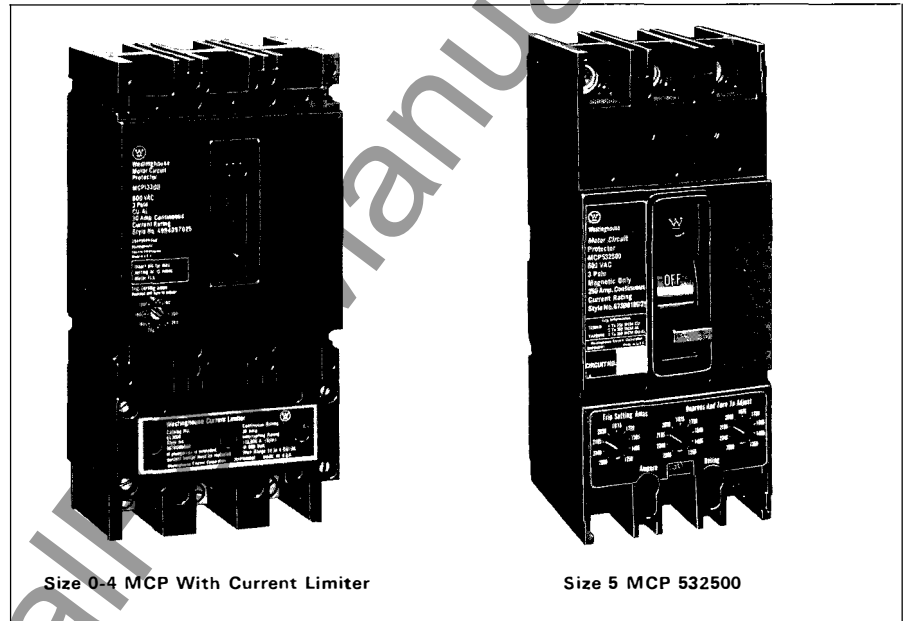
Terminals

Terminals are included with both the MCP and Current Limiter. Standard terminals are aluminum alloy, with non-aluminum terminals optional for use with only the MCP. Both standard and optional terminals will accommodate aluminum or copper conductors. When using aluminum conductors, use of joint compound is recommended. Wire ranges are listed below.

MCP or Limiter	Terminals	
	Standard Alum.	Optional Non-Alum.
Size 0, 1, 2	# 14-# 4	# 14-1/0
Size 3	# 6-3/0	# 14-1/0
Size 4	# 4-4/0	# 4-4/0
Size 5 (250 Amp.)	# 4-350MCM	# 4-350MCM
Size 5 (400 Amp.)	(2)-3/0 -250MCM	(2)-3/0 -250MCM
Limiters to 50 amps.	# 14-# 2
Limiters to 100 amps.	# 1-4/0
Limiters to 150 amps.	# 1-4/0

Underwriters' Laboratories, Inc. Listed

The MCP is listed with Underwriters' Laboratories as a recognized component and requires additional listing by the control manufacturer in combination with a contactor and overload relay.



Motor Circuit Protectors -- For Prices, see Price List 29-020 P WE A Dis. Sym. CB-12.

Starter Size	Trip Range, Amps.	Contin-uous Amp. Rating	Catalog Numbers	
			With Standard Aluminum Alloy Terminals	With Optional Non-Aluminum Terminals
0	7-22	3	MCP0322R	MCP0322RC
0	18-58	7	MCP0358R	MCP0358RC
0	50-150	15	MCP03150R	MCP03150RC
1	100-300	30	MCP13300R	MCP13300RC
2	160-480	50	MCP23480R	MCP23480RC
3	275-1000	100	MCP331000R	MCP331000RC
4	450-1550	150	MCP431550R	MCP431550RC
4	575-1800	150	MCP431800R	MCP431800RC
5	1250-2500	250	MCP532500	MCP532500C
5	2000-4000	400	MCP534000	MCP534000C

Current Limiters

Limiter Cat. No.	For MCP Cat. No. ⑤
EL3003R	MCP0322R
EL3007R	MCP0358R
EL3015R	MCP03150R
EL3030R	MCP13300R
EL3050R	MCP23480R
EL3100R	MCP331000R
EL3150R	MCP431550R
EL3150R	MCP431800R

Accessories for MCP®

For accessories such as motor operators, terminal shields, handle locks, handle mechanisms and rear studs, refer to 29-120 T WE A and 29-520 T WE A and select as follows:

For MCP Size	Use Access. For
0-4	FB
5 (250 Amp.)	KB
5 (400 Amp.)	LB

- ② On 400 amp size 5, an external resistor is supplied for voltages above 240 volts Ac and 24 volts Dc
- ③ Mounts only in right pole; only one Modification, marked ③ can be used in MCP. (Size 0-4).
- ④ On size 0-4 and 250 amp size 5, an external resistor is supplied for customer mounting, except for 120 volts Ac, 12, 24, 125 volts Dc.
- ⑤ Also applicable to MCP's with optional terminals.
- ⑥ Not Underwriters' Laboratories listed.
- ⑦ Except 400 amp size 5. Non-aluminum terminal suitable for copper only.

Modifications for MCP®

These modifications must be factory installed.

Description
Auxiliary Switches③
1A and 1B, 2A's and 2B's
Shunt Trip③
Undervoltage Release②③④
Moisture-Fungus Treatment

Interrupting Ratings

Maximum application current shall be determined by testing the MCP in combination with a contactor and overload relay. Additional capacity can be obtained by using the current limiter attachment.

Base Mounting Hardware

No charge when ordered with MCP. Order separately when required.

Size 0-4, Style No. 21C6782G18

Size 5 (250 Amp.), Style No.
624B375G14

Size 5 (400 Amp.), Style No.
21C6782G22

Further Information

List Prices: Price List 29-020 P WE A

Application: Application Data 29-360

Characteristic Curves: Appl. Data 29-360-A

Dimensions: Dimension Sheet 29-370



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Terminals

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Motor Circuit Protectors – For Prices, see Price List 29-020 Dis. Sym. CB-12.

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- Shunt Trip ⑨
- Undervoltage Release ② ③ ④
- Moisture-Fungus Treatment

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- ⑤ Also applicable to MCP's with optional terminals.
- ⑥ Not Underwriters' Laboratories listed.
- ⑦ Except 400 amp size 5. Non-aluminum terminal suitable for copper only.
- ⑧ Cat. No's. ending in CR were previously listed ending in RC. This is a Cat. No. change only, not a material change.

⑦ Changed since previous issue.



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Further Information

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Characteristic Curves: Appl. Data 29-360-A

Dimensions: Dimension Sheet 29-370