



Series C Motor Circuit Protectors

**General Information**

Designated as the Cutler-Hammer Types GMCP, HMCP, the Series C instantaneous-only motor circuit protector (MCP) is available in ratings from 3A to 600A for motor starter sizes 0 through 6. The MCP is designed to comply with the applicable requirements of Underwriters Laboratories, Inc. Standard UL489, Canadian Standards Association Standard C22.2 No. 5, and International Electrotechnical Commission Recommendations IEC 157-1.

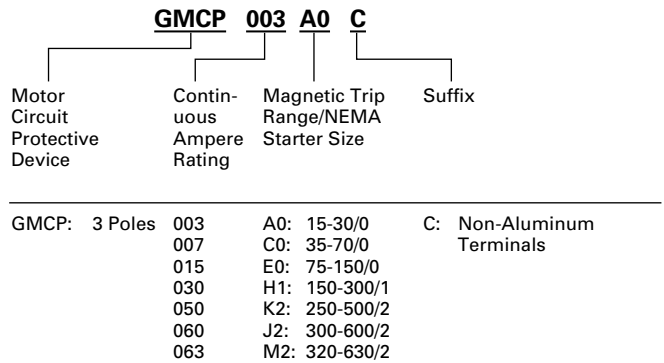
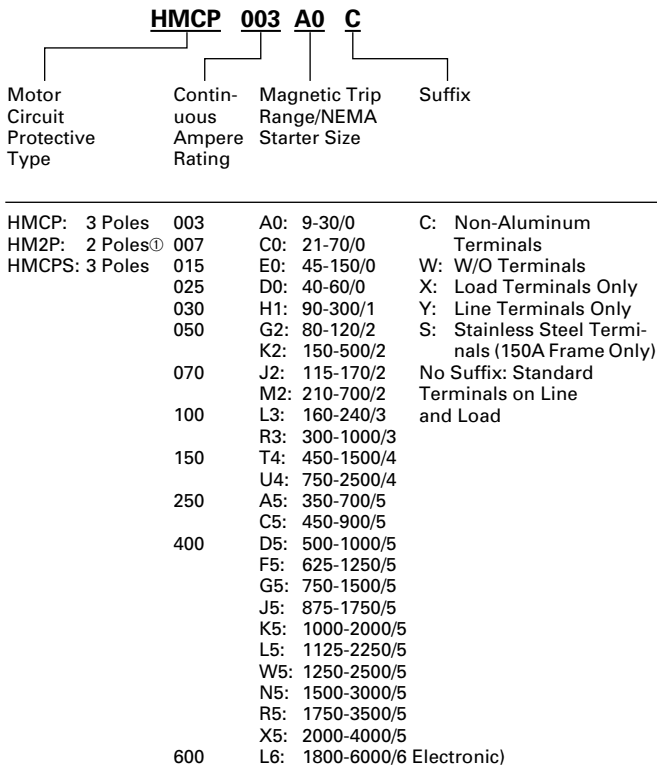
An innovative design of internal components allows higher MCP-starter combination interrupting ratings. The MCP is marked to permit proper electrical application within the assigned equipment ratings.

The MCP is a recognized component (UL File E7819) and complies with the applicable requirements of Underwriters Laboratories, Inc. Standard UL489. It is also designed to comply with the applicable requirements of Canadian Standards Association Standard C22.2 No. 5, International Electrotechnical Commission Recommendations IEC 157-1, and nameplates bear the CE marking.

**Catalog Numbering System**

This information is presented only as an aid to understanding catalog numbers. It is not to be used to build catalog numbers for circuit breakers or trip units.

**Motor Circuit Protector Catalog Number**



① On J- and K-Frame HMCPs only.

**K-Frame**

600 Vac Maximum, 250 Vdc Maximum

MCP Catalog Number <sup>①</sup>	NEMA Starter Size	Continuous Amperes	Cam Setting	Motor Full Load Center Amperes <sup>②</sup>	MCP Trip Setting <sup>③</sup>
HMCP400D5C	5	400	A	38.5 - 43.4	500
	5		B	43.5 - 48.0	565
	5		C	48.1 - 53.0	626
	5		D	53.1 - 57.6	690
	5		E	57.7 - 62.3	750
	5		F	62.4 - 67.3	810
	5		G	67.4 - 71.9	875
	5		H	72.0 - 76.9	935
	5		I	77.0 - 81.6	1000
HMCP400F5C	5	400	A	48.1 - 53.8	625
	5		B	53.9 - 59.9	700
	5		C	60.0 - 66.1	780
	5		D	66.2 - 72.3	860
	5		E	72.4 - 78.4	940
	5		F	78.5 - 83.8	1020
	5		G	83.9 - 89.9	1090
	5		H	90.0 - 96.1	1170
	5		I	96.2 - 102.0	1250
HMCP400G5C	5	400	A	57.7 - 64.6	750
	5		B	64.7 - 71.9	840
	5		C	72.0 - 79.2	935
	5		D	79.3 - 86.5	1030
	5		E	86.6 - 93.8	1125
	5		F	93.9 - 101.1	1220
	5		G	101.2 - 108.4	1315
	5		H	108.5 - 115.3	1410
	5		I	115.4 - 122.4	1500
HMCP400J5C	5	400	A	67.4 - 75.3	875
	5		B	75.4 - 83.8	980
	5		C	83.9 - 92.3	1090
	5		D	92.4 - 100.7	1200
	5		E	100.8 - 109.2	1310
	5		F	109.3 - 117.6	1420
	5		G	117.7 - 126.1	1530
	5		H	126.2 - 134.6	1640
	5		I	134.7 - 142.8	1750
HMCP400K5C	5	400	A	77.0 - 86.5	1000
	5		B	86.6 - 96.1	1125
	5		C	96.2 - 105.7	1250
	5		D	105.8 - 115.3	1375
	5		E	115.4 - 124.9	1500
	5		F	125.0 - 134.6	1625
	5		G	134.7 - 144.2	1750
	5		H	144.3 - 153.8	1875
	5		I	153.9 - 163.3	2000

MCP Catalog Number <sup>①</sup>	NEMA Starter Size	Continuous Amperes	Cam Setting	Motor Full Load Center Amperes <sup>②</sup>	MCP Trip Setting <sup>③</sup>
HMCP400L5C	5	400	A	86.6 - 97.3	1125
	5		B	97.4 - 108.4	1265
	5		C	108.5 - 118.8	1410
	5		D	118.9 - 129.9	1545
	5		E	130.0 - 140.7	1690
	5		F	140.8 - 151.5	1830
	5		G	151.6 - 162.3	1970
	5		H	162.4 - 173.0	2110
	5		I	173.1 - 183.6	2250
HMCP400W5C	5	400	A	96.2 - 108.0	1250
	5		B	108.1 - 119.9	1405
	5		C	120.0 - 132.3	1560
	5		D	132.4 - 144.2	1720
	5		E	144.3 - 156.1	1875
	5		F	156.2 - 168.0	2030
	5		G	168.1 - 179.9	2185
	5		H	180.0 - 192.3	2340
	5		I	192.4 - 204.0	2500
HMCP400N5C	5	400	A	115.4 - 129.9	1500
	5		B	130.0 - 144.2	1690
	5		C	144.3 - 158.4	1875
	5		D	158.5 - 173.0	2060
	5		E	173.1 - 187.6	2250
	5		F	187.7 - 201.9	2440
	5		G	202.0 - 216.1	2625
	5		H	216.2 - 230.7	2810
	5		I	230.8 - 244.9	3000
HMCP400R5C	5	400	A	134.7 - 151.5	1750
	5		B	151.6 - 168.4	1970
	5		C	168.5 - 185.3	2190
	5		D	185.4 - 201.9	2410
	5		E	202.0 - 218.8	2625
	5		F	218.9 - 235.7	2845
	5		G	235.8 - 252.6	3065
	5		H	252.7 - 269.2	3285
	5		I	269.3 - 285.7	3500
HMCP400X5C	5	400	A	153.9 - 173.0	2000
	5		B	173.1 - 192.3	2250
	5		C	192.4 - 211.5	2500
	5		D	211.6 - 230.7	2750
	5		E	230.8 - 249.9	3000
	5		F	250.0 - 269.2	3250
	5		G	269.3 - 288.4	3500
	5		H	288.5 - 307.6	3750
	5		I	307.7 - 326.9	4000

Instruction Leaflet/FRED Number 29C403

**L-Frame<sup>④</sup>**

600 Vac Maximum

MCP Catalog Number	NEMA Starter Size	Continuous Amperes	Cam Setting	Motor Full Load Center Amperes <sup>②</sup>	MCP Trip Setting
HMCP600L6W	6	600	A	138.5 - 184.5	1800
	6		B	184.6 - 230.7	2400
	6		C	230.8 - 276.8	3000
	6		D	276.9 - 323.0	3600
	6		E	323.1 - 369.1	4200
	6		F	369.2 - 415.3	4800
	6		G	415.4 - 461.4	5400
	6		H	461.5 - 507.7	6000

Instruction Leaflet/FRED Number 29C404

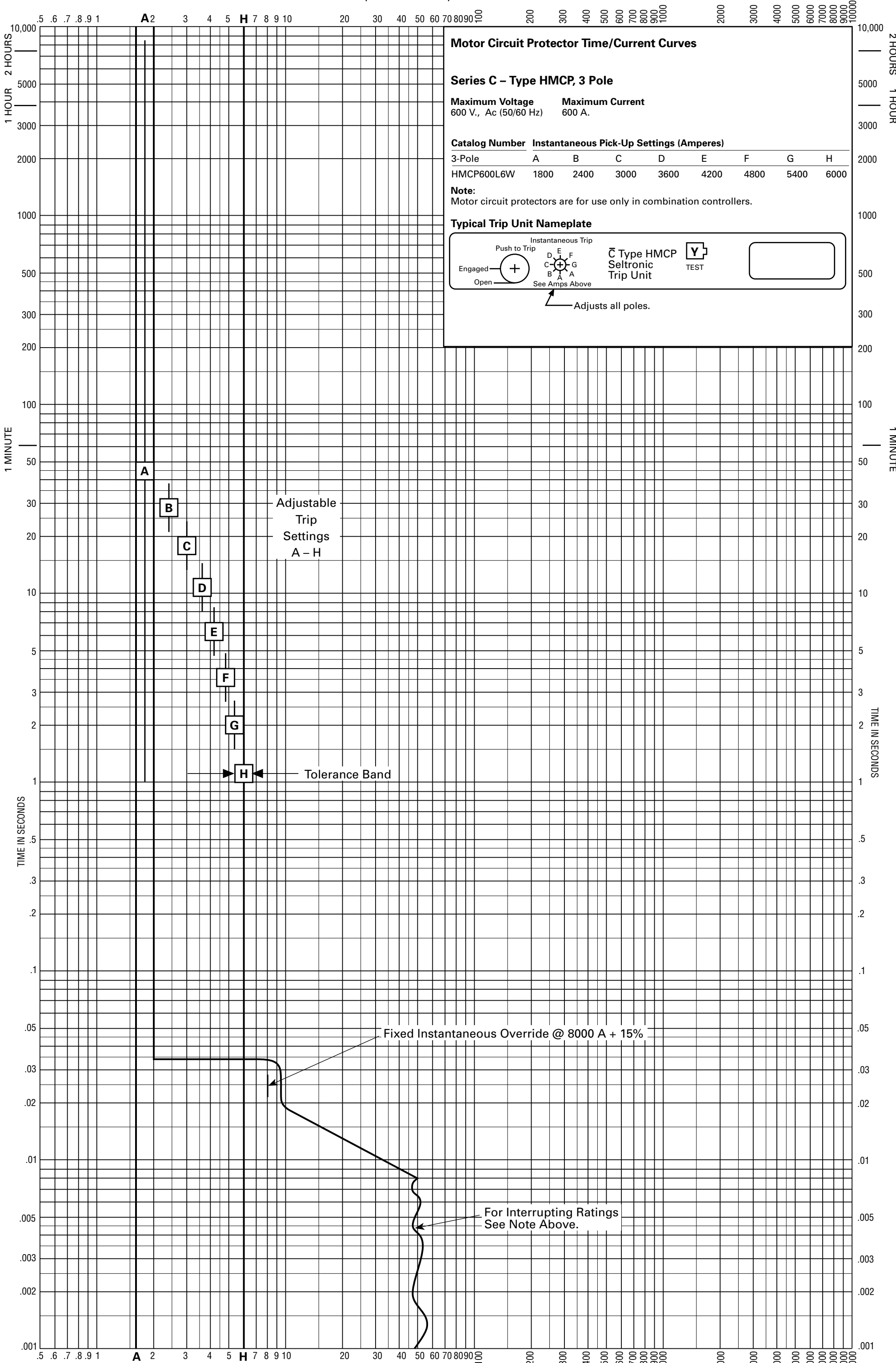
① Three-pole catalog numbers shown. Two-pole catalog numbers begin with "HM2P" in place of "HMCP."

② Motor FLA ranges are typical. The corresponding trip setting is at 13 times the minimum FLA value shown. Where a 13 times setting is required for an intermediate FLA value, alternate cam settings and/or MCP ratings should be used.

③ For Dc applications, actual trip levels are approximately 40% higher than values shown.

④ Equipped with electronic trip device.

Trip Current in Amperes



**Motor Circuit Protector Time/Current Curves**

**Series C – Type HMCP, 3 Pole**

**Maximum Voltage** 600 V., Ac (50/60 Hz)      **Maximum Current** 600 A.

Catalog Number	Instantaneous Pick-Up Settings (Amperes)							
3-Pole	A	B	C	D	E	F	G	H
HMCP600L6W	1800	2400	3000	3600	4200	4800	5400	6000

**Note:**  
Motor circuit protectors are for use only in combination controllers.

**Typical Trip Unit Nameplate**

Adjustable Trip Settings A – H

Tolerance Band

Fixed Instantaneous Override @ 8000 A + 15%

For Interrupting Ratings See Note Above.