

Product Details and Certifications

Cross Reference RA Part Number: PN-D12905

Product: 140MG-J8P-D20

Description: 140MG - Motor Circuit Protectors, J frame, 35..65 kA at 480V, MCP (magnetic only), Rated Current 200 A



Representative Photo Only (actual product may vary based on configuration selections)

SYSTEM DATA

Supply Voltage	480V 60Hz / 600V 60 Hz
Interrupt Rating[kA] ①	65 kA at 480V / 25kA at 600V

CIRCUIT BREAKER DATA

Bulletin Number	140MG - Motor Circuit Protectors
Number of Poles	3 Poles
Frame Size	J frame
Rated Current(A)	200 A
Protection	MCP (magnetic only)

MANUFACTURING

Assembly	Factory Assembled
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INTERNAL ACCESSORIES

Auxiliaries(AX), Alarm (AL), Auxiliary/Alarm Combination (AX/AL), Right Side Mounting	N/A
Voltage for Aux Alarm Combination	N/A

① The interrupting rating for MCPs is dependent upon the controller used. Please contact your local Rockwell Automation sales office or Allen-Bradley distributor for further information.

Motor Circuit Protectors

Catalog Number Explanation — 125A, H-Frame & 250 A, J-Frame

Complete Motor Circuit Protector Assemblies with Factory-Installed Options

Examples given in this section are not intended to be used for product selection. Use these configurations only to select all factory-installed options for shunt trips, undervoltage release units, auxiliary contacts, and alarm contacts. Use the codes from Table f to add on to the motor circuit protector cat. no. selected on the previous pages to form a complete cat. no. for a complete assembly with factory-installed options.



140MG - J 8 P - D20

a
b
c
d
e
f

a

Bulletin No.	
Code	Description
140MG	Global Motor Circuit Protector

d

Protection Type	
Code	Description
P	Adjustable magnetic only (less than 13 x I _n)

b

Frame/Rating	
Code	Description
H	125 A
J	250 A

e

Current Range	
Code	Description
B	e.g., B30 = 3 A
C	e.g., C30 = 30 A
D	e.g., D20 = 200 A

c

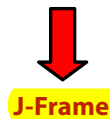
Interrupting Rating/Breaking Capacity (based on I _c at 480V)	
Code	Description
8	High break

f

Factory-Installed Internal Options ♦	
Shunt Trip and Undervoltage Release Units	
Code	Description
SJ	Shunt Trip, 24...30V AC/DC
SK	Shunt Trip, 48...60V AC/DC
SD	Shunt Trip, 110...127V AC; 110...125V DC
SA	Shunt Trip, 220...240V AC; 220...250V DC
SB	Shunt Trip, 380...440V AC
SC	Shunt Trip, 480...525V AC
UJ	Undervoltage Release, 24...30V AC/DC
UR	Undervoltage Release, 48V AC/DC
UD	Undervoltage Release, 110...127V AC; 110...125V DC
UA	Undervoltage Release, 220...240V AC; 220...250V DC
UB	Undervoltage Release, 380...440V AC
UC	Undervoltage Release, 480...525V AC
No Digit	No Selection
Auxiliary and Alarm Contacts, Trip Units	
Code	Description
KA	1 Aux. Contact, 250V
TA	1 Alarm Contact, 250V
AA	1 Aux., 1 Alarm Contact, 250V
BA	2 Aux., 1 Alarm Contact, 250V
DA	1 Trip Unit Alarm Contact, 250V
FB	2 Aux. Contacts, 400V
AB	1 Aux., 1 Alarm Contact, 400V
AJ	1 Aux., 1 Alarm Contact, 24V
DJ	1 Trip Unit Alarm Contact, 24V

♦ Select up to two internal options: 1 for left side mounting (shunt trip or undervoltage release), 1 for right (auxiliary or alarm contact). Consult your local Rockwell automation sales office or Allen-Bradley distributor for further assistance.

MCP Performance Characteristics



		G-Frame	H-Frame	J-Frame	
Frame Size	[A]	125	125	250	
Poles		3	3	3	
Instantaneous Trip Settings	[A]	3...125	3...125	150...250	
Rated Insulation Voltage, U, IEC	[V]	800	1000	1000	
NEMA, UL, CSA	UL 489 Instantaneous Trip Circuit Breaker (Magnetic Only) Max SCCR. Combination Controller Rating ②				
	480V AC	[kA]	65	65	65
	600/347V AC	[kA]	25	–	–
	600V AC	[kA]	–	25	25
IEC 60947-2 GB14048.2	Rated Ultimate Short-circuit Breaking Capacity, I_{cu}				
	220-230V AC ①	[kA]	65 ⑤	100 ⑥	100
	400-415V AC	[kA]	36 ⑤	70 ⑥	70
	440V AC ①	[kA]	36 ⑤	65 ⑥	65
	500V AC	[kA]	30 ⑤	50 ⑥	50
	525V AC	[kA]	22 ⑤	30 ⑥	45
	690V AC	[kA]	6 ⑤	15 ⑥	15
	(DC) 250V – 2 Poles in Series	[kA]	36 ⑤	36 ⑥	70
	(DC) 500V – 3 Poles in Series	[kA]	–	36 ⑥	70
	Rated Service Short-circuit Breaking Capacity, I_{cs}				
	220-230V AC ①	[kA]	75% ⑤	100% ⑥	100%
	400-415V AC	[kA]	100% ⑤	100% ⑥	100%
	440V AC ①	[kA]	50% ⑤	100% ⑥	100%
	500V AC	[kA]	50% ⑤	100% ⑥	100%
	525V AC	[kA]	50% ⑤	100% ⑥	100%
	690V AC	[kA]	75% ⑤	100% ⑥	100%
(DC) 250V – 2 Poles in Series	[kA]	100% ⑤	100% ⑥	100%	
(DC) 500V – 3 Poles in Series	[kA]	–	100% ⑥	100%	
Mechanical Life	[No. of Operations]	25000	25000	25000	
	[Operations per Hour]	240	240	240	
Electrical Life @ 415V (AC)	[No. of Operations]	8000	8000	8000	
	[Operations per Hour]	120	120	120	
Wire Temperature Rating ④	[°C]	Cu 75 °C	Al or Cu 75 °C	Al or Cu 75 °C	
Ambient Temperature w/out derating	°F [°C]	104 °F [40 °C]	104 °F [40 °C]	104 °F [40 °C]	
Operating Temperature	°F [°C]	-13...+158 °F [-25...+70 °C]	-13...+158 °F [-25...+70 °C]	-13...+158 °F [-25...+70 °C]	
Storage Temperature	°F [°C]	-40...158 °F [-40...+70 °C]	-40...158 °F [-40...+70 °C]	-40...158 °F [-40...+70 °C]	
Dimensions	[mm]	76.2x70x130	90x82.5x130	105x82.5x160	
[Width/Depth/Height]	[inches]	3x2.76x5.12	3.54x3.25x5.12	4.13x3.25x6.3	
Weight (approximate)	lb [kg]	2.4 [1.1]	2.6 [1.2]	5.5 [2.5]	

① These ratings have not been tested for the CCC listing.

② The Short Circuit value is based on a combined of MCP, motor contactor and overload relay as a UL60497-4-1 Type D Combination Motor Controller. Refer to the AB Global Short Circuit Current Ratings Tables, or contact your local Allen Bradley Representative.

③ Adjustable between 1...10x motor FLA. Value based on 1200A rating plug.

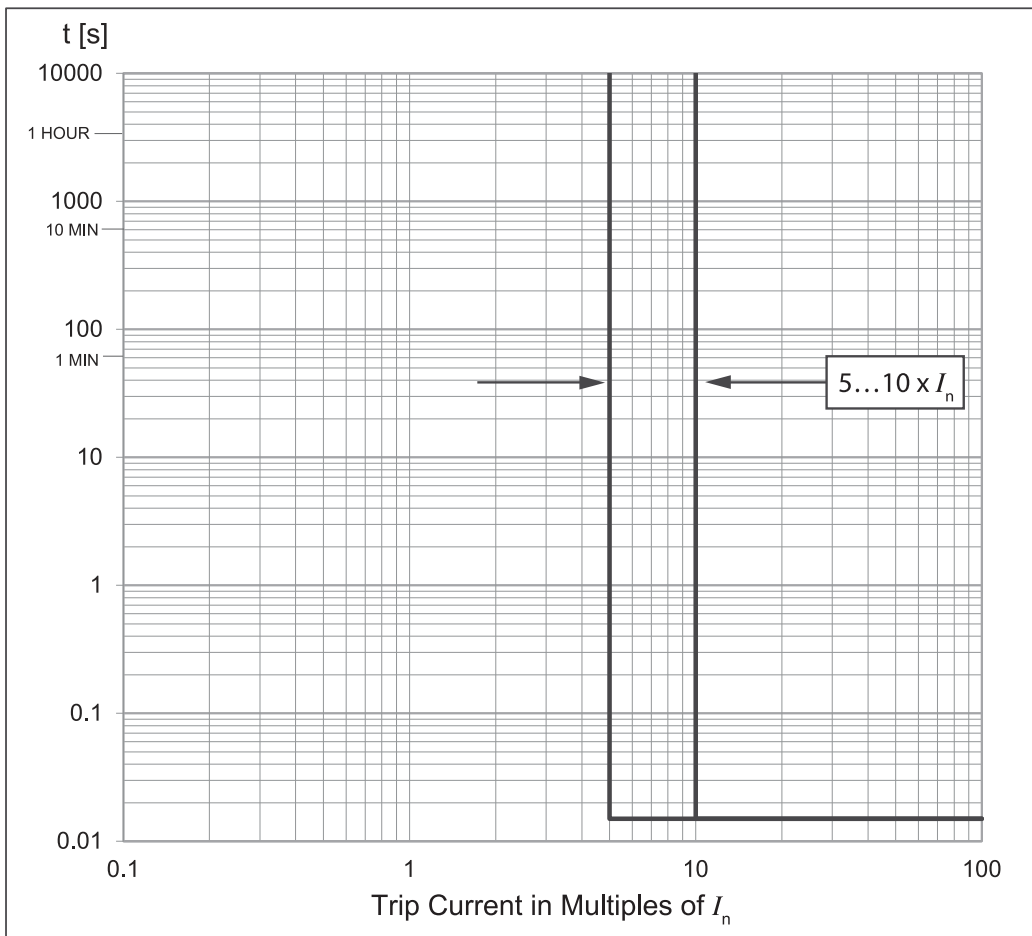
④ Wire temperature Rating is determined by testing the Motor Circuit Protector under full load current with the conductors sized for 75 °C.

3A–7A, G Frame

		230V	415V	440V	500–525V	690V	250V DC
⑤	I_{cu} [kA]	5	5	3	3	3	5
	I_{cs} [kA]	100%	100%	100%	100%	100%	100%

Bulletin 140MG-J

Maximum Current: 150...250 A



Instantaneous Pick-up Setting (Amperes)

Catalog Number	A	B	C	D	E	F	G	H	I
140MG-J8P-D15	750	844	938	1031	1125	1219	1313	1406	1500
140MG-J8P-D17	875	984	1094	1203	1313	1422	1531	1641	1750
140MG-J8P-D20	1000	1125	1250	1375	1500	1625	1750	1875	2000
140MG-J8P-D22	1125	1266	1406	1547	1688	1828	1969	2109	2250
140MG-J8P-D25	1250	1406	1563	1719	1875	2031	2188	2344	2500



Typical Trip Unit Nameplate

I_3 [A]									
A	B	C	D	E	F	G	H	I	
750	844	938	1031	1125	1219	1313	1406	1500	

See chart on left for trip setting values.

Note: Motor circuit protectors are for use only in combination controllers.
 For DC applications, pick-up settings are approximately 40% higher.