

Motor Circuit Protectors

Rated Operational Current I_e [A]	Magnetic Trip Current [A]									3-phase Hp Ratings ⁽¹⁾				Max. kW, 3-Phase — AC-3 ⁽¹⁾				Cat. No. ⁽²⁾
	Cam Setting									200V	230V	460V	575V	230V	400/415V	500V	690V	
	A	B	C	D	E	F	G	H	I									
G-Frame																		
3	12	15	17	20	23	25	28	30	33	0.5	0.5	1.5	1	0.6	0.75	1.1	1.5	140MG-G8P-B30
7	28	34	40	46	53	59	65	71	77	0.75	1	2	3	1.1	2.2	3	4	140MG-G8P-B70
15	45	60	75	90	105	120	135	150	165	2	2	5	5	3	5.5	7.5	11	140MG-G8P-C15
30	90	120	150	180	210	240	270	300	330	3	5	10	10	5.5	11	15	22	140MG-G8P-C30
50	150	200	250	300	350	400	450	500	550	10	10	25	25	11	22	22	37	140MG-G8P-C50
70	210	280	350	420	490	560	630	700	770	15	15	40	40	15	30	37	55	140MG-G8P-C70
80	240	320	400	480	560	640	720	800	880	20	20	50	60	22	45	55	75	140MG-G8P-C80
100	300	400	500	600	700	800	900	1000	1100	25	25	60	75	30	55	75	100	140MG-G8P-D10
125	375	500	625	750	875	1000	1125	1250	1375	30	30	75	100	37	55	75	110	140MG-G8P-D12
H-Frame																		
3	12	15	17	20	23	25	28	30	33	0.5	0.5	1.5	1	0.6	0.75	1.1	1.5	140MG-H8P-B30
7	28	34	40	46	53	59	65	71	77	0.75	1	2	3	1.1	2.2	3	4	140MG-H8P-B70
15	45	60	75	90	105	120	135	150	165	2	2	5	5	3	5.5	7.5	11	140MG-H8P-C15
30	90	120	150	180	210	240	270	300	330	3	5	10	10	5.5	11	15	22	140MG-H8P-C30
50	150	200	250	300	350	400	450	500	550	10	10	25	25	11	22	22	37	140MG-H8P-C50
70	210	280	350	420	490	560	630	700	770	15	15	40	40	15	30	37	55	140MG-H8P-C70
80	240	320	400	480	560	640	720	800	880	20	20	50	60	22	45	55	75	140MG-H8P-C80
100	300	400	500	600	700	800	900	1000	1100	25	25	60	75	30	55	75	100	140MG-H8P-D10
125	625	703	781	859	938	1016	1094	1172	1250	30	30	75	100	37	55	75	110	140MG-H8P-D12
I-Frame																		
100	600	675	750	825	900	975	1050	1125	1200	25	25	60	75	30	55	75	100	140MG-I8P-D10
110	660	743	825	908	990	1073	1150	1238	1320	25	30	60	75	30	55	75	100	140MG-I8P-D11
125	750	844	938	1031	1125	1219	1313	1406	1500	30	30	75	100	37	55	75	110	140MG-I8P-D12
150	900	1013	1125	1238	1350	1463	1575	1688	1800	30	40	75	100	45	75	90	132	140MG-I8P-D15
J-Frame																		
150	750	844	938	1031	1125	1219	1313	1406	1500	30	40	75	100	45	75	90	132	140MG-J8P-D15
175	875	984	1094	1203	1313	1422	1531	1641	1750	40	40	100	125	55	90	110	160	140MG-J8P-D17
200	1000	1125	1250	1375	1500	1625	1750	1875	2000	50	50	125	150	55	110	132	160	140MG-J8P-D20
225	1125	1266	1406	1547	1688	1828	1969	2109	2250	50	60	125	150	90	110	160	200	140MG-J8P-D22
250	1250	1406	1563	1719	1875	2031	2188	2344	2500	60	75	150	200	132	132	160	250	140MG-J8P-D25
Rated Operational Current I_e [A]		Magnetic Trip Current [A]							3-phase Hp Ratings ⁽¹⁾				Max. kW, 3-Phase — AC-3 ⁽¹⁾				Cat. No. ⁽²⁾	
		I_3 (adjustable) [A]							200V	230V	460V	575V	230V	400/415V	500V	690V		
K-Frame																		
300		300...3000							75	75	150	200	55	110	160	200	140MG-K8P-D30	
400		400...4000							100	100	200	250	90	160	200	250	140MG-K8P-D40	
M-Frame																		
600		600...6000							125	150	300	400	110	200	250	355	140MG-M8P-D60	
800		800...8000							150	200	400	500	160	250	355	500	140MG-M8P-D80	
N-Frame																		
1200 ⁽³⁾		1200...12000							250	300	600	700	200	250	500	710	140MG-N8P-E12	

(1) The Hp and kW ratings shown are for reference only. The final selection of the MCP should be made based on motor full load current and the requirements of local electrical codes.

(2) The interrupting rating for MCPs is dependent upon the controller used. Please see the global short-circuit ratings tables at <http://www.rockwellautomation.com/global/support/global-sccr.page>, or contact your local Rockwell Automation sales office or Allen-Bradley distributor.

(3) I_3 is adjustable between 1...10x motor FLA. Values based on 1200 A rating plug.

Bulletin 140MG Motor Circuit Protectors

Time-Current Curves

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

Figure 72 - 140MG-G Time-Current Curve

- Maximum voltage: 600Y/347V AC, (50/60 Hz)
- Maximum current: 3...125 A

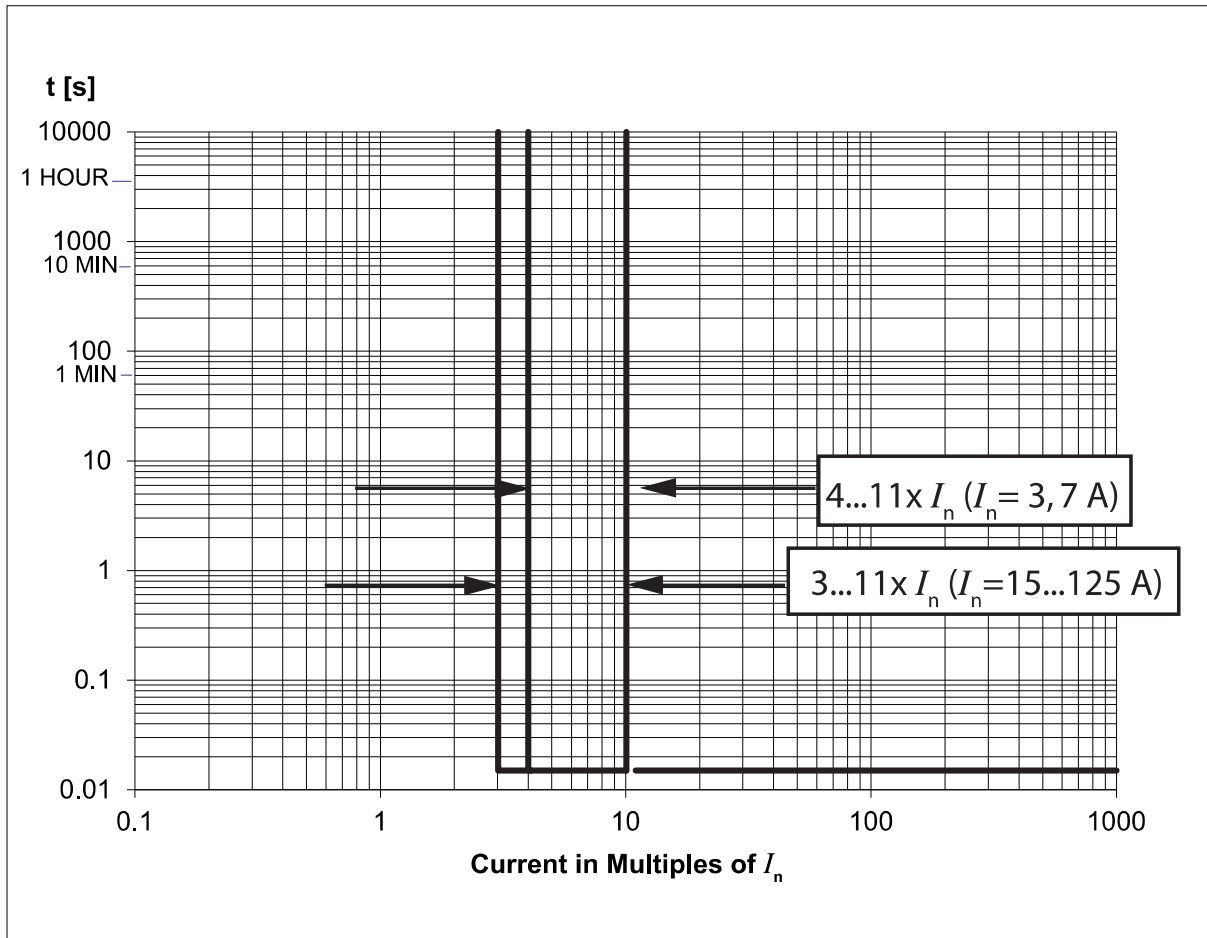


Table 151 - Instantaneous Pick-up Setting (Amperes)

Catalog Number	A	B	C	D	E	F	G	H	I
140MG-G8P-B30	9	12	15	18	21	24	27	30	33
140MG-G8P-B70	21	28	35	42	49	56	63	70	77
140MG-G8P-C15	45	60	75	90	105	120	135	150	165
140MG-G8P-C30	90	120	150	180	210	240	270	300	330
140MG-G8P-C50	150	200	250	300	350	400	450	500	550
140MG-G8P-C70	210	280	350	420	490	560	630	700	770
140MG-G8P-C80	240	320	400	480	560	640	720	800	880
140MG-G8P-D10	300	400	500	600	700	800	900	1000	1100
140MG-G8P-D12	375	500	625	750	875	1000	1125	1250	1375



Table 152 - Typical Trip Unit Nameplate

I_3 [A]									
A	B	C	D	E	F	G	H	I	
300	400	500	600	700	800	900	1000	1100	

See [Table 151](#) for trip setting values.