

Table 29 - Motor Circuit Protectors

Rated Operational Current (I_e) [A]	Motor Current Adjustment Range [A]	Nominal Magnetic Trip Current [A]	Max. Short Circuit Current [kA]		Max. 3-phase Hp Ratings ⁽¹⁾				Max. kW, 3-Phase – AC-3 ⁽¹⁾				Cat. No.
			400V	480V	200V	230V	460V	575V	230V	400/415V	500V	690V	
			(I_{cu})	(group motor)									
D-Frame, Fixed Magnetic (14 x I_n)													
0.16	—	2.2	100	65	—	—	—	—	—	0.02	0.06	0.06	140MT-D9N-A16
0.25	—	3.5	100	65	—	—	—	—	—	0.04	0.09	0.09	140MT-D9N-A25
0.4	—	5.6	100	65	—	—	—	—	0.06	0.09	0.12	0.18	140MT-D9N-A40
0.63	—	8.8	100	65	—	—	—	—	0.09	0.18	0.18	0.25	140MT-D9N-A63
1	—	14	100	65	—	—	0.5	0.5	0.18	0.25	0.37	0.55	140MT-D9N-B10
1.6	—	22	100	65	—	—	0.75	—	0.25	0.55	0.75	1.1	140MT-D9N-B16
2.5	—	35	100	65	0.5	0.5	1	1.5	0.37	0.75	1.1	1.8	140MT-D9N-B25
4	—	56	100	65	0.75	0.75	2	3	0.75	1.5	2.2	3	140MT-D9N-B40
6.3	—	88	100	65	1	1.5	3	5	1.5	2.2	3	4	140MT-D9N-B63
10	—	140	100	65	2	2	5	7.5	2.2	4	6.3	7.5	140MT-D9N-C10
16	—	224	100	65	3	5	10	10	4	7.5	10	13	140MT-D9N-C16
20	—	280	100	65	5	5	10	15	5.5	10	11	17	140MT-D9N-C20
25	—	350	65	50	5	7.5	15	20	5.5	11	15	22	140MT-D9N-C25
29	—	406	50	50	7.5	10	20	25	7.5	13	18.5	25	140MT-D9N-C29
32	—	448	50	50	7.5	10	20	30	7.5	15	20	25	140MT-D9N-C32
36	—	432	50	30	10	10	25	30	—	18.5	20	25	140MT-D9N-C36 ⁽²⁾
40	—	480	50	30	10	10	30	30	11	20	24	30	140MT-D9N-C40 ⁽²⁾
F-Frame, Fixed Magnetic (15 x I_n)													
25	—	375	100	65	5	7.5	15	20	5.5	11	15	22	140MT-F9N-C25
32	—	480	65	65	7.5	10	20	30	7.5	15	18.5	30	140MT-F9N-C32
38	—	570	65	65	10	10	25	30	11	18.5	22	30	140MT-F9N-C38
45	—	675	65	65	10	15	30	40	11	22	30	37	140MT-F9N-C45

(1) Hp/kW ratings shown are for reference. The final selection of the MCP depends on the actual motor full load current.

(2) Suitable for continuous operation at 90% current rating at 480V only if used in a minimum enclosure size of 250 x 175 x 150 mm (10 x 7 x 6 in).



Motor Circuit Protectors (Cat. No. 140MT-D9N, 140MT-F9N) do not provide thermal protection for themselves nor for downstream components. You must install a separate protective device against thermal overload, such as an overload relay as part of a starter combination. In applications that use these devices as the short-circuit protection device of heavy-duty starting motors, the rated operational current I_e of the devices must be over-sized using the factors in [Table 30](#).

Table 30 - Oversizing for Heavy-duty Starting

Current Range [A]	Device Type	Class 10	Class 20	Class 30
0.16...10	140MT-D9N	—	—	—
16...29		—	—	1.41
32...40		—	1.41	1.73
9...38	140MT-F9N	—	1.41	1.73
45		—	—	1.41