

3.1

NEMA Manual Starters

Starters and Switches

3

Enclosed Types

Starter and Pilot Light Mounted in Type 1 Enclosure



Number of Poles	Enclosure Type	Product Feature	Catalog Number ①
1	General purpose Type 1	Starter only	MST01SN
		Starter with pilot light	MST01SN1P
2		Starter only	MST02SN
		Starter with pilot light	MST02SN1P

Starter, Hand/Auto and Pilot Light—Type 1 Enclosure



2	General purpose NEMA 1	Starter with Hand/Auto switch and pilot light	MST02RN1PH ②
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Waterproof Type 3, 4 and 5



1	Waterproof Type 3, 4 and 5	Through hub	MST01AH
2		Through hub	MST02AH

Hazardous Location Type 7D, 9E, 9F and 9G



1	Hazardous location ③	Through hub	MST01EH
2		Through hub	MST02EH

Typical Heater



Heater Element Installation



Heater Selection for MS Starters

Motor Full Load Current	Catalog Number	Motor Full Load Current	Catalog Number	Motor Full Load Current	Catalog Number	Motor Full Load Current	Catalog Number
0.4–0.43	MSH-5A	1.04–1.15	MSH1-3A	2.72–2.95	MSH3-4A	7.04–7.74	MSH8-8A
0.44–0.48	MSH-55A	1.16–1.27	MSH1-45A	2.96–3.27	MSH3-7A	7.75–8.46	MSH9-7A
0.49–0.53	MSH-61A	1.28–1.35	MSH1-6A	3.28–3.59	MSH4-1A	8.47–9.35	MSH10-6A
0.54–0.58	MSH-67A	1.36–1.51	MSH1-7A	3.60–3.99	MSH4-5A	9.36–10.30	MSH11-7A
0.59–0.64	MSH-74A	1.52–1.67	MSH1-9A	4.00–4.39	MSH5-0A	10.31–11.35	MSH12-9A
0.65–0.71	MSH-81A	1.68–1.83	MSH2-1A	4.40–4.79	MSH5-5A	11.36–12.47	MSH14-2A
0.72–0.78	MSH-89A	1.84–1.99	MSH2-3A	4.80–5.26	MSH6-0A	12.48–13.67	MSH15-6A
0.79–0.87	MSH-98A	2.00–2.23	MSH2-5A	5.27–5.83	MSH6-6A	13.68–15.12	MSH17-1A
0.88–0.95	MSH1-1A	2.24–2.47	MSH2-8A	5.84–6.39	MSH7-3A	15.13–16.00	MSH18-6A
0.96–1.03	MSH1-2A	2.48–2.71	MSH3-1A	6.40–7.03	MSH8-0A	—	—

Notes

- ① Does not include heater. Select heater from table above.
- ② For OFF function, use OFF position on starter toggle switch.
- ③ Type 7D = Type 7, Class I, Group D; Type 9E, 9F and 9G = Type 9, Class II, Groups E, F and G.