Motor Logic Solid-State Overload Relays

Motor Logic solid-state overload relays (SSOLRs) feature: 3 to 1 adjustment for trip current; phase loss and unbalance protection; direct replacement for Type S melting alloy. They are ambient insensitive and self–powered. Switch selectable trip class; Class II ground fault detection; and direct replacement for Type S melting alloy. Electrical remote reset is also available.

Table 16.274: Class 10/20 (Selectable): For Separate Mounting Solid-State Overload Relay, 600 Vac Maximum

NEMA Size*[6]* (3-Pole)	Full Load Current Range (A)	Open Type
		Trip Class 10/20
00B	1.5–4.5 *[7]*	9065SFB20
00C	3–9 *[7]*	9065SFC20
0	6–18 *[7]*	9065SF020
1	9–27 *[7]*	9065SF120
2	15–45	9065SF220
3	30–90	9065SF320
4	45–135	9065SF420

Table 16.275: Class 10/20 (Selectable): Replacement SSOLR for Retrofit of Square D Type S Starter Solid-State Overload Relay 600 Vac Maximum

Locate 8536 Starter in this column		Order Class 9065 Overload Relay from this column
NEMA Size*[6]*	Full Load Current Range (A)	Open Type
		Trip Class 10/20
00B *[7]*	1.5–4.5	9065SFB20
00C *[7]*	3–9	9065SFC20
0 *[7]*	6–18	9065SF020
1 *[7]*	9–27	9065SF120
2	15–45	9065ST220
3	30–90	9065ST320
4	45–135	9065ST420
5 *[8]*	90–270	9065ST520
5 *[9]*	90–270	9065SF520
6 *[8]*	180–540	9065ST620
7 *[8]*	270–810	9065ST720

[6] Size 00B and 00C are not actual NEMA sizes. These designations are used to differentiate the lower FLA of these devices from the NEMA Size 00 Motor Logic solid-state overload relay.
[7] Size 00B, 00C, 0, and 1 come without lugs. Lower amperage loads can be protected by looping the power wires. Lugs are available. See Table 16.348.
[8] Size 5, 6, and 7 replacement overload relays are only for existing NEMA style Type S starters with a Motor Logic overload relay. External CTs and additional components are not included.
[9] Size 5 is a complete drop-in replacement for Square D Type S melting alloy, bimetallic, and Y500 overload relays **only**.

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