



Solid State Overloads and Field Modification Kits, Class 48



ESP100 Solid State Overload Relay

Ordering Information

- ▶ Accessories see bottom of page.
- ▶ Dimensions see pages 489-490.
- ▶ Wiring Diagrams see pages 489-490.
- ▶ Application Data see page 480.
- ▶ Technical Data see page 482.
- ▶ To retrofit existing Thermal Furnas Brand Starters with the ESP100 Solid State Overload Relay add the appropriate suffix to the end of the catalog number from the Retrofit Plates table shown below along with **\$12.80** to the list price. Example: 48ASE3M201P.
- ▶ 3RB10 compact solid-state overload see pages 259-260.
- ▶ 3RB12 solid state overload with ground fault protection see pages 261-262.
- ▶ 3UF5 solid state overload with communication see page 268.

Solid State—Class 48 ESP100, Three Phase

Full Load Amp Current Range	Phase	Frame ^① Size	Manual Reset Class 10 Catalog No	Price \$	Manual Reset Class 20 Catalog No	Price \$	Manual Reset Class 30 Catalog No	Price \$	Self-Reset Class 10 Catalog No	Price \$	Self-Reset Class 20 Catalog No	Price \$	Self-Reset Class 30 Catalog No	Price \$
0.25-1	3	A	48ASA3M10	104.00	48ASA3M20	104.00	48ASA3M30	104.00	48ARA3R10	104.00	48ARA3R20	104.00	48ARA3R30	104.00
0.75-3	3	A	48ASB3M10	104.00	48ASB3M20	104.00	48ASB3M30	104.00	48ARB3R10	104.00	48ARB3R20	104.00	48ARB3R30	104.00
2.5-10	3	A	48ASD3M10	104.00	48ASD3M20	104.00	48ASD3M30	104.00	48ARD3R10	104.00	48ARD3R20	104.00	48ARD3R30	104.00
9-18	3	A1	48ASE3M10	104.00	48ASE3M20	104.00	48ASE3M30	104.00	48ARE3R10	104.00	48ARE3R20	104.00	48ARE3R30	104.00
13-27	3	A1	48ASF3M10	104.00	48ASF3M20	104.00	48ASF3M30	104.00	48ARF3R10	104.00	48ARF3R20	104.00	48ARF3R30	104.00
20-40	3	A1	48ASG3M10	135.00	48ASG3M20	135.00	48ASG3M30	135.00	48ARG3R10	135.00	48ARG3R20	135.00	48ARG3R30	135.00
13-27	3	B	48BSF3M10	146.00	48BSF3M20	146.00	48BSF3M30	146.00	48BRF3R10	146.00	48BRF3R20	146.00	48BRF3R30	146.00
22-45	3	B	48BSH3M10	146.00	48BSH3M20	146.00	48BSH3M30	146.00	48BRH3R10	146.00	48BRH3R20	146.00	48BRH3R30	146.00
30-60	3	B	48BSJ3M10	177.00	48BSJ3M20	177.00	48BSJ3M30	177.00	48BRJ3R10	177.00	48BRJ3R20	177.00	48BRJ3R30	177.00
45-90	3	B	48BSK3M10	177.00	48BSK3M20	177.00	48BSK3M30	177.00	48BRK3R10	177.00	48BRK3R20	177.00	48BRK3R30	177.00
57-115	3	B	48BSL3M10	258.00	48BSL3M20	258.00	48BSL3M30	258.00	48BRL3R10	258.00	48BRL3R20	258.00	48BRL3R30	258.00
67-135	3	B	48BSM3M10	258.00	48BSM3M20	258.00	48BSM3M30	258.00	48BRM3R10	258.00	48BRM3R20	258.00	48BRM3R30	258.00
81-162 ^②	3	B	48BSN3M10	258.00	48BSN3M20	258.00	48BSN3M30	258.00	48BRN3R10	258.00	48BRN3R20	258.00	48BRN3R30	258.00
100-210 ^③	3	A	48ASS3M10	128.00	48ASS3M20	128.00	48ASS3M30	128.00	—	—	—	—	—	—
100-270 ^③	3	A	48ASU3M10	128.00	48ASU3M20	128.00	48ASU3M30	128.00	—	—	—	—	—	—
200-540 ^④	3	A	48ASX3M10	128.00	48ASX3M20	128.00	48ASX3M30	128.00	—	—	—	—	—	—
420-1220 ^⑤	3	A	48CSZ3M10	128.00	48CSZ3M20	128.00	48CSZ3M30	128.00	—	—	—	—	—	—

Solid State—Class 48 ESP100, Single Phase

Full Load Amp Current Range	Phase	Frame ^① Size	Manual Reset Class 10 Catalog No	Price \$	Manual Reset Class 20 Catalog No	Price \$	Manual Reset Class 30 Catalog No	Price \$	Self-Reset Class 10 Catalog No	Price \$	Self-Reset Class 20 Catalog No	Price \$	Self-Reset Class 30 Catalog No	Price \$
0.25-1	1	A	48ASA1M10	96.00	48ASA1M20	96.00	48ASA1M30	96.00	48ARA1R10	96.00	48ARA1R20	96.00	48ARA1R30	96.00
0.75-3	1	A	48ASB1M10	96.00	48ASB1M20	96.00	48ASB1M30	96.00	48ARB1R10	96.00	48ARB1R20	96.00	48ARB1R30	96.00
2.5-10	1	A	48ASD1M10	96.00	48ASD1M20	96.00	48ASD1M30	96.00	48ARD1R10	96.00	48ARD1R20	96.00	48ARD1R30	96.00
5-16	1	A	48ASE1M10	96.00	48ASE1M20	96.00	48ASE1M30	96.00	48ARE1R10	96.00	48ARE1R20	96.00	48ARE1R30	96.00

Field Modification Kits

Description		Frame Size	Catalog No	Price \$
Auxiliary Contact Kit ^⑥	NO Contact	All	49ASN0	31.00
	NC Contact	All	49ASNC	31.00
Reset Extender ^⑦	For use with Furnas System/89 MCC's and and other extra deep enclosures.	All	49ASRE	12.80
Overload Tamper Resistant Cover	Can be closed with wire seals to deter tampering of overload FLA adjustment dial.	A1, B	49ASTC (Bag of 10)	25.50
Dust Seal ^⑧	Can be used when overload auxiliary contact kit not used.	All	49ASDS (Bag of 10)	25.50
Spare Overload Dial	Can be removed to deter tampering of overload FLA adjustment dial.	A	49ASDL (Bag of 10)	25.50
Furnas Brand Thermal Overload Retrofit Kit, Sizes 0-1/4		A, A1	49ASRFTC	12.80

Retrofit Plates for Contactors

Replacement for Starter Sizes	ESP100 Overload Frame Size	Retrofit Plate Suffix	Price Adder \$
Size 0,1	A	1P	12.80
Size 0-1/4	A1	1P	12.80
Size 2, 2 1/2	B	2P	12.80
Size 3, 3 1/2	B	3P	12.80
Size 4	B	4P	12.80
Size 4 1/2, 5	A	5P	12.80
Size 6	A	6P	12.80

①To determine frame size of replacement solid state overload, refer to retrofit plates table.

②Temperature rating - 20° to 60°C.

③Requires use of 300:5 Current Transformers-3 of 97CT005 \$110 each.

④Requires use of 600:5 Current Transformers-3 of 97CT008 \$110 each.

⑤Requires use of 1200:5 Current Transformers-3 of 97CT012 \$110 each.

⑥Not available on self-reset versions.

⑦Discount Code: Replacement Parts.

Competitive Retrofit Overload Plates

Manufacturer	NEMA Size	Plate Part No	Price \$
A-B	0, 1	49D57090	13.30 ^②
A-B	2	49D57161	13.30 ^②
Sq. D	0, 1	49D57091	13.30 ^②

8 Panel Mounted Overload Relays