

All Celduc SSR's (Solid State Relays) are fitted with back-to-back thyristors and employ 4th generation TMS² technology with a very long life expectancy.

Celpac® SU series power relays

Pluggable control terminals

- Cost-effective, reliable and compact solution (22.5 mm pitch SSR solution)
- Mounting configuration compatible with all standard hockey puck style relays
- Over-voltage protection on input (*transil*)
- IP20 terminal protection cover (*removable*)
- Control status LED indication

Note: Current ratings are based on utilising SSR's with suitable heat sink.



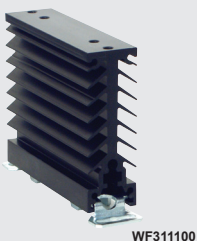
SU963460



SU865070



ESUC0450



WF311100

type	thyristor rating	switching voltage	peak voltage	control voltage	I ² t	description
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SU9 series *for resistive loads (AC-51) - heating* (H) 90 x (W) 22.5 x (D) 42 mm

• Zero-cross switching specifically designed for resistive loads

SU942460	25A	12 - 280 VAC	600V	3 - 32 VDC	600A ² s	solid state relay
SU963460	35A	24 - 600 VAC	1200V	3.5 - 32 VDC	882A ² s	solid state relay
SU965460	50A	24 - 600 VAC	1200V	3.5 - 32 VDC	1680A ² s	solid state relay
SU967460	75A	24 - 600 VAC	1200V	3.5 - 32 VDC	7200A ² s	solid state relay

SU8 series *for most load types - lamps and infrared* (H) 90 x (W) 22.5 x (D) 42 mm

• Zero-cross switching with low zero-crossing level (<12V) for most loads

DC control

SU842070	25A	12 - 275 VAC	600V	3 - 32 VDC	600A ² s	solid state relay
SU865070	50A	24 - 510 VAC	1200V	3.5 - 32 VDC	1680A ² s	solid state relay
SU867070	75A	24 - 510 VAC	1200V	3.5 - 32 VDC	7200A ² s	solid state relay

AC control

SU842970	25A	12 - 275 VAC	600V	160 - 240 VAC	600A ² s	solid state relay
SU865970	50A	24 - 510 VAC	1200V	160 - 240 VAC	1680A ² s	solid state relay

Accessories for SU series SSR's

type	thermal rating	description	dimensions (mm)		
			(H)	(W)	(D)

ESUC **current monitoring module for SU range**

Mounted directly onto SU or SUL devices, this module provides diagnostic information for up to 5 heating elements in parallel.

- Detection of: - partial load break - open mains - open load - short-circuited SSR

ESUC0450	2 - 40A	8 - 30 VDC	current monitoring module
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Heatsinks *SSR current ratings are based on sufficient cooling by the use of heatsinks*

WF311100	3.0K/W	DIN rail mountable heatsink for SU series relays	80	22.5	73
WF151200	2.2K/W	DIN rail mountable heatsink for SU series relays	80	45	73
WF112100	1K/W	DIN rail mountable heatsink for SU series relays	120	50	118

5TH24000	thermal transfer pads	for mounting SU relays onto heatsinks
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Complete "ready for use" SSR + heat sink combination

SUL9 range *for resistive loads (AC-51) - heating* (H) 90 x (W) 22.5 x (D) 112 mm

SUL942460	25A	12 - 280 VAC	600V	3 - 32 VDC	600A ² s	SSR + heat sink
SUL967460	75A	24 - 600 VAC	1200V	3.5 - 32 VDC	7200A ² s	SSR + heat sink

SUL/SUM 8 range *for most load types - lamps and infrared* (H) 90 x (W) 22.5 x (D) 112 mm

DC control

SUL842070	25A	12 - 275 VAC	600V	3 - 32 VDC	600A ² s	SSR + heat sink
SUL867070	75A	24 - 510 VAC	1200V	3.5 - 32 VDC	7200A ² s	SSR + heat sink

SUM8 (H) 90 x (W) 45 x (D) 112 mm

SUM865070	50A	24 - 510 VAC	1200V	3.5 - 32 VDC	1680A ² s	SSR + heat sink
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AC control (H) 90 x (W) 22.5 x (D) 112 mm

SUL842970	25A	12 - 275 VAC	600V	160 - 240 VAC	600A ² s	SSR + heat sink
SUL865970	50A	24 - 510 VAC	1200V	160 - 240 VAC	1680A ² s	SSR + heat sink

Fuse protection of solid state relays

Type 2 coordination: In case of short circuit the protection device must react before damaging the SSR, rendering the SSR suitable for further use.

Ultra-fast fuses must be used to protect solid state relays against short-circuits of the load. The I²t value of the fuse must be less than half of the typical I²t value of the Solid State Relay.