



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

Okpac® SO series power relays

- Very high immunity according to IEC/EN 61000-4-4 (bursts) and IEC/EN 61000-4-5 (spikes)
- UL/cUL, VDE (EN 60950), IEC/EN 60947-4-3, CE marking
- Regulated input current
- EMC compatible for industrial environment
- Control status LED

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

type	thyristor rating	switching voltage	peak voltage	control voltage	I ² t	description
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SO9 series for resistive loads (AC-51) - heating (H) 58.5 x (W) 45 x (D) 30 mm

• Zero-cross switching specifically designed for resistive loads

SO941460	12A	12 - 280 VAC	600V	3 - 32 VDC	128A ² s	solid state relay
SO942460	25A	12 - 280 VAC	600V	3 - 32 VDC	600A ² s	solid state relay
SO943460	40A	12 - 280 VAC	600V	3 - 32 VDC	1250A ² s	solid state relay
SO945460	50A	12 - 280 VAC	600V	3 - 32 VDC	2800A ² s	solid state relay
SO965460	60A	24 - 600 VAC	1200V	3.5 - 32 VDC	2800A ² s	solid state relay
SO967460	90A	24 - 600 VAC	1200V	3.5 - 32 VDC	7200A ² s	solid state relay

SO8 series for most load types - lamps and infrared (H) 58.5 x (W) 45 x (D) 30 mm

- Zero-cross switching with low zero-crossing level (<12V) for most loads
- Voltage protection on input (transil) and output (VDR)

DC control

SO842074	25A	12 - 275 VAC	600V	3 - 32 VDC	600A ² s	solid state relay
SO845070	50A	12 - 275 VAC	600V	3 - 32 VDC	2800A ² s	solid state relay
SO865070	50A	24 - 510 VAC	1200V	3.5 - 32 VDC	2800A ² s	solid state relay
SO867070	75A	24 - 510 VAC	1200V	3.5 - 32 VDC	7200A ² s	solid state relay
SO868070	95A	24 - 510 VAC	1200V	3.5 - 32 VDC	16200A ² s	solid state relay
SO869070	125A	24 - 510 VAC	1200V	3.5 - 32 VDC	22000A ² s	solid state relay

AC control

SO842974	25A	12 - 275 VAC	600V	20 - 265 VAC/DC	600A ² s	solid state relay
SO865970	50A	24 - 510 VAC	1200V	20 - 265 VAC/DC	2800A ² s	solid state relay
SO867970	75A	24 - 510 VAC	1200V	20 - 265 VAC/DC	7200A ² s	solid state relay
SO868970	95A	24 - 510 VAC	1200V	20 - 265 VAC/DC	16200A ² s	solid state relay
SO869970	125A	24 - 510 VAC	1200V	20 - 265 VAC/DC	22000A ² s	solid state relay

SO7 series for motor loads (AC-53) inductive loads and phase angle control applications

- Random switching Solid State Relay designed for high inductive loads, motors (AC-53)
- Large control voltage range 3.5-32 VDC with input current limiter
- Over-Voltage protection on input (transil) and output (RC and VDR)

DC control

SO765090	50A	24 - 510 VAC	1200V	3.5 - 32 VDC	2800A ² s	solid state relay
SO767090	75A	24 - 510 VAC	1200V	3.5 - 32 VDC	7200A ² s	solid state relay
SO768090	95A	24 - 510 VAC	1200V	3.5 - 32 VDC	16200A ² s	solid state relay

SOB series two phase SSR's

- Dual zero cross Solid State Relay with LED indication for each input
- Plug-in control terminals (connector to be ordered separately)

SOB9 designed for resistive loads

SOB965660	2 x 50A	24 - 600 VAC	1200V	10 - 30 VDC	2500A ² s	solid state relay
1Y042715						plug-in input screw terminal for above dual phase relay

Accessories for above SO series relays

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

Heatsinks SSR current ratings are based on sufficient cooling by the use of heatsinks

WF151200	2.2K/W	DIN rail mountable heatsink for SO series relays	80	45	73
WF108110	1.1K/W	DIN rail mountable heatsink for SO series relays	98	90	81
WF115100	0.9K/W	DIN rail mountable heatsink for SO series relays	90	110	100
5TH23000	pads	thermal transfer pads for mounting SO Solid State Relays onto heat sinks			
1LD12020	adaptor	adaptor for direct mounting of SO relays on DIN rail			