

# SINGLE PHASE SOLID STATE RELAYS

## okpac®



celduc® offers  
"ready to use"  
solutions with  
integrated heatsink.

## SO7

→ Random

Typical applications : Motors (AC-53), inductive loads and phase angle control applications.  
- Random or instant switching  
- Voltage protection on input (transil) and output (RC and VDR) depending on models.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>	Protec.
SO745090	50A	12-275VAC	600V	3-32VDC	2 800A <sup>2</sup> s	RC-VDR
SO763090	35A	24-510VAC	1200V	3.5-32VDC	1 250A <sup>2</sup> s	RC-VDR
SO765090	50A	24-510VAC	1200V	3.5-32VDC	2 800A <sup>2</sup> s	RC-VDR
SO767090	75A	24-510VAC	1200V	3.5-32VDC	7 200A <sup>2</sup> s	RC-VDR
SO768090	95A	24-510VAC	1200V	3.5-32VDC	16 200A <sup>2</sup> s	RC-VDR
SO769090	125A	24-510VAC	1200V	3.5-32VDC	24 000A <sup>2</sup> s	RC-VDR
SO789060	125A	24-690VAC	1600V	3.5-32VDC	22 000A <sup>2</sup> s	-



• Dim. 45 x 58.5 x 30 mm

These products should be mounted on heatsinks in order to reach nominal current.

## SO8

→ Zero-cross for  
most types of loads

SO8 range designed for most types of loads  
→ Zero cross with low zero-crossing level (<12V)  
→ Voltage protection on input (transil) with very high immunity according to IEC/EN61000-4-4 depending on models  
→ Control current < 13mA for all the voltage range at any operating temperature.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>	Protec.
SO842074	25A	12-275VAC	600V	3-32VDC	600A <sup>2</sup> s	VDR
SO842974	25A	12-275VAC	600V	20-265VAC/DC	600A <sup>2</sup> s	VDR
SO843070	35A	12-275VAC	600V	3-32VDC	1 250A <sup>2</sup> s	VDR
SO843970	35A	12-275VAC	600V	20-265VAC/DC	1 250A <sup>2</sup> s	VDR
SO845070	50A	12-275VAC	600V	3-32VDC	2 800A <sup>2</sup> s	VDR
SO845970	50A	12-275VAC	600V	20-265VAC/DC	2 800A <sup>2</sup> s	VDR
SO848070	95A	12-275VAC	600V	3-32VDC	16 200A <sup>2</sup> s	VDR
SO849070	125A	12-275VAC	600V	3-32VDC	22 000A <sup>2</sup> s	VDR
SO863070	35A	24-510VAC	1200V	3.5-32VDC	1 250A <sup>2</sup> s	VDR
SO863970	35A	24-510VAC	1200V	20-265VAC/DC	1 250A <sup>2</sup> s	VDR
SO865070	50A	24-510VAC	1200V	3.5-32VDC	2 800A <sup>2</sup> s	VDR
SO865970	50A	24-510VAC	1200V	20-265VAC/DC	2 800A <sup>2</sup> s	VDR
SO867070	75A	24-510VAC	1200V	3.5-32VDC	7 200A <sup>2</sup> s	VDR
SO867970	75A	24-510VAC	1200V	20-265VAC/DC	7 200A <sup>2</sup> s	VDR
SO868070	95A	24-510VAC	1200V	3.5-32VDC	16 200A <sup>2</sup> s	VDR
SO868970	95A	24-510VAC	1200V	20-265VAC/DC	16 200A <sup>2</sup> s	VDR
SO869070	125A	24-510VAC	1200V	3.5-32VDC	22 000A <sup>2</sup> s	VDR
SO869970	125A	24-510VAC	1200V	20-265VAC/DC	22 000A <sup>2</sup> s	VDR



• Dim. 45 x 58.5 x 30 mm

HIGH VOLTAGE RELAY	Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>	Protec.
	SO885060	50A	24-690VAC	1600V	3.5-32VDC	2 800A <sup>2</sup> s	-
	SO885960	50A	24-690VAC	1600V	20-265VAC/DC	2 800A <sup>2</sup> s	-
	SO887060	75A	24-690VAC	1600V	3.5-32VDC	7 200A <sup>2</sup> s	-
	SO888060	95A	24-690VAC	1600V	3.5-32VDC	16 200A <sup>2</sup> s	-
	SO889060	125A	24-690VAC	1600V	3.5-32VDC	22 000A <sup>2</sup> s	-

These products should be mounted on heatsinks in order to reach nominal current.

# SINGLE PHASE SOLID STATE RELAYS

## SO9

→ Zero-cross Resistive loads (AC-51)



• Dim. 45 x 58.5 x 30 mm

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>	Regulated control current	Specifications
SO941460	12A	12-280VAC	600V	3-32VDC	128A <sup>2</sup> s	yes	Control current <13mA
SO942460	25A	12-280VAC	600V	3-32VDC	600A <sup>2</sup> s	yes	Control current <13mA
SO942470	25A	12-280VAC	600V	3-32VDC	600A <sup>2</sup> s	yes	VDR
SO942860	25A	12-280VAC	600V	15-32VAC/10-30VDC	600A <sup>2</sup> s	no	with simplified input
SO942960	25A	12-280VAC	600V	185-265VAC/DC	600A <sup>2</sup> s	no	with simplified input
SO943460	40A	12-280VAC	600V	3-32VDC	1 250A <sup>2</sup> s	yes	Control current <13mA
SO945460	60A	12-280VAC	600V	3-32VDC	2 800A <sup>2</sup> s	yes	Control current <13mA
SO96346H	35A	24-600VAC	1200V	3.5-32VDC	882A <sup>2</sup> s	yes	Control current <13mA
SO96386H	35A	24-600VAC	1200V	15-32VAC	882A <sup>2</sup> s	yes	Control current <13mA
SO963460	40A	24-600VAC	1200V	3.5-32VDC	1 250A <sup>2</sup> s	yes	Control current <13mA
SO96546H	50A	24-600VAC	1200V	3.5-32VDC	1 680A <sup>2</sup> s	yes	Control current <13mA
SO96546T	50A	24-600VAC	1200V	3.5-32VDC	2 800A <sup>2</sup> s	yes	Thermal Pad mounted
SO965460	60A	24-600VAC	1200V	3.5-32VDC	2 800A <sup>2</sup> s	yes	Control current <13mA
SO967460	90A	24-600VAC	1200V	3.5-32VDC	7 200A <sup>2</sup> s	yes	Control current <13mA
SO967860	90A	24-600VAC	1200V	15-32VAC	7 200A <sup>2</sup> s	no	with simplified input
SO967960	90A	24-600VAC	1200V	20-265VAC/DC	7 200A <sup>2</sup> s	yes	Control current <13mA
SO968470	95A	24-510VAC	950V	3.5-32VDC	11 250A <sup>2</sup> s	yes	Control current <13mA
SO96846T	95A	24-600VAC	1200V	3.5-32VDC	11 250A <sup>2</sup> s	yes	Thermal Pad mounted

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## SOL flatpac®

→ Low profile (h=16,3mm)

Flatpac® SSRs are mainly designed for applications where a PCB is used on the input, possibly on the output side. Wiring will be facilitated as this relay also allows input or output cables to go any direction.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>
SOL942460	25A	12-280VAC	600V	3-32VDC	600A <sup>2</sup> s
SOL942960	25A	12-280VAC	600V	185-265VAC/DC	600A <sup>2</sup> s
SOL965460	50A	24-600VAC	1200V	3.5-32VDC	2 800A <sup>2</sup> s

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• Dim. 45 x 58.5 x 16.3 mm

## SON

NEW

→ EMC optimised  
(low electromagnetic emission – low RFI)

These relays are designed for use in applications where low electromagnetic emission is essential : household and electrical appliances, information technology and medical equipments. In compliance with EN 50081-1 (Generic Emission Standards for Residential).

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I <sub>t</sub>
SON845040	50A	40-260VAC	600V	6-32VDC	2 800A <sup>2</sup> s
SON865040	50A	50-480VAC	1200V	6-32VDC	2 800A <sup>2</sup> s
SON867040	75A	50-480VAC	1200V	6-32VDC	7 200A <sup>2</sup> s

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• Dim. 45 x 58.5 x 30 mm