

# SOLID STATE CONTACTORS

## celpac® Range

- 22.5 and 45mm Pitch.
  - Large control range : 3-32VDC with an input current < 10mA whatever the rating voltage and temperature range.
  - AC control models available.
  - Green LED visualization on the input.
  - Very high immunity : Voltage protection on output and input : 4kV according to IEC61000-4-4 & 5.
  - Models SILD845, SIL855 and SIM855 switch ON in case of overvoltage : autoprotection on AC-51 loads only.
  - TMS<sup>2</sup> Technology with very long lifetime.
  - I<sup>2</sup>t value between 312 and 5000A<sup>2</sup>s hence protection against short-circuit on the load possible by Miniature.
  - Circuit Breakers (MCB).
  - Low leakage current (<1mA) and low zero cross voltage (<10V) for zero cross SSR. Turn on time for random models.
  - IP20 housing.
  - Use screw clamp terminals.
  - No tools needed for mounting and dismounting on DIN rail or direct mounting on panel.
  - SILD model with diagnostic: status of the SSR and the load. Without external power supply.
- Normally closed status output. Status visualization by LED. Status output can be chained. This range is patented.



Single Phase SIL  
22.5 mm



Single Phase SIM  
45 mm



Power SSR with  
diagnostic SILD  
(see page 155)



Two Phase SIB  
(see page 153)



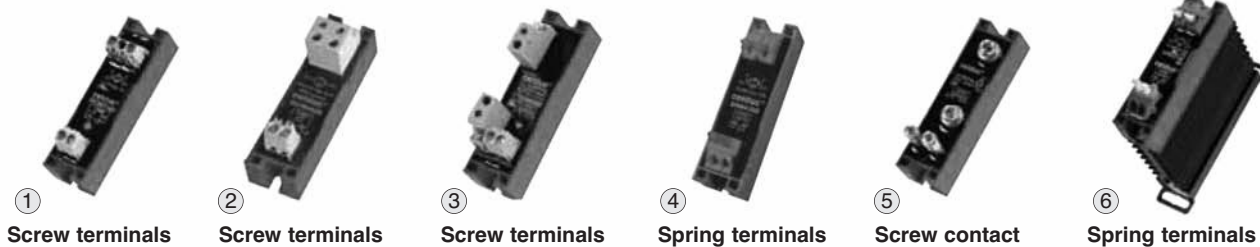
Three Phase SIT  
(see page 154)

Product Reference	Switching Current	Switching Voltage	Peak Voltage	Control Voltage	Control Current	I <sup>2</sup> t	Specifications	Dimensions mm
SIL765170	32A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	1500A <sup>2</sup> s	random	22,5 x 80 x 116
SIL842170	25A	12-275VAC	600V	3-32VDC	Ic<10mA	312A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL842770	25A	12-275VAC	600V	17-60VAC/DC	Ic<10mA	312A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL842970	25A	12-275VAC	600V	150-240VAC/DC	Ic<10mA	312A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL863170	25A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	1250A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL865170	32A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL865770	32A	24-510VAC	1200V	17-60VAC/DC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL865970	32A	24-510VAC	1200V	150-240VAC/DC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIL867170	35A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	5000A <sup>2</sup> s	zero-cross	22,5 x 80 x 116
SIM765170	40A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	1500A <sup>2</sup> s	random	45 x 80 x 116
SIM865170	40A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	45 x 80 x 116
SIM865770	40A	24-510VAC	1200V	17-60VAC/DC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	45 x 80 x 116
SIM865970	40A	24-510VAC	1200V	150-240VAC/DC	Ic<10mA	1500A <sup>2</sup> s	zero-cross	45 x 80 x 116
SIM867170	45A	24-510VAC	1200V	3,5-32VDC	Ic<10mA	5000A <sup>2</sup> s	zero-cross	45 x 80 x 116

We also have a celpac® range with status of the SSR and the load and solid state contactors celpac® two and three phase.

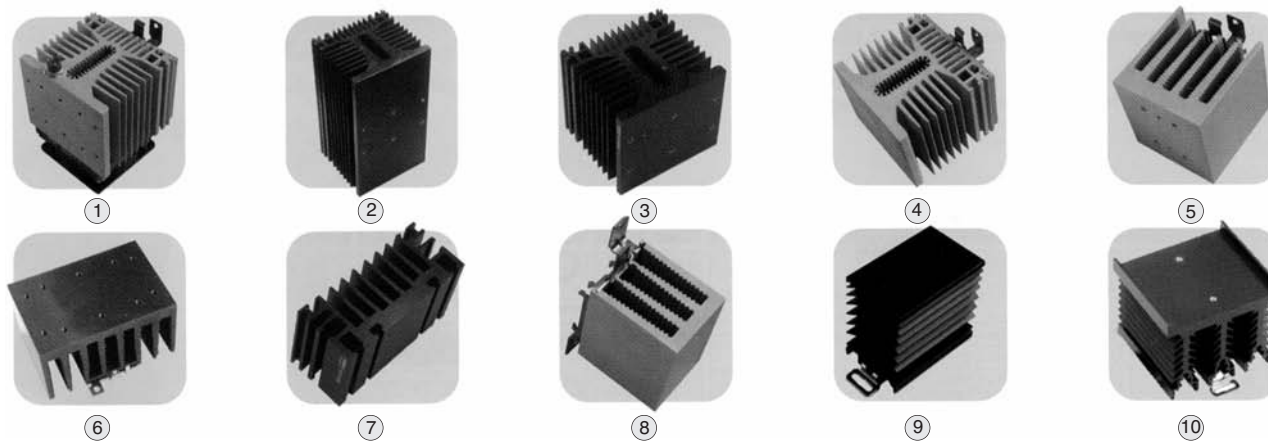
# SOLID STATE CONTACTORS

## SIC / SIR / SIP Range



Product Reference	Switching Current	Switching Current	Thyristor Rating	I <sup>2</sup> t	Control Current	Commutation	Dimensions mm	Fig n°
Should be mounted on heatsink								
SIC841160	12-280VAC	12A	12A	72A <sup>2</sup> s	4-30VDC	zero-cross	22,4 x 80 x 31	1
SIC842160	12-280VAC	25A	25A	288A <sup>2</sup> s	4-30VDC	zero-cross	22,4 x 80 x 31	1
SIC862500	24-600VAC	25A	25A	312A <sup>2</sup> s	8-30VDC	zero-cross	22,4 x 80 x 37	2
SIC865560	24-600VAC	32A	50A	1500A <sup>2</sup> s	8-30VDC	zero-cross	22,4 x 80 x 37	3
SIR841500	12-280VAC	12A	12A	72A <sup>2</sup> s	7-30VDC	zero-cross	22,4 x 80 x 33	4
SIR842500	12-280VAC	16A	25A	310A <sup>2</sup> s	7-30VDC	zero-cross	22,4 x 80 x 33	4
SIP787100	24-690VAC	90A	90A	5000A <sup>2</sup> s	4-30VDC	random	22,4 x 80 x 29,4	5
SIP867100	24-690VAC	75A	75A	5000A <sup>2</sup> s	5-30VDC	zero-cross	22,4 x 80 x 29,4	5
Ready to use								
SIR85216WJ	12-440VAC	16A	20A	312A <sup>2</sup> s	4-30VDC	zero-cross	22,5 x 80 x 99	6

# HEATSINK & ACCESSORIES



The Rth values are given for a temperature of 50°C in calm air. Other dimensions available on request.

Product Reference	Thermal Characteristics	Specifications	Dimensions mm	Relay Type	Fig n°
WF 031100	0,3K/W	ventiled for DIN rail or screw	110x120x145	SO, SC, SV, SG, SGT, SVT	1
WF 050000	0,55K/W	DIN rail adaptor as option	110x100x200	SO, SC, SV, SG, SGT, SVT	2
WF 070000	0,75K/W	DIN rail adaptor as option	110x100x100	SO, SC, SV, SG, SGT, SVT	3
WF 115100	0,9K/W	for DIN rail or screw	110x100x90	SO, SC, SV, SG, SGT, SVT	4
WF 131100	1,1K/W	for DIN rail or screw	83x90x90	SO, SC, SV	5
WF 121000	1,2K/W	for DIN rail or screw	100x40x100	SO, SC, SV, SG, SGT, SVT	6
WF 210000	2,1K/W	DIN rail adaptor as option	96x41x55	SO, SC, SV	7
WF 262100	2,2K/W	for DIN rail or screw	48x60x72	SO, SC, SV	8
WF 151200	2,2K/W	for DIN rail or screw	45x73x80	SO, SC, SV	9
WF 108110	1,1K/W	for DIN rail or screw	89,8x81x98,02	SO, SC, SV, SO	10