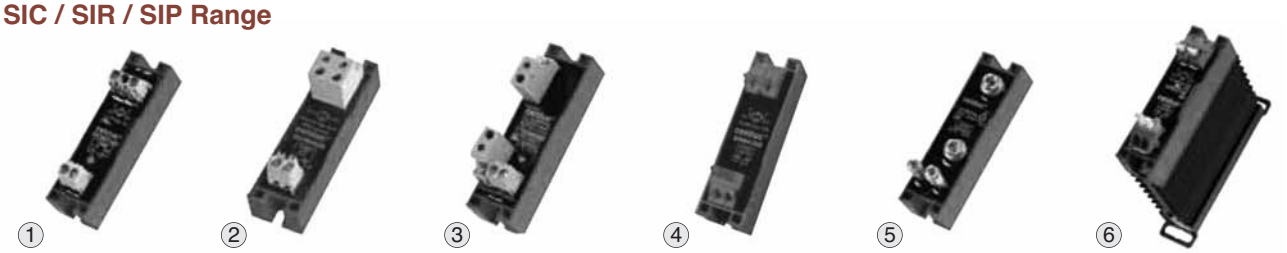
SOLID STATE CONTACTORS

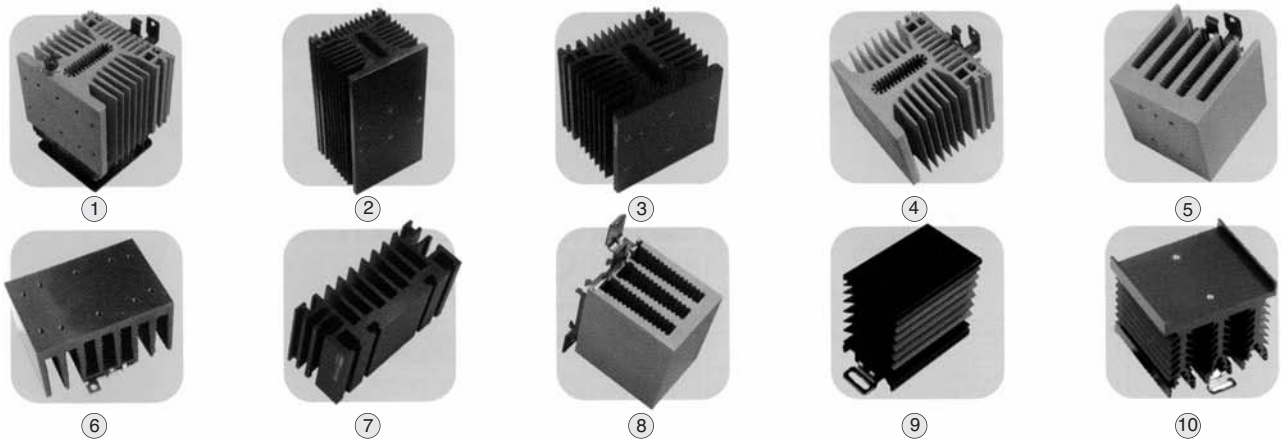
SIC / SIR / SIP Range



① Screw terminals ② Screw terminals ③ Screw terminals ④ Spring terminals ⑤ Screw contact ⑥ Spring terminals

Product Reference	Switching Current	Switching Current	Thyristor Rating	I²t	Control Current	Commutation	Dimensions mm	Fig n°
Should be mounted on heatsink								
SIC841160	12-280VAC	12A	12A	72A²s	4-30VDC	zero-cross	22,4 x 80 x 31	1
SIC842160	12-280VAC	25A	25A	288A²s	4-30VDC	zero-cross	22,4 x 80 x 31	1
SIC862500	24-600VAC	25A	25A	312A²s	8-30VDC	zero-cross	22,4 x 80 x 37	2
SIC865560	24-600VAC	32A	50A	1500A²s	8-30VDC	zero-cross	22,4 x 80 x 37	3
SIR841500	12-280VAC	12A	12A	72A²s	7-30VDC	zero-cross	22,4 x 80 x 33	4
SIR842500	12-280VAC	16A	25A	310A²s	7-30VDC	zero-cross	22,4 x 80 x 33	4
SIP787100	24-690VAC	90A	90A	5000A²s	4-30VDC	random	22,4 x 80 x 29,4	5
SIP867100	24-690VAC	75A	75A	5000A²s	5-30VDC	zero-cross	22,4 x 80 x 29,4	5
Ready to use								
SIR85216WJ	12-440VAC	16A	20A	312A²s	4-30VDC	zero-cross	22,5 x 80 x 99	6

HEATSINK & ACCESSORIES



① ② ③ ④ ⑤ ⑥ ⑦ ⑧ ⑨ ⑩

The Rth values are given for a temperature of 50ºC 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

HEATSINK & ACCESSORIES

Accessories

Protection Covers

1K199000	on SGT / SG9 / SMC relays
1K460000	on SC relays (expect SCB et SC 125A)
1K470000	assembling on all SC relays

Kits

1LK00100	mounting on SC-SF-SV8 / heatsink or SC-SV8 / 1LD 12020
1LK00200	mounting on SC-SF-SV9 / heatsink or 1LD00500
1LK00300	mounting on heatsinks / 1LD00400 or SC-SV8 / 1LD00000
1LK00500	mounting of 1 flap on SO9 relays output, flap included
1LK00600	mounting of 2 flaps on SO9 relays output, flap included
1LK00700	high current terminal set (wiring cross section from 25 to 50mm^2)

Relay / Heatsink Thermal Seals

5TH15000	Thermal grease for 30 relays SG / SVT ou 60 relays SC / SV8
5TH21000	Thermal precut film for SC / SV
5TH23000	Thermal pads

Symmetrical DIN rail Adaptators

1LD00400	DIN rail adaptator for WF21/07/05
1LD00500	DIN rail adaptator for SG / SVT / SV969300
1LD12020	DIN rail adaptator for SC / SV8 / SO montage vertical

Mouting + Heatsink + DIN Adaptator Option

1LWD1202	mounting of SC/SV/SO sur 1LD12020 + 1LD12020

Mounting Option Only If Quantity >10 (Srew Kit Included)

1LW00000	mounting of relays on heatsink
1LWD0000	mounting of heatsink on DIN rail adaptator

Applications Notes

Application notes on request : a certain number of application notes are available to celduc® customers

- Principle of solid state relays.
- Life expectancy of solid state relays : TMS^2 technology.
- Short circuit protection of solid state relays : fuses and circuit breakers.
- Application of solid state relays.
- Solid state relays on resistive loads (heating application).
- Three phase motor.
- Transformer control.
- Incandescent lamp control.
- Discharge lamp control.
- Refrigerated unit control.
- Categories of use of solid state relays.
- Solid state relays in emergency power supplies (UPS).
- Solid state relays on capacitive loads : power factor corrector (PFC) application.
- SCB relays in injection presses.
- Application of SKL et SKH relays.
- Softstart and reversing relays.
- Softstart relays in transformer control.
- Softstart relays in incandescent and infrared lamp control.
- Application of three phase diagnostic.