

celpac[®]

2G

Solid State Relays & Contactors



celduc[®] relais



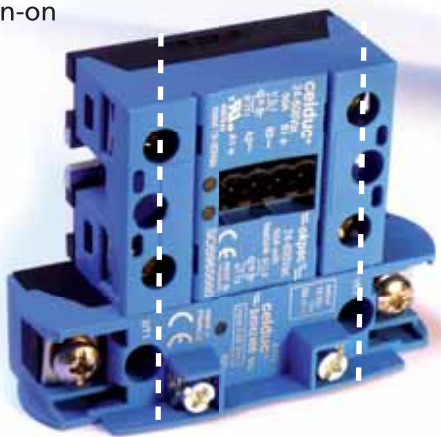
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Our range of Solid State & Contactors

The requirement for enhanced design, ease of installation, optimum life and the most competitive price is delivered by the new generation of celpac products.

Performance & reliability :

- Fixing screws compatible with all hockey puck style relays (celduc SO and SC range)
- Maximum voltage up to 1600V (690VRMS), 600VAC and 1200VAC as standard
- Thyristor rating up to 95A (IRMS = 96A @ 100°C)
- Large input range : 3-32VDC with regulated current models
- AC input control available
- Input status yellow LED
- Over-voltage protection on input
- New generation of TMS² technology for thyristors for a longer life expectancy
- Quick and easy connections
- Designed according to European standards EN60947-4-3 (IEC947-4-3) and EN60950 (VDE0805 reinforced insulation) -UL-cUL
- IP20 protection with removable flaps (SU range) or cover (SA range)
- Other protection devices available as an option : RC snubber, VDR, self turn-on



Fixation screw compatible with hockey puck SSRs

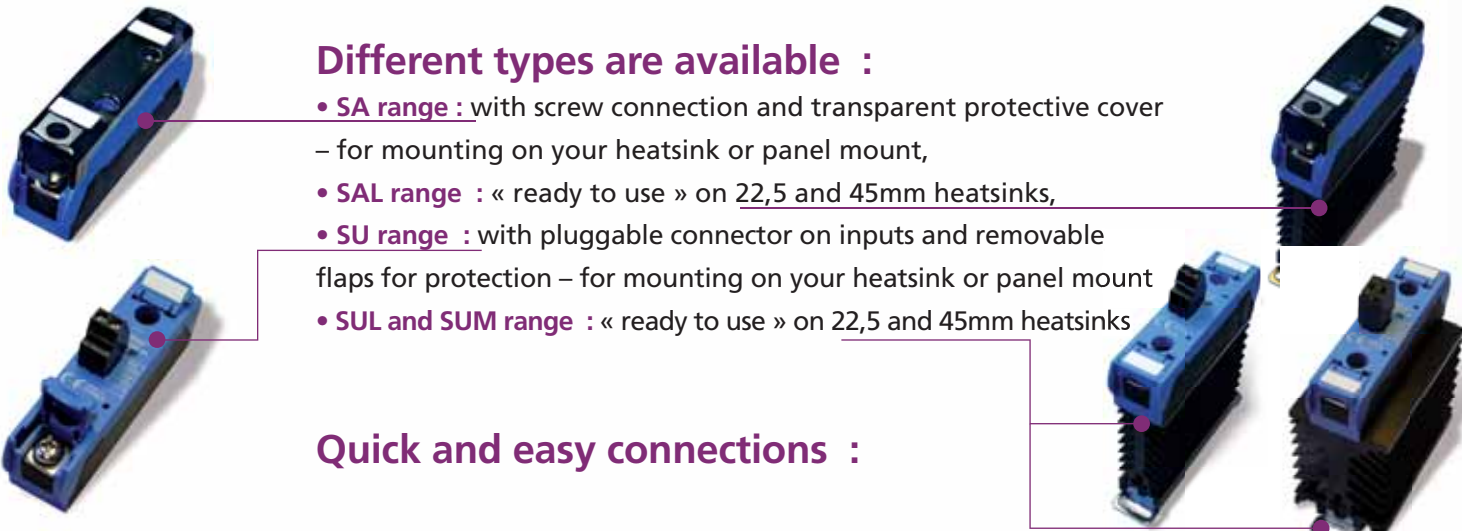
Price-effective and compact solution :

- The 22,5 mm pitch of our Solid State contactors reduces space to the minimum
- Reduced assembling time, easy cabling
- Reduced maintenance thanks to a very long life expectancy
- One single screw driver for input and output

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A cost-effective, reliable and compact solution !



Different types are available :

- **SA range** : with screw connection and transparent protective cover – for mounting on your heatsink or panel mount,
- **SAL range** : « ready to use » on 22,5 and 45mm heatsinks,
- **SU range** : with pluggable connector on inputs and removable flaps for protection – for mounting on your heatsink or panel mount
- **SUL and SUM range** : « ready to use » on 22,5 and 45mm heatsinks

Quick and easy connections :

	SA range	SU range
Power connections		
Input connections		

Standard characteristics

	SAxx1xx SUxx1xx	SAxx2xx SUxx2xx	SAxx3xxx SUxx3xxx	SAxx5xxx SUxx5xxx	SAxx7xxx SUxx7xxx
	SALxx1xxx SULxx1xxx	SALxx2xxx SULxx2xxx	SALxx3xxx SULxx3xxx	SALxx5xxx SULxx5xxx	SALxx7xxx SULxx7xxx
Nominal current	12A	25A	35A	50A	75A
Itsm (10ms) min	120	250A	320	530	1100
I²t (A²s) < 10ms (typical)	72	340	512	1404	6000
Operating temperature	-40 /+80°C	-40 /+80°C	-40 /+80°C	-40 /+80°C	-40 /+80°C
Storage temperature	-40/+125°C	-40/+125°C	-40/+125°C	-40/+125°C	-40/+125°C
Input / Output insulation and Output / Baseplate	4000VRMS	4000VRMS	4000VRMS	4000VRMS	4000VRMS



SU7, SU8 and SU9 range :

- SU7 : Typical applications : motors AC-53 and inductive loads. Also use in phase angle control systems
- SU8 : Designed for most types of loads.
- SU9 : Typical applications : resistive loads AC-51.

Reference	Output voltage	Thyristor rating	V peak (V)	Control voltage	Commutation	Visualization & protection
SU765070	24-510VAC	50A	1200V	3,5-32VDC	Random	LED
SU842070	12-275VAC	25A	600V	3-32VDC	Zero-cross	LED, VDR
SU842770	12-275VAC	25A	600V	17-30VAC		
SU842970	12-275VAC	25A	600V	180-240VAC		
SU865070	24-510VAC	50A	1200V	3,5-32VDC		
SU865970	24-510VAC	50A	1200V	180-240VAC	Zero-cross	LED
SU867070	24-510VAC	75A	1200V	3,5-32VDC		
SU942460	12-280VAC	25A	600V	3-32VDC		
SU963460	24-600VAC	35A	1200V	3,5-32VDC		
SU965460	24-600VAC	50A	1200V	3,5-32VDC	Zero-cross	LED
SU967460	24-600VAC	75A	1200V	3,5-32VDC		



SA8 and SA9 range :

- SA8 : Designed for most types of loads
- SA9 : Typical applications : resistive loads AC-51.

Reference	Output voltage	Thyristor rating	V peak (V)	Control voltage	Commutation	Visualization & protection
SA842070	12-275VAC	25A	600V	3-32VDC	Zero-cross	LED, VDR
SA941460	12-280VAC	12A	600V	3-32VDC		LED
SA942460	12-280VAC	25A	600V	3-32VDC		
SA943460	12-280VAC	35A	600V	3-32VDC		
SA945460	12-280VAC	50A	600V	3-32VDC	Zero-cross	LED
SA963460	24-600VAC	35A	1200V	3,5-32VDC		
SA965460	24-600VAC	50A	1200V	3,5-32VDC		

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SUL8, SUL9 and SUM8 :

SUL8 and SUM8 : Designed for most types of loads.
SUL9 : Typical applications : resistive loads AC-51.



Reference	Output voltage	Thyristor rating	Max. switching current at 25°C	V peak (V)	Control voltage	Commutation	Visualisation & protection
SUL842070	12-275VAC	25A	23A	600V	3-32VDC	Zero-cross	LED, VDR
SUL842970	12-275VAC	25A	23A	600V	180-240VAC		
SUL865070	24-510VAC	50A	32A	1200V	3,5-32VDC		
SUL865970	24-510VAC	50A	32A	1200V	180-240VAC		
SUL867070	24-510VAC	75A	35A	1200V	3,5-32VDC		
SUM865070	24-510VAC	50A	45A	1200V	3,5-32VDC		
SUL942460	12-280VAC	25A	23A	600V	3-32VDC		LED
SUL963460	24-600VAC	35A	30A	1200V	3,5-32VDC		
SUL967460	24-600VAC	75A	35A	1200V	3,5-32VDC		



SAL9 range

Typical applications : resistive loads AC-51.

Reference	Output voltage	Thyristor rating	Max. switching current at 25°C	V peak (V)	Control voltage	Commutation	Visualisation & protection
SAL941460	12-280VAC	12A	12A	600V	3-32VDC	Zero-cross	LED
SAL942460	12-280VAC	25A	23A	600V	3-32VDC		
SAL965460	24-600VAC	50A	32A	1200V	3,5-32VDC		



Flaps, covers and connectors have to be ordered separately if necessary.

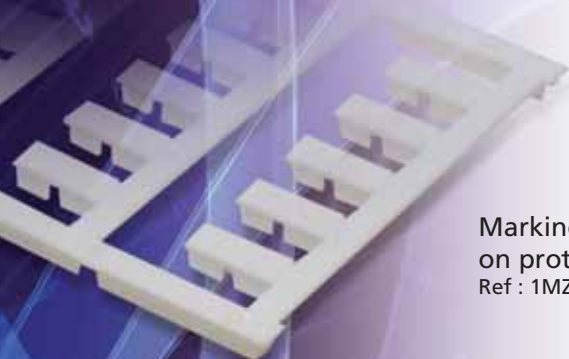
Accessories for celpac[®]



Removable protection flaps
(for SA and SU ranges)
Standard for SU range
Ref : 1K523000



Protection cover
(standard for SA range)
Ref : 1K522000



Marking labels to be mounted
on protection flaps or cover.
Ref : 1MZ09000



Removable connectors



A large range of heatsinks



Our distributor



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