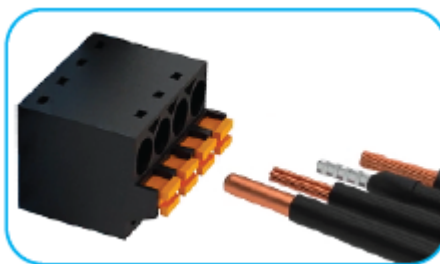


Solid State Relays with push-in spring terminals



In industrial environments where operational efficiency and equipment availability are critical, reducing installation and maintenance time has become a key factor in optimizing productivity. **celduc® relais** Solid State Relays with Push-in terminals have been developed to meet these evolving requirements, providing a connection solution tailored to the needs of modern industrial equipment.



Solid State Relays with push-in terminals

Fast wiring, even in tight spaces !

Easy to use and requiring no special tools, this connection technology is perfect for compact installations where you need fast and safe wiring.



STRONG

Push-in connections are strong and reliable.



FLEXIBLE

Push-in connections are suitable for various types of conductors : solid conductors, stranded conductors, and for fine-stranded conductors with crimped-on ferrules.



FAST

- Quick and tool-free conductor connection using direct plug-in technology.
- Replacing a damaged relay is quick and easy.



SAFE

Push-in connections avoid downtime, reduce maintenance, and lower installation costs.

- No heat risk
- No risk of breaking the terminals on the product due to excessive tightening
- Retightening of screws is no longer necessary and operation in vibrating environments is no longer a problem.
- Touchproof protection without having to add cover.



**Single phase
Solid State Relays
SOR**



**Two-phase
Solid State Relays
SOBR**



**Three-phase
Solid State Relays
SGTR**

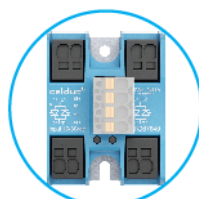


**Four-Legs
Solid State Relays
SMQR**

Power wiring



2 x doubled 6mm²
or AWG10



4 x doubled 6mm²
or AWG10



6 x doubled 6mm²
or AWG10

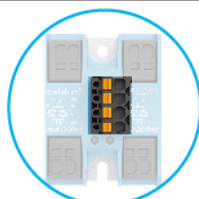


6 x doubled 6mm²
or AWG10

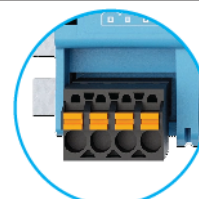
Control wiring



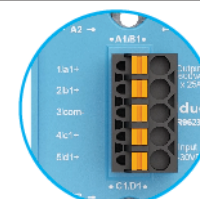
2 x doubled 2.5mm²
or AWG14



4 x poles 2.5mm²
or AWG14



4 x poles 2.5mm²
or AWG14



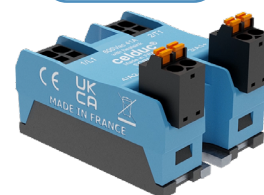
5 x poles 2.5mm²
or AWG14

1- Single phase models



The SOR range of single-phase solid state relays with Push-In terminal connection is available in several versions dedicated to AC-1 resistive loads.

- Current limiter
- Green control status LED
- Voltage protection on input (transil)
- Connection on the power side : 2 x doubled 6mm² or AWG10
- Connection on the control side : 2 x doubled 2.5mm² or AWG14

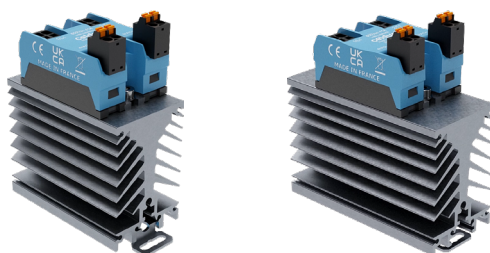


• Dim. 45 x 59 x 41.2 mm

Product reference	Thyristor rating	Max. switching current at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protec.
SOR943440-HE	35A	35A	12-280VAC	600V	3-32VDC	882A ² s	TVS
SOR965440-HE	50A	41A	24-660VAC	1200V	3.5-32VDC	1680A ² s	TVS
SOR967440	90A	41A	24-660VAC	1200V	3.5-32VDC	7200A ² s	TVS

► «Ready to use» models with integrated heatsink :

Product reference	Thyristor rating	Max. switching current at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protec.
SOR943440-HE-WF151	35A	28A	12-280VAC	600V	3-32VDC	882A ² s	TVS
SOR965440-HE-WF114	50A	34A	24-660VAC	1200V	3.5-32VDC	1680A ² s	TVS

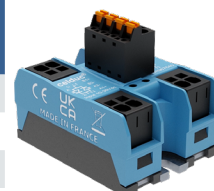


2- Two-phase models



The SOBR range of two-phase solid state relays with Push-In terminals is designed to be used with AC-1 resistive loads.

- 2 x Green input status LEDs
- Connection on the power side : Double "push-in" type spring terminals (Max 6mm² or 10 AWG)
- Connection on the control side : Pluggable "push-in" type spring terminals (Max 2.5mm² or 14 AWG)



• Dim. 45 x 59 x 48.1 mm

Product reference	Thyristor rating	Max. switching current at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protec.
SOBR943640-HE	2x35A	2x35A	12-280VAC	600V	10-30VDC	882A ² s	TVS
SOBR965640-HE	2x50A	2x41A	24-600VAC	1200V	10-30VDC	1680A ² s	TVS
SOBR967640	2x75A	2x41A	24-600VAC	1200V	10-30VDC	7200A ² s	TVS

► "Ready to use" model with integrated heatsink.

Product reference	Thyristor rating	Max. switching current at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protec.
SOBR965640-HE-WFF05	2x50A	2x41A	24-600VDC	1200V	10-30VDC	1680A ² s	TVS



3- Three-phase models

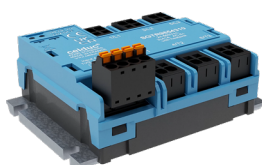
SGTR



The SGTR range of three-phase solid state relays with Push-In terminals is designed to be used with AC-1 (SGTR9) and AC-3 (SGTR8) loads.

- ▶ Green control status LED
- ▶ Voltage protection on input (transil)
- ▶ Overvoltage protection for AC-1 by self turn-ON of the thyristor (TVS diodes on gates) and for AC-3 by VDR
- ▶ Connection on the power side : 6 x doubled 6mm² or AWG10
- ▶ Connection on the control side : 4 x poles 2.5mm² or AWG14

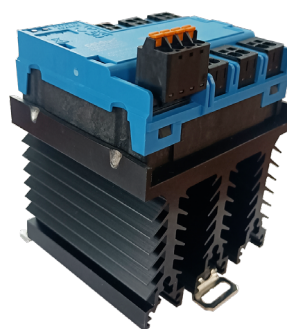
Product reference	Thyristor rating	Max. switching current AC-1 at 40°C	Max. switching current AC-3 at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protections
SGTR9854310	3x50A	3X41A	-	24-660VAC	1600V	4-30VDC	2 800A ² s	TVS
SGTR8690510	3X125A	3X41A	3X32A	24-520VAC	1600V	4-30VDC	22 000A ² s	VDR+RC



● Dim. 100 x 77 x 47.5 mm

▶ "Ready to use" model with integrated heatsink.

Product reference	Thyristor rating	Max. switching current AC-1 at 40°C	Max. switching current AC-3 at 40°C	Switching voltage	Peak voltage	Control voltage	I ² t	Protections
SGTR9854310-WF031	3x50A	3x41A	-	24-660VAC	1600V	4-30VDC	2 800A ² s	TVS
SGTR9874310-WF108	3x75A	3x22A	-	24-660VAC	1600V	4-30VDC	7 200A ² s	TVS



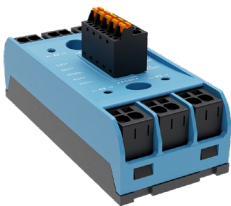
4- Four-leg models

SMQR

The SMQR range of four-leg solid state relays with Push-In terminals is designed to be used with AC-1. It is the bet choice to reduce the size of your control panel (compact 45 mm version).

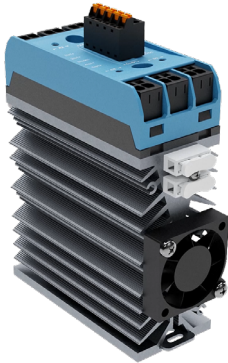
- ▶ Green control status LED
- ▶ Overvoltage protection by TVS diodes on gates
- ▶ Connection on the power side : 6 x doubled 6mm² or AWG10
- ▶ Connection on the control side : 5 x poles 2.5mm² or AWG14

Product reference	Thyristor rating	Max. switching current AC-1 at 40°C	Switching voltage	Peak voltage	Control voltage	I²t	LED	Protections
SMQR9623410	4x25A	4x25A	24-600VAC	1200V	10-30VDC	380A²s	oui	TVS



▶ «Ready to use» model with integrated heatsink.

Product reference	Thyristor rating	Max. switching current AC-1 at 40°C	Switching voltage	Peak voltage	Control voltage	I²t	LED	Protections
SMQR9623410-WFF05	4x25A	4x18A	24-600VAC	1200V	10-30VDC	380A²s	oui	TVS



Thank you for your attention
and interest



www.celduc-relais.com