Solid State Relays with push-in spring terminals



World leader in Solid-State power switching & control!



Solid State Relays with push-in spring terminals

Intuitive and requiring no special tools, this connection technology is perfect for compact installations where you need fast and safe cabling.



Advantages "Push-In" connections offer many of advantages:

STRONG

Push-in connections are strong and reliable.



FLEXIBLE

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

SAFE

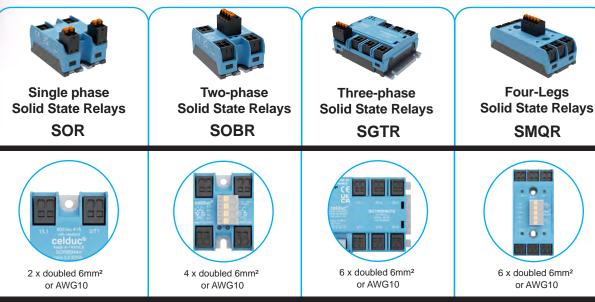
Push-in connections avoid downtime, maintenance, and reduce costs.

- No heat risk
- No risk of breaking the terminal inside the product.
- Retightening of screws is no longer necessary and operation in vibrating environments is no longer a problem.
- Touchproof protection without a cover.

Fast wiring, even in tight spaces!

FAST

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



Power wiring

Control

wiring



2 x doubled 2.5mm² or AWG14



4 x poles 2.5mm² or AWG14



4 x poles 2.5mm² or AWG14



or AWG10

Four-Legs

SMQR

5 x poles 2.5mm² or AWG14

Single phase Solid State Relays

SOR Series of single phase Solid State Relays with push-in terminals

- 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

Product reference	Max. Thyristor current	Switching current AC-1 (at 40°C) *	l²t	Switching voltage	Control voltage	Protections
SOR943440-HE	35A	35A	882A²s	12-280VAC	3-32VDC	TVS
SOR965440-HE	50A	41A	1680A²s	24-600VAC	3.5-32VDC	TVS
SOR967440	90A	41A	7200A²s	24-600VAC	3.5-32VDC	TVS



Dim. 45 x 59 x 41.2 mm

Single phase Solid State Relays

"Ready to use" models with integrated heatsink

Product reference	Switching current AC-1 (at 40°C)	l²t	Switching voltage	Control voltage	Protections
SOR943440-HE-WF151	28A	882A²s	12-280VAC	3-32VDC	TVS
SOR965440-HE-WF114	34A	1680A²s	24-600VAC	3.5-32VDC	TVS



SOBR

Two-phase Solid State Relays

We have extended our SOBR range of two-phase Solid State Relays with push-in terminals.

- 2 x Green input status LED
- \bullet Connection on the power side : 4 x doubled 6mm 2 or AWG10
- Connection on the control side : 4 x poles 2.5mm² or AWG14

Product reference	Max. Thyristor current	Switching current AC-1 (at 40°C) *	l²t	Switching voltage	Control voltage	Protections
SOBR943640-HE	2x35A	2x35A	882A²s	12-280VAC	10-30VDC	TVS
SOBR965640-HE	2x50A	2x41A	1680A²s	24-600VAC	10-30VDC	TVS
SOBR967640	2x75A	2x41A	7200A²s	24-600VAC	10-30VDC	TVS



- *These products should be mounted on heatsink in order to reach nominal current.
- Two-phase Solid State Relays
- "Ready to use" model with integrated heatsink

Product reference	Switching current AC-1 (at 40°C)	l²t	Switching voltage	Control voltage	Protections
SOBR965640-HE-WFF05	2x41A	1680A²s	24-600VAC	10-30VDC	TVS





^{*}These products should be mounted on heatsink in order to reach nominal current.

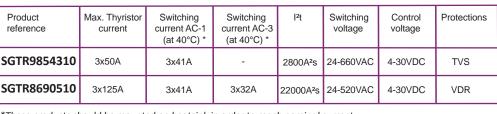
SGTR

• Three-phase Solid State Relays

Our 3-phase Solid State Relays are also available with push-in terminals. Versions for resistive loads AC-1: SGTR9XXXXXX Versions for all types of loads AC-3: SGTR8XXXXXX

- Green control status LED
- Voltage protection on input (transil)
- Overvoltage protection for AC-1 by self urn-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	Max. Thyristor current	Switching current AC-1 (at 40°C) *	Switching current AC-3 (at 40°C) *	l²t	Switching voltage	Control voltage	Protections
SGTR9854310	3x50A	3x41A	-	2800A²s	24-660VAC	4-30VDC	TVS
SGTR8690510	3x125A	3x41A	3x32A	22000A²s	24-520VAC	4-30VDC	VDR





Three-phase Solid State Relays

"Ready to use" model with integrated heatsink

Product reference	Switching current AC-1 (at 40°C)	²t	Switching voltage	Control voltage	Protections
SGTR9854310-WF031	3x41A	2800A²s	24-660VAC	4-30VDC	TVS



SMQR

Four-Legs Solid State Relays

Integrating 4 single-phase relays in a "sightpac" style housing, our SMQR product family is the best choice to reduce the size of your control panel (compact 45 mm version). Suitable for resisitive loads AC-1

- 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 poles 2.5mm² or AWG14

Product reference	Max. Thyristor current	Switching current AC-1 (at 40°C) *	l²t	Switching voltage	Control voltage	Protections
SMQR9623410	4x25A	4x25A	380A²s	24-600VAC	10-30VDC	TVS

^{*}These products should be mounted on heatsink in order to reach nominal current.



Dim. 45 x 100 x 48.1 mm

Four-Legs Solid State Relays "Ready to use" model with integrated heatsink

Product reference	Switching current AC-1 (at 40°C)	l²t	Switching voltage	Control voltage	Protections
SMQR9623410-WFF05	4x18A	380A²s	24-600VAC	10-30VDC	TVS





^{*}These products should be mounted on heatsink in order to reach nominal current.