

TWO-PHASE SOLID STATE RELAYS

Our two-phase range provides two solid state relays in a compact standard 45 mm enclosure. They are perfectly adapted to three phase applications with breaking of two phases only.



(Connectors to be ordered separately.)

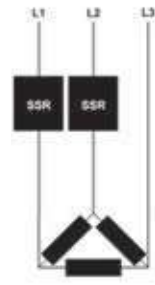
WIRING EXAMPLES



2 load control wiring
Single phase



Two-phase SSR SOB to control heaters
connected in star
(for balanced low voltage loads without
neutral connection)



Two-phase SSR SOB to control heaters
connected in delta
(for high voltage, balanced or
unbalanced loads)

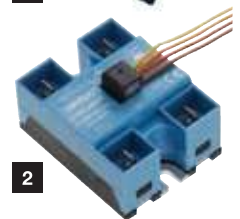
SOB5

→ zero-cross

- Power and control connections by FASTON terminals (Fig.1)
- Double input with connector CE100F ITWPANCON type or similar + Power connection by FASTON 6.3mm terminals with IP20 protection (Fig.2)

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I _t	Specifications	Fig.
SOB542460	2x25A	12-280VAC	600V	3-32VDC	265A ² s	zero-cross / 2 controls	1
SOB562460	2x25A	24-600VAC	1 200V	3.5-32VDC	265A ² s	zero-cross / 2 controls	1
SOB544330	2x40A	12-275VAC	600V	8-30VDC	882A ² s	zero-cross / 2 controls	2
SOB564330	2x40A	24-510VAC	1 200V	8-30VDC	882A ² s	zero-cross / 2 controls	2

These products should be mounted on heatsinks in order to reach nominal current.



SOB6

→ zero-cross

Double input with connector CE100F ITWPANCON type or similar.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I _t	Specifications	Fig.
SOB665300	2x50A	24-600VAC	1 200V	10-30VDC	1 680A ² s	2 controls	3

These products should be mounted on heatsinks in order to reach nominal current.



SOB7

→ Random or instant switching

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I _t	Specifications	Fig.
SOB763670	2x35A	24-510VAC	1 200V	8-30VDC	1 250A ² s	2 controls	4
SOB765670	2x50A	24-510VAC	1 200V	8-30VDC	2 500A ² s	2 controls	
SOB767670	2x75A	24-510VAC	1 200V	8-30VDC	7 200A ² s	2 controls	



• Dim. 45 x 58.5 x 27 mm

TWO-PHASE SOLID STATE RELAYS

SOB8

SOB8 : zero-cross – designed for most types of loads.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I ² t	Specifications	Fig.
SOB863860	2x35A	24-600VAC	1200V	17-30VAC/DC	882A ² s	2 controls	1
SOB865660	2x50A	24-600VAC	1200V	8-30VDC	2 500A ² s	2 controls	1
SOB867640	2x75A	24-510VAC	1200V	8-30VDC	7 200A ² s	2 controls / Transil	1



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SOB9

SOB9 : zero-cross – resistive loads AC-51.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I ² t	Specifications	Fig.
SOB942360	2x25A	12-280VAC	600V	10-30VDC	600A ² s	1 control	1
SOB942660	2x25A	12-280VAC	600V	10-30VDC	600A ² s	2 controls	1
SOB943360	2x35A	12-280VAC	600V	10-30VDC	1 250A ² s	1 control	1
SOB945360	2x50A	12-280VAC	600V	10-30VDC	2 800A ² s	1 control	1
SOB962060	2x25A	24-600VAC	600V	3,5-32VDC	380A ² s	2 controls	1
SOB963660	2x35A	24-600VAC	1200V	10-30VDC	1 250A ² s	2 controls	1
SOB965060	2x50A	24-600VAC	1200V	4-32VDC	1 680A ² s	2 controls	1
SOB965160	2x50A	24-600VAC	1200V	6-16VDC	1 680A ² s	1 control	1
SOB965660	2x50A	24-600VAC	1200V	10-30VDC	2 500A ² s	2 controls	1
SOB967660	2x75A	24-600VAC	1200V	10-30VDC	7 200A ² s	2 controls	1

• Dim. 45 x 58.5 x 27 mm

(Connectors to be ordered separately.)



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Product reference	Switching current AC-51 (40°C)	Switching voltage	Peak voltage	Control voltage	I ² t	Specifications	Fig.
SOB96366WF	2x15A	24-600VAC	1200V	10-30VDC	1250A ² s	2 controls Ready to use product mounted on heatsink	2

SOBR

NEW

SOBR range with "push-in" style spring power connectors.

Product reference	Thyristor rating	Switching voltage	Peak voltage	Control voltage	I ² t	Specifications
SOBR965560	2x24A	24-600VAC	1200V	10-30VDC	1 680A ² s	2 controls + 1 commun internal connection on input
SOBR965660	2x24A	24-600VAC	1200V	10-30VDC	1 680A ² s	2 controls



• Dim. 45 x 58.5 x 27 mm

ACCESSORIES FOR SOB → Connectors

Product reference	Specifications	Relay type	Fig.
1Y020915	2 pole screw connector	SOB7 / SOB8 / SOB9 - 1 control	1
1Y022715	2 pole screw connector 270°	SOB7 / SOB8 / SOB9 - 1 control	2
1Y040915	4 pole screw connector 90° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	3
1Y041660	4 pole screw connector 90° & 270° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	4
1Y041817	4 pole spring connector 180° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	5
1Y042217	4 pole screw connector 45° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	6
1Y042715	4 pole screw connector 270° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	7
1Y042716	4 pole spring connector 270° for SOB	SOB7 / SOB8 / SOB9 - 2 controls	8
1Y044604	4 pole spring connector 180°+ locking	SOB7 / SOB8 / SOB9 - 2 controls	

