

PRELIMINARY TECHNICAL INFORMATION

HIGHLIGHTS

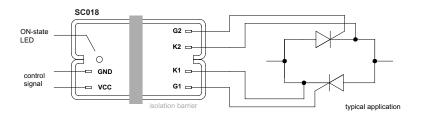
- -Zero crossing voltage network detection
- -For thyristor up to 1800V_{DRRM}
- -On-state control LED indication
- -Modular system.
- -Ready to use.



non-contractual photo

GENERAL DESCRIPTION

Designed for the construction of great power AC static relays, for voltages up to $700V_{AC}$. SC018 triggers 2 thyristors in antiparallel configuration (W1C) in the zero crossing of the network tension, which allows to obtain great advantages in the connection of loads (specially resistive).



ABSOLUTE MAXIMUM RATINGS

description	symbol	conditions & notes	min	max	units
continuous working AC voltage	V _{K1K2}	network freq. 42 to 63Hz	100	770	V _{AC}
maximum AC peak voltage	V _{K1K2 peak}	network freq. 42 to 65HZ		1800	V _{PEAK}
control trigger voltage	V _{cc}		6	30	V
control to output isolation	V _{ISO}	1min @ 50Hz		5000	V _{AC}

RECOMMENDED OPERATION CONDITIONS

description	symbol	conditions & notes	min	typ	max	units
continuous working AC voltage	$V_{_{\rm K1K2}}$	network freq. 42 to 63Hz	200		700	V_{AC}
control trigger voltage	V_{cc}			12		V
control current consumption	I _{cc}			25	30	mA

MECHANICAL SPECIFICATIONS

description	symbol		units
dimensions	HxBxT	92x40x30	mm
Weight	W	132	gr
control and power terminals	Fast-on 2,8 x 0,5 mm.		
module fixation		4 Holes Ø5,5 (compatible to standard modules with 80 mm. interaxis)	

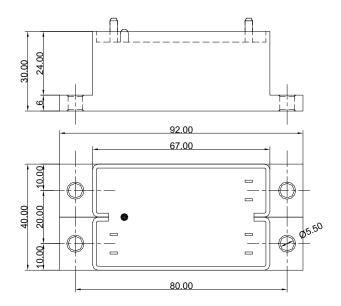
ENVIRONMENTAL SPECIFICATIONS

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description	
Protection grade	IP-00
Maximum humidity	50% Rh @ 35°C / 70% RH @ 20°C
Pollution grade	III



DIMENSIONS DRAWING

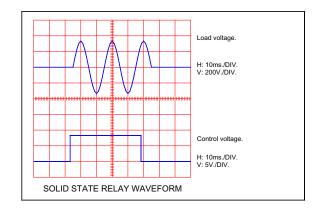


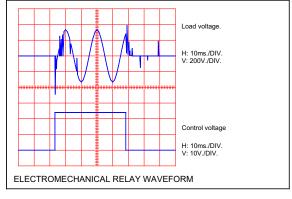
APPLICATION INFO

Using 2 or 3 modules it is possible to make three-phase applications with connection to 2 or 3 phases (W3.2C and W3C).

Its high reverse voltage (1800V) makes the SC018 suitable for the connection of the capacitors in equipments of reactive energy regulation (up to $400V_{\text{RMS}}$ network).

COMPARATIVE: SOLID STATE RELAY Vs ELECTROMECHANICAL RELAY





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