B

Semiconductor-Switch-Modules (AC)
MHSA

Technical Data

Control Circuit

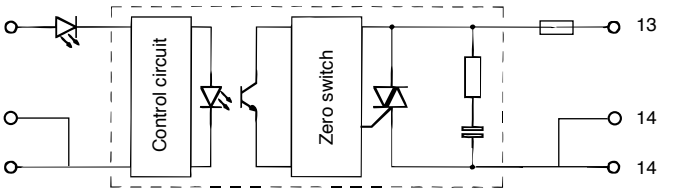
Control voltage:	VDC	4...30
Operating-/Release value:	VDC	≤5/>1
Control current:	mADC	<30
Control circuit resistance:	Ω	1000

Circuit

Switching current:	A_{eff}	2
Switching voltage:	V_{eff}	240
Switching voltage range:	V_{eff}	24–280
Max. periodic peak reverse volt.:	V_S	600
Frequency range:	H_2	47...63
Max. rated surge forward current, during one period 50Hz peak value permissible only occasionally:	As	100
Min. switching current (holding current):	mA_{eff}	50
Max. reverse volt.(leakage current):	mA_{eff}	4,5
Max. conducting-state volt. (peak value) at max. switching current:	Vs	1,6
Zero voltage:	Vs	±30
Critical rate of voltage rise du/dt:	V/µs	200
Critical rate of commutation volt. rise:	V/µs	5
Critical rate of current rise du/dt:	A/µs	20
I^2t, 10 ms:	A^2s	50
Operate delay:	ms	max.1 half cycle
Circuit fusing:	A	2

Ambient temperature:
-25° to 60°C/ -13° to 140°F
Terminals are at choice, see how to order.

Dimensions:
Height above the housing edge:
Example with terminal 970-E-DS (Code E): 30 mm / 1.20 in (total height plus 30 mm)
Length: 24 mm / 0.95 in
Width: 76 mm / 3.00 in



Features:

- High number of operations
- Long life span
- Switching on and off zero crossing
- Bounce-free switching since there are no moving parts
- Low control power
- Status indicator (LED) in the control circuit
- The circuit is protected by a fuse

Description

The semiconductor switch AC applies an AC voltage of 24 bis 280 V to a load, as the result of a control command, at a continuous current of maximum 2 A. The control circuit is electrically isolated from the circuit by means of an optocoupler. A Triac is used to switch the load and a zero-crossing switch permits trouble-free operation. The actual control and switching voltage must not be less than 4 VDC bzw. 24 VAC respectively for trouble-free operation.

Options

‰ Customer specified designs.

Order Table

Module -Type:	Kind of voltage and number of switches:	Switching Current (A):	Voltage Input (V):	Voltage Output (V):	Terminals Input:	Term. Output:	Housing:
MHS	A01	2	30	240	Type 970-DS with 2,5 mm2 → B Optional available: (G)	Type 970-DS 2,5 mm2 → B Optional available: (A,G)	Module Housing M-512 Z

M	H	S	A	0	1	-	2	-	3	0	2	4	0	-			Z

Type-Designation