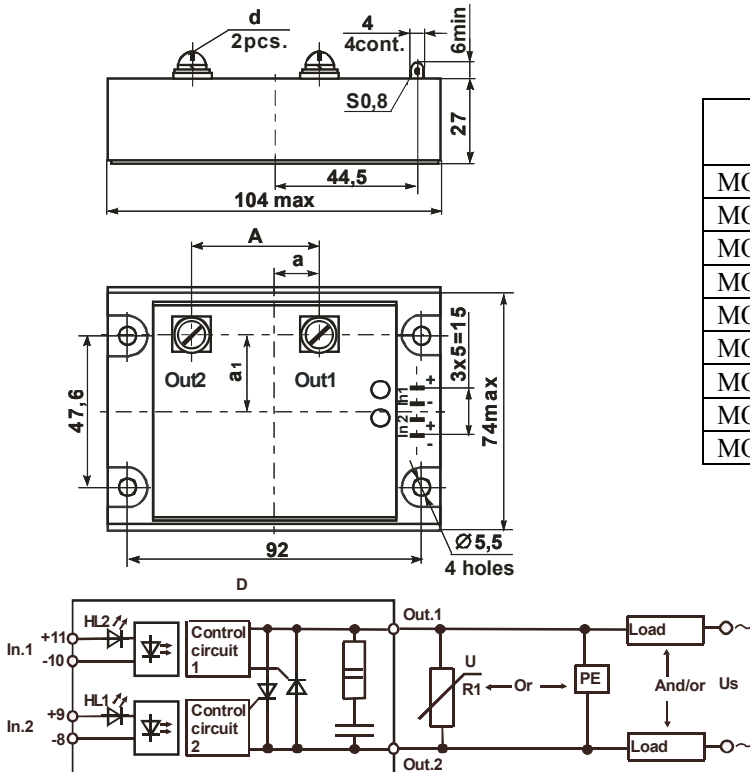


MO8D-(25, 40, 63, 80, 100, 125, 160, 200, 250)-16

TICKET

Thyristor module of two opposite connected thyristors with opto decoupling and isolated control is intended for switching of powerful AC loads in single-phase networks.

OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT



Product description	d, mm	A, mm	a, mm	a ₁ , mm
MO8D-25-16	screw M5	54	27	21
MO8D-40-16	screw M5	54	27	21
MO8D-63-16	screw M5	54	27	21
MO8D-80-16	screw M6	54	27	21
MO8D-100-16	screw M6	54	27	21
MO8D-125-16	screw M6	54	27	21
MO8D-160-16	screw M6	40	20	24
MO8D-200-16	pin M8	40	14.5	24
MO8D-250-16	pin M8	40	14.5	24

D – module

R1 – protective varistor of types CH2-1; CH2-2 with classification voltage:

$$U_{cl} = U_m^{rms} \cdot \sqrt{2} \cdot 1.1$$

$$U_{peak} > U_{cl} + 150 \text{ V}$$

Internal RC – circuit characteristics:

$$R = 10 \Omega, C = 0.1 \mu\text{F}$$

BASIC CHARACTERISTICS

T = 25 °C

Product name	Open state pulse voltage, U _t , V		Loss current on output, I _l , mA		On-state input current, I _{in} , mA			Isolation voltage at DC (peak value) U _{is} , V		Isolation resistance input-output R _{is. in-out} , MΩ	Isolation resistance output-radiator R _{is. out-rad} , (Ω)	Thermal resistance junction-radiator R _{th j-r*} , °C/W
	max	I, A	max	U, V	min	max	U _{in} , V	min	t, min			
MO8D-25-16	1.65	79	1	±1600	12	19	5	4000	1	100	10	1.00
MO8D-40-16		126										0.70
MO8D-63-16		198										0.60
MO8D-80-16		251										0.45
MO8D-100-16		314										0.30
MO8D-125-16		393										0.25
MO8D-160-16		503										0.18
MO8D-200-16		628										0.175
MO8D-250-16		785										0.169

* to thyristor

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Thyristor voltage (amplitude value), U_A , V	Opposite-parallel connected current, I_{rms} , A	Average current value through the thyristor, I_{avr}^* , A	On-state input voltage, $U_{in\ on}$, V		Off-state input voltage, $U_{in\ off}$, V		Pulse current on output I_{pul}^* , A	Root-mean-square current**, I , A	Switching voltage, U_{sw} , V		Rate of rise of output		Junction temperature, T_j^{***} , °C		
				min	max	min	max			min	max	min	max			voltage dU/dt , V/μs
	max	min	max	min	max	min	max	max		min	max			min	max	
MO8D-25-16	1600	25	17	5	30	- 3.5	0.8	320	10	40	50	1150	1000	150	-40	+125
MO8D-40-16		40	28					560		63						
MO8D-63-16		63	43					720		100						
MO8D-80-16		80	55					960		126						
MO8D-100-16		100	60					1250		94						
MO8D-125-16		125	95					1600		149						
MO8D-160-16		160	110					3200		250						
MO8D-200-16		200	135					5000		300						
MO8D-250-16		250	170					6000		390						

* to thyristor

** with opposite-parallel thyristors turn-on

*** the modules are designed for operating in the equipment with using of coolers supporting transition temperature in prescribed ranges

Precious metals are not contained

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