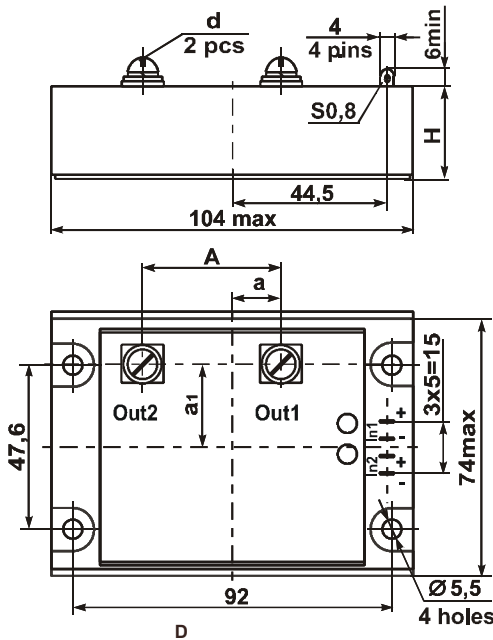


MO8D-(25, 40, 63, 80, 100, 125, 160, 200, 250)-12

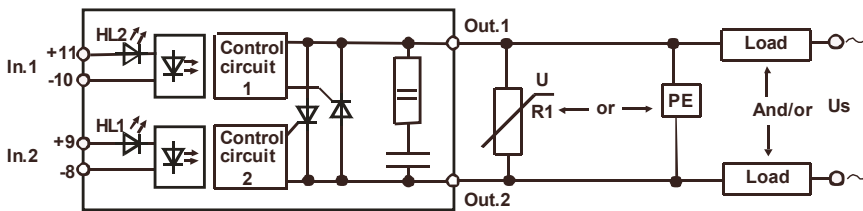
DATASHEET IN BRIEF

The optothyristor module of two opposite-connected thyristors with opto decoupling and separate control is intended for switching of power AC loads in single-phase networks.

OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT



Product description	d, mm	H, mm	A, mm	a, mm	a ₁ , mm
MO8D-25-12	screw M5	27	54	27	21
MO8D-40-12	screw M5	27	54	27	21
MO8D-63-12	screw M5	27	54	27	21
MO8D-80-12	screw M6	27	54	27	21
MO8D-100-12	screw M6	27	54	27	21
MO8D-125-12	screw M6	27	54	27	21
MO8D-160-12	screw M6	27	40	20	24
MO8D-200-12	bolt M8	29	40	14.5	24
MO8D-250-12	bolt M8	29	40	14.5	24



D – module

R1 – protective varistor of types FNR; JVR with classification voltage:

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

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

Internal RC – circuit parameters:

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

BASIC PARAMETERS

T = 25 °C

Product name	On-state pulse voltage, U _t , V		Loss current on output, I _t , mA		On-state input current, I _{in} , mA				Isolation voltage at DC (peak value) U _{isol} , V		Isolation resistance input-output R _{is, in-out} , MΩ	Isolation resistance output-radiator R _{is, out-rad} , (MΩ)	Thermal junction-radiator resistance R _{th j-r*} , °C/W
	max	I _t , A	max	U, V	min	U _{in} , V	max	U _{in} , V	min	t, minute			
MO8D-25-12	1.65	79	1	±1200	12	4	19	30	4000	1	100	10	1.00
MO8D-40-12		126											0.70
MO8D-63-12		198											0.60
MO8D-80-12		251											0.45
MO8D-100-12		314											0.30
MO8D-125-12		393											0.25
MO8D-160-12		503											0.18
MO8D-200-12		628											0.175
MO8D-250-12		785											0.169

* to thyristor

MAXIMUM PERMISSIBLE OPERATING MODES

Product name	Thyristor voltage (amplitude value), U_A , V	Current in inverse-parallel connection, I_{rms} , A	Average current value through 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	max	t_p , ms		min	max	voltage dU/dt , V/ μ s	current, dI/dt , A/ μ s	min	max
MO8D-25-12	1200	25	17	4	30	- 3.5	0.8	320	10	39	50	840	1000	150	-40	+125
MO8D-40-12		40	28					560		63						
MO8D-63-12		63	43					720		99						
MO8D-80-12		80	55					960		125						
MO8D-100-12		100	60					1250		157						
MO8D-125-12		125	95					1600		188						
MO8D-160-12		160	110					3200		251						
MO8D-200-12		200	135					5000		314						
MO8D-250-12		250	170					6000		393						

* to thyristor

** with inverse-parallel thyristors

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

Precious metals are not contained.

5 Naugorskoe shosse, Orel, 302020

Tel. +7(4862) 44-03-44, Fax +7(4862) 47-02-12, E-mail: mail@electrum-av.com