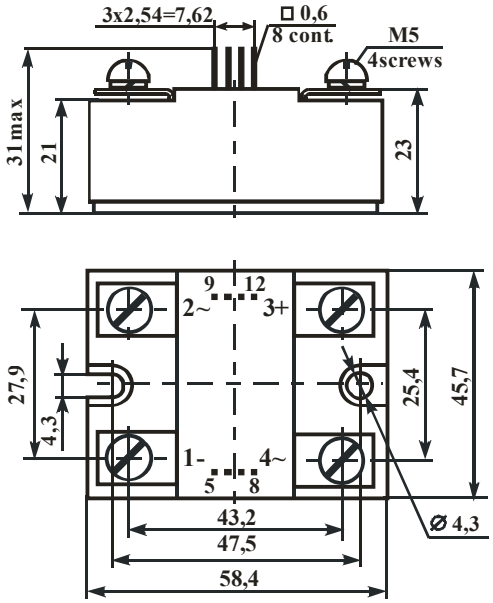
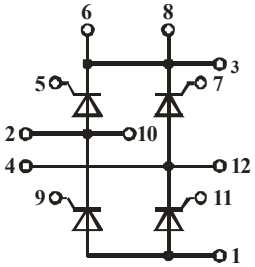
SINGLE-PHASE THYRISTOR BRIDGE MODULE
M22-63-12

DATASHEET IN BRIEF

Single-phase thyristor bridge module with control of four thyristors, connected to "positive" and "negative" outputs, is intended for rectifying (converting of AC into pulsating direct voltage).

OVERALL DRAWING AND ELECTRIC CIRCUIT





BASIC CHARACTERISTICS

T = 25 °C

Product name	Pulse voltage: in on-state U_{TM}, V		Current in thyristor off-state /rectifier reverse current, I_D / I_R, mA		Thyristor hold-on current, I_H, mA	Thyristor turn-on current, I_I, mA	Thyristor gate trigger DC voltage, U_{GT}, V	Thyristor gate trigger DC, I_{GT}, mA	Electric isolation strength at DC between radiator and outputs,		Thyristor non-trigger DC voltage, U_{GD}, V T_j = 125 °C	Thermal junction to radiator resistance Rth(j-c), °C/W	
									U_{ISOL}, V	t, minute		thyristor	diode
	max	I_O, A amplit. value	max	U_D/U_R, V	max	max	max	max	min		max	max	max
M22-63-12	1.65	$\frac{\pi}{2} \bullet I_O$, 10 ms, 50 Hz, sinus	1.5	± 1200	200	400	3.0	200	4000	1	0.25	1.0	1.3

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Pulse non-repetitive voltage in thyristor off-state U_{DSM}, V	Pulse repetitive voltage in thyristor off-state, U_{DRM}, V	Average rectified current, I_O, A Tr=75 °C	Linear voltage (rms), Ulin, V	Non-repetitive surge DC, I_{TSM} I_{FSM}, A		Maximum switching frequency, f_{com}, kHz	Critical rate of rise of reverse voltage, $(du_R / dt)cr$, V/µs	DC critical rate of rise, $(di_T / dt)cr$, A/µs	Junction temperature T_{VJ} *, °C	
						t, ms					
	max	max	max	max	max			max	max	min	max
M22-63 - 12	± 1300	± 1200	63	840	300	10	3	1000	150	- 40	+125
* the modules are designed for operating in the equipment with using of coolers that support transition temperature in the prescribed ranges											

Precious metals are not contained.

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