

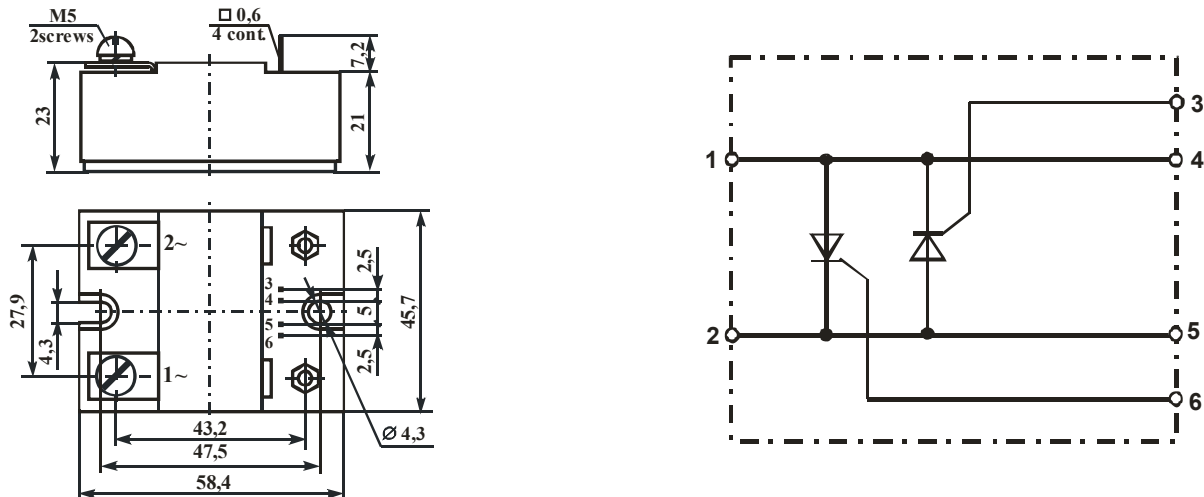
THYRISTOR-THYRISTOR MODULES

M8-25-16, M8-40-16, M8-63-16, M8-80-16, M8-100-16, M8-125-16

DATASHEET IN BRIEF

A thyristor module including two back-to-back thyristors with isolated control is intended for switching of power AC loads.

OVERALL DRAWING AND INTERNAL CONNECTION CIRCUIT



BASIC CHARACTERISTICS

T_a = 25 °C

Product name	Pulse on-state voltage, U _{TM} , V		Repetitive peak off-state current, I _{DRM} , mA		Repetitive peak reverse thyristor current, I _{RRM} , mA		Gate trigger direct voltage, U _{GT} , V	Gate trigger DC, I _{GT} , mA	Electric isolation strength at DC through radiator and power outputs, U _{ISOL} , V		Gate non-trigger direct voltage, U _{GD} , (V) T _j = 125 °C	Thermal junction-cooler resistance, R _{th(j-c)} , (°C/W)
	max	I _{OUT} , A amplit. value	max	U _{DRM} , V	max	U _{RRM} , V	max	max	max	t, minute	max	max
M8-25-16	1.65	π•I _{T(AV)} , 10 ms, 50 Hz, sinus	1.0	±1600	1.0	±1600	3.0	150	4000	1	0.25	1.00
M8-40-16												0.70
M8-63-16												0.60
M8-80-16												0.45
M8-100-16												0.30
M8-125-16								0.25				
								200				

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Repetitive thyristor pulse voltage: reverse / in off-state, U _{RRM} / U _{DRM} , V	Average on-state current with cooler I _{T(AV)} , A, T=85 °C	Commutation voltage, U _{com} , V	Surge on-state current, I _{TSM} , A		Critical speed of voltage build-up in off-state, (du _d / dt) _{cr} , V/μs	Critical speed of current build-up in on-state, (di _T / dt) _{cr} , A/μs	Junction temperature, T _{VJ} *, °C	
				max	t, ms			min	max
M8-25-16	±1600	25	840	200	10	1000	150	- 40	+125
M8-40-16				560					
M8-63-16				720					
M8-80-16				960					
M8-100-16				1350					
M8-125-16				2500					

* the modules are designed to operate in equipment with using of coolers that support junction temperature in the prescribed ranges

Precious metals are not contained.