

THREE-PHASE THYRISTOR BRIDGE MODULE

M24-63-12; M24-100-12; M24-160-12; M24-200-12; M24-250-12

DATASHEET IN BRIEF

A three-phase thyristor bridge module with control of six thyristors is intended for rectifying (converting of AC into pulsating direct voltage).

OVERALL DRAWING AND MODULE CIRCUIT

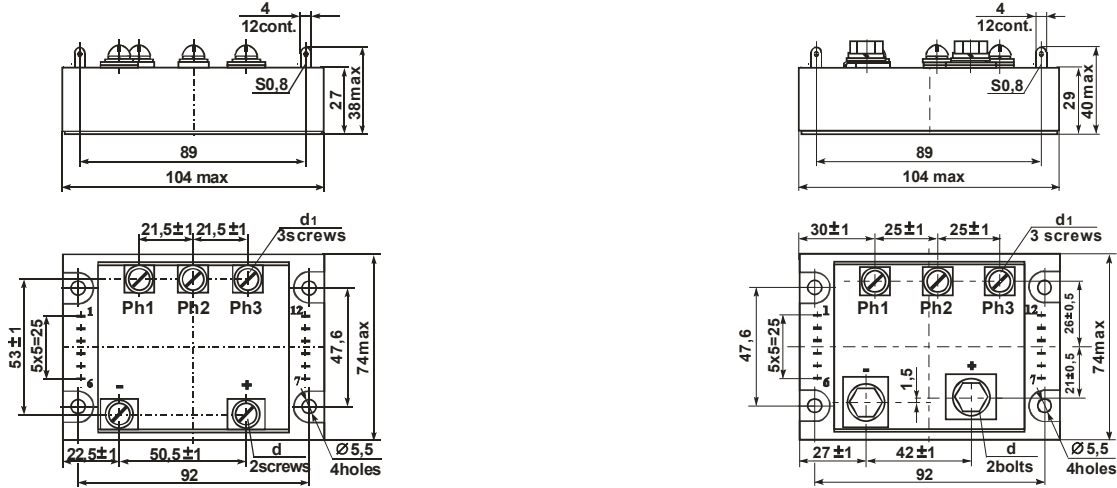
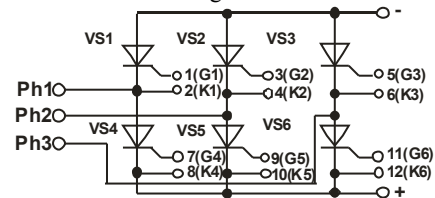


Figure 1

Figure 2

Product description	Figure	d, mm	d ₁ , mm
M24-63-12	1	M5	M5
M24-100-12	1	M6	M5
M24-160-12	1	M6	M5
M24-200-12	2	M8	M6
M24-250-12	2	M8	M6



BASIS CHARACTERISTICS

T = 25 °C

Product name	Pulse voltage: on-state, U _{TM} /U _{FM} , V		Blocking state current, I _D /I _R , 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, U _{ISOL} , V		Thyristor non-trigger DC voltage, U _{GD} , V	Thermal junction to radiator resistance R _{th(j-c)} , °C/W
	max	I _O , A amplit. value	max	U _D /U _R , V	max	max	min	t, minute	max	
M24-63-12	1.65	$\frac{\pi}{3} \cdot I_O$, 10 ms, 50 Hz, sinus	2.0	± 1200	3.0	200	4000	1	0.25	1.00
M24-100-12										0.50
M24-160-12										0.35
M24-200-12										0.20
M24-250-12										0.15

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Thyristor repetitive/non-repetitive pulse voltage off-state, U _{RRM} /U _{DRM} , V	Average rectified current, I _O , A	Linear voltage (rms.), U _{lin} , V	Non-repetitive surge DC, I _{TSM} , A	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	
	max	max	max	max			t, ms	max
M24-63-12	± 1200	63	840	300	1000	150	- 40	+125
M24-100-12		100		600				
M24-160-12		160		1200				
M24-200-12		200		1400				
M24-250-12		250		1600				

*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