THREE-PHASE THYRISTOR BRIDGE OPTOELECTRONIC MODULES
MO24-63-16; MO24-100-16; MO24-160-16; MO24-200-16; MO24-250-16
MO24A-63-16; MO24A-100-16; MO24A-160-16; MO24A-200-16; MO24A-250-16
DATASHEET IN BRIEF

Three-phase bridge module is intended for rectifying (conversion of AC into pulsating direct voltage).

OVERALL DRAWINGS AND MODULE CIRCUIT

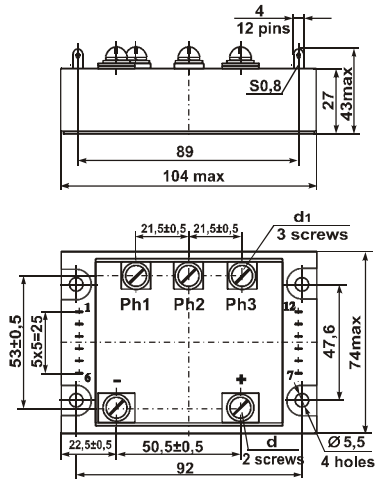


Figure 1

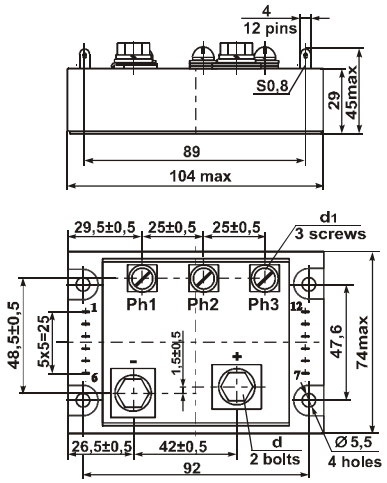
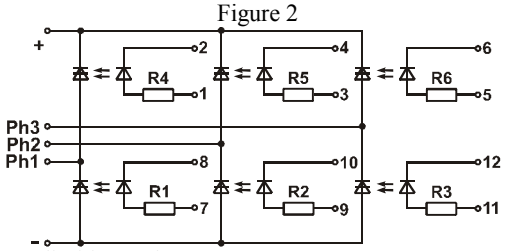


Figure 2

Product description	Figure	d	d
MO24(A)-63-16	1	M5	M5
MO24(A)-100-16	1	M6	M5
MO24(A)-160-16	1	M6	M5
MO24(A)-200-16	2	M8	M6
MO24(A)-250-16	2	M8	M6



R1 – R6 – limiting resistors 100 Ω 0.125 W

T = 25 °C

BASIC CHARACTERISTICS

Product name	Pulse open state voltage, U_{TM}, V		Closed state current, I_D, мА		Open state voltage on control input, U_G, V		Electric isolation strength at DC between radiator and outputs U_{ISOL}, V	Electric isolation resistance output-input/output-radiator R_{ISOL}, MΩ	Thermal resistance junction-cooler (to thyristor) Rth(j-c), °C/W
		I_O, A		U_O, V		Iвх (mA)			
	max		max		max		min	min	max
MO24-63-16	1.65	63	± 2.0	±1600	5.5	10	4000	100 / 10	1.0
MO24-100-16		100							0.5
MO24-160-16		160							0.35
MO24-200-16		200							0.2
MO24-250-16		250							0.15
Note- Characteristic value of MO24 A modules are identical to the characteristics values of corresponding MO24 modules									

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Repetitive/non-repetitive pulse off-state thyristor voltage, U_{RRM} / U_{DRM}, V	Linear voltage (rms) U, V		Average rectified module current, Io, A (Trad = 90 °C)		Non-repetitive surge module DC, I_{TSM}, A	t_{pul}, ms	Control current I_G, mA		Critical rate of rise		Junction temperature Tj** ^{0}C	
										of current $(di_T / dt)cr$, A / µs	of voltage $(du_R / dt)cr$, V / µs		
	max	min	max	min	max	max		min	max	max	max	min	max
MO24-63-16	± 1600	50*	1150	0.2	63	300	10	10	30	150	1000	-40	+125
MO24-100-16					100	600							
MO24-160-16					160	1000							
MO24-200-16					200	1400							
MO24-250-16					250	1600							

*12 V– for modules of type MO24A (the value of other modes of modules MO24A are identical to the mode values of corresponding to the modules MO23)

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

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