THREE-PHASE THYRISTOR-DIODE BRIDGE MODULE
MO23-63-16; MO23-100-16; MO23-160-16; MO23-200-16; MO23-250-16
MO23A-63-16; MO23A-100-16; MO23A-160-16; MO23A-200-16; MO23A-250-16
TICKET

Three-phase thyristor-diode bridge module with opto decoupling with thyristors control connected to "positive" output is intended for rectifying (conversion of AC into pulsating DC voltage).

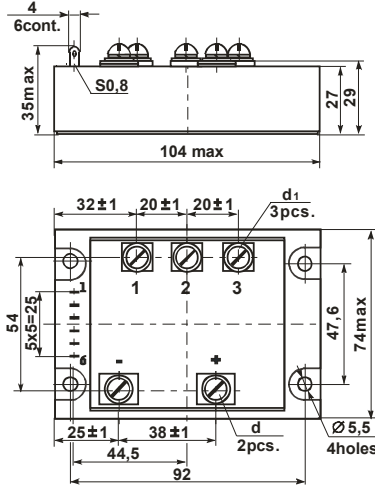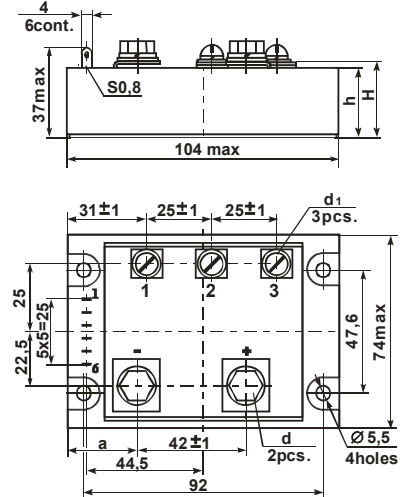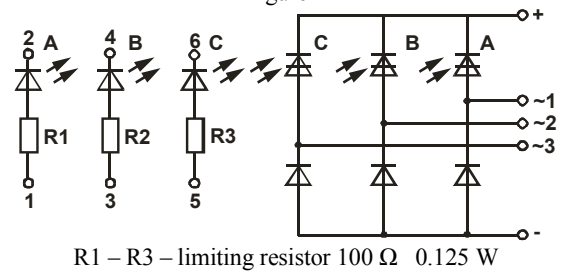### OVERALL DRAWINGS AND MODULE CIRCUIT

Figure 1

Figure 2

R1 – R3 – limiting resistor 100 Ω   0.125 W

Product description	Figure	d	d_1	a, mm	h, mm	H, mm
MO23(A)-63-16	1	screw M5	screw M5	-	-	-
MO23(A)-100-16	2	screw M6	screw M5	24±1	27	29
MO23(A)-160-16	2	screw M6	screw M5	24±1	27	29
MO23(A)-200-16	2	bolt M8	screw M6	26±1	29	31
MO23(A)-250-16	2	bolt M8	screw M6	26±1	29	31

BASIC CHARACTERISTICS
T= 25 °C

Product name	Peak voltage in thyristor on-state / direct diode peak voltage, U_{TM} / U_{FM}, V		Bridge port current (closed state), I_D, mA		Open state voltage on control input U_{Gon}, V		Electric isolation at DC, U_{ISOL}, V	Isolation resistance between: power outputs and controlling outputs/ power outputs and radiator, R_{ISOL}, MΩ	Thermal resistance junction-housing radiator R_{thic}, °C/W	
		I_{OUT}, A		U_{OUT}, V		I_{Gon}, mA			thyristor	diode
	max		max		max		min	min	max	max
MO23-63-16		63							1.0	1.3
MO23-100-16		100							0.5	0.6
MO23-160-16	1.65	160	± 2.0	± 1600	5.5	10	4000	100 / 10	0.35	0.4
MO23-200-16		200							0.2	0.3
MO23-250-16		250							0.15	0.2

Note- Characteristics value of MO23A modules are identical to the characteristics values of corresponding MO23 modules

MAXIMUM ALLOWABLE OPERATING MODES

Product name	Linear voltage (rms), Ulin, V		Average rectified module current, Io, A		Non-repetitive surge DC $I_{F(SM)}$ $I_{T(SM)}$, A		Control current I_G, mA		Critical rate of rise		Junction temperature, T_{VJ}*, °C	
									open state current, (di_T / dt) cr, A/µs	closed state voltage, (du_d / dt)cr, V/µs		
	min	max	min	max	max	t, ms	min	max			min	max
MO23-63-16				63	300							
MO23-100-16				100	600							
MO23-160-16	50*	1150	0.2	160	1200	10	10	30	150	1000	-40	+125
MO23-200-16				200	1400							
MO23-250-16				250	1600							

**12 V– for modules of type MO23A (the value of other modes of modules MO20A are identical to the mode values of corresponding modules MO23)

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

Precious metals are not contained