SINGLE-PHASE OPTOTHYRISTOR BRIDGE MODULE
MO22-63-16; MO22-100-16; MO22-160-16; MO22A-63-16; MO22A-100-16; MO22A-160-16
TICKET

Single-phase thyristor-diode bridge module with opto decoupling with thyristors control connected to "positive" and "negative" outputs is intended for rectifying conversion of AC into pulsating DC voltage).
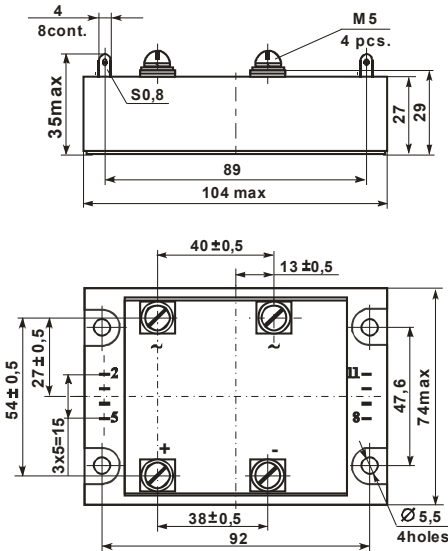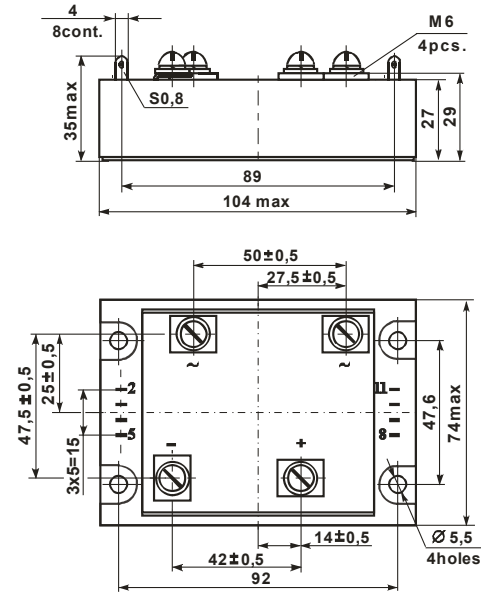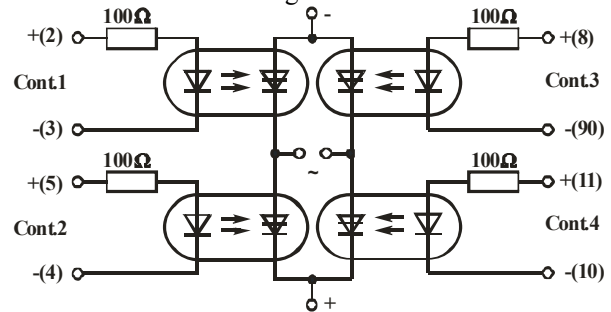
OVERALL DRAWING AND ELECTRIC CIRCUIT

Figure 1

Figure 2

Product description	Figure
MO22-63-16; MO22A-63-16	1
MO22-100-16; MO22A-100-16	1
MO22-160-16; MO22A-160-16	2

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 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 transition-housing radiator R_{thic}, °C/W
		I_{OUT}, A		U_{OUT}, V	min	max	I_{Gon}, mA			
	max		max		min	max		min	min	max
MO22-63-16 MO22A-63-16	1.65	63	± 1.5	± 1600	3.0	4.2	10	4000	100 / 10	1.0
MO22-100-16 MO22A-100-16		100								0.50
MO22-160-16 MO22A-160-16		160								0.35

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
MO22-63-16	50				63	300							
MO22A-63-16	12												
MO22-100-16	50	1150	0.2		100	600	10	10	30	150	1000	-40	+125
MO22A-100-16	12												
MO22-160-16	50				160	1200							
MO22A-160-16	12												

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

Precious metals are not contained