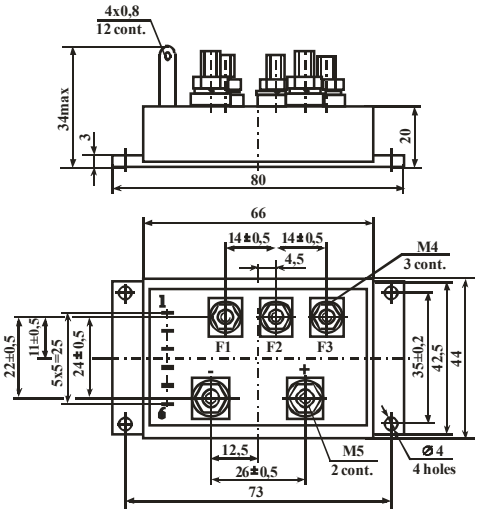
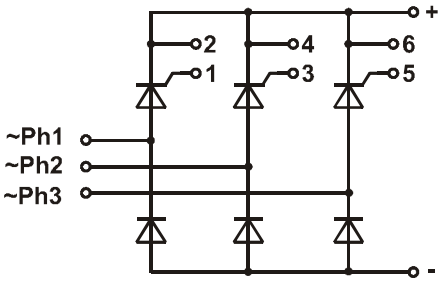
3-PHASE THYRISTOR BRIDGE MODULE
M23M-63-12
DATASHEET IN BRIEF

Module of three-phase thyristor - diode bridge with controlling with three thyristors in cathode group, is intended for rectifying (converting alternating current into pulsating constant voltage)

OVERALL DRAWING AND MODULE CIRCUIT





BASIC PARAMETERS

T = 25 °C

Parameter		M23M-63-12
Pulse voltage in thyristor/diode on-state, U_{TM}/U_R, V	max	1.65
	I_O, A amplit. value	$\frac{\pi}{3} \bullet I_O$, 10 ms,50 Hz, sinus
Off-state current thyristor/diode I_D/I_R, mA	max	2.0
	U_O, V	± 1200
Unlocking thyristor control direct voltage, U_{GT}, V	max	3.0
Unlocking thyristor control direct current, I_{GT}, mA	max	200
Electric isolation strength at DC between the radiator and power outputs, U_{ISOL}, V	min	4000
	t, minute	1
Gate non-trigger direct voltage of thyristor control, U_{GD}, V Tj =125 °C	min	0.25
Thermal resistance junction – radiator, $R_{th(j-c)}$, °C/W	max	1.00

MAXIMUM ALLOWABLE OPERATING MODES

Parameter		M23M-63-12
Repeating / non-repeating thyristor impulse voltage in blocking state, U_{RRM}/U_{DRM}, V	max	± 1200
Average Rectified Current, Io, A T_{case}=85 °C	max	63
	max	840
Non-repeating direct surge current, I_{TSM}, A	max	300
	t, ms	10
Critical rising rate of reverse voltage, $(du_R/dt)cr$, V/µs	max	1000
Critical rising rate of forward current, $(di_T/dt)cr$, A/µs	max	150
Junction temperature T_{VJ} *, °C	min	- 40
	max	+125

Precious metals are not contained.

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