



THREE-PHASE DIODE BRIDGE MODULE

M6FRD-50-12; M6FRD-100-12; M6FRD-150-12; M6FRD-200-12

DATASHEET IN BRIEF

Three-phase rectifier bridge module on the basis of fast-recovery diodes is intended for rectifying (alternating voltage conversion into pulsating direct voltage).

OVERALL DRAWINGS AND MODULE CIRCUIT

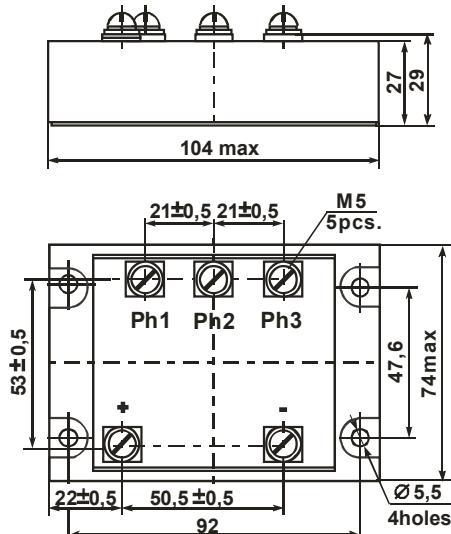


Figure 1

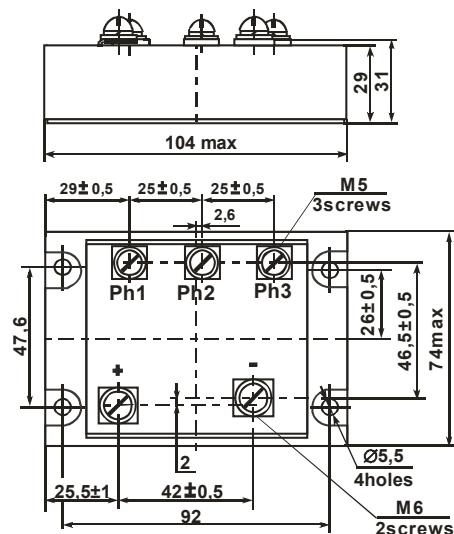


Figure 2

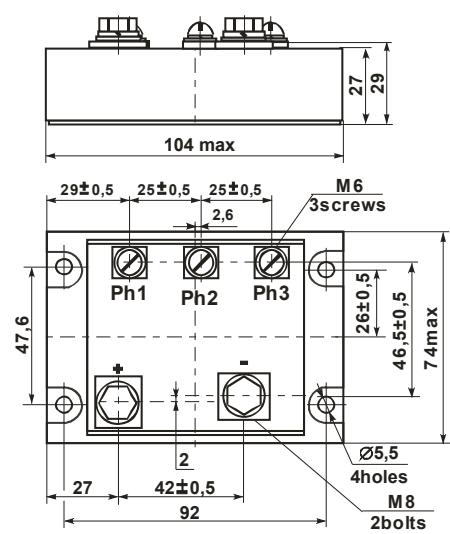
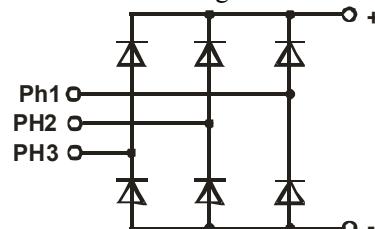


Figure 3

Symbol	Figure
M6FRD-50-12	1
M6FRD-100-12	1
M6FRD-150-12	2
M6FRD-200-12	3



BASIC CHARACTERISTICS

T = 25 °C

PARAMETER	50 A	100 A	150 A	200 A
Pulse DC diode voltage, U _{FM} , V	I _O , A	50	100	150
	max			1.8
Reverse valve current, I _{RRM} , mA	max			1.5
	U _{RRM} , V			1200
Electric DC isolation strength between radiator and power outputs, U _{ISOL} , V	min		4000	
	t, minute			1
Thermal resistance junction-cooler R _{th(j-c)} , °C/W	max	0.55	0.3	0.22
				0.19

MAXIMUM PERMISSIBLE OPERATING MODES

PARAMETER	50 A	100 A	150 A	200 A
Pulse non-repetitive reverse diode voltage, U _{RSM} , V	max			1300
Pulse repetitive reverse diode voltage, U _{RSM} , V	max			1200
Average rectifier current, I _O , A	max	50	100	150
Linear voltage (rms.), U _{lin} , V	max			840
Non-repetitive surge DC, I _{FSM} , A	max	500	1000	1500
	T _a , °C			125
Maximum commutation frequency, f _{com} , kHz				100
Junction temperature, T _{VJ} *, °C	min		- 40	
	max		+ 125	

* module is designed for operating in the equipment using coolers that support junction temperature in the prescribed ranges

Precious metals are not contained

CONTENT OF NON-FERROUS AND PRECIOUS METALS

The module contains the non-ferrous metals: Copper..... g
Brass..... g

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