

DIODE-DIODE MODULES
M4; M4A
25A, 40A, 63A, 80A, 100A, 125A, 160A, 200A, 250A; 16 class
DATASHEET IN BRIEF

A diode-diode module is intended for converting of AC into pulsating DC (as a part of single-phase and three-phase diode bridges).

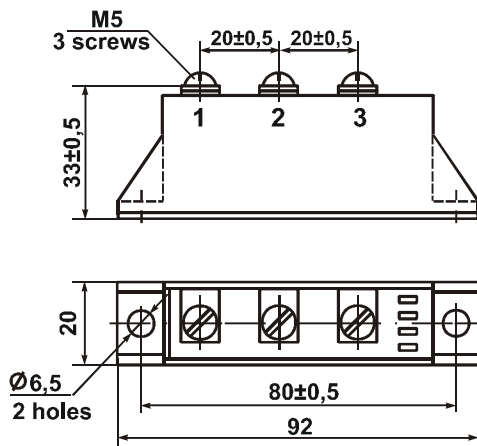
OVERALL DRAWINGS


Figure 1 – Overall drawing of housing E1

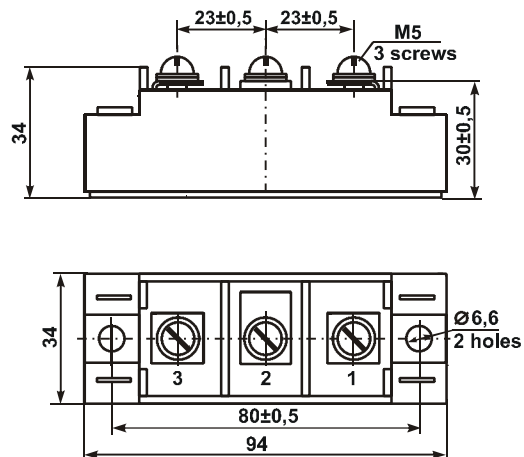


Figure 2 – Overall drawing of housing E2

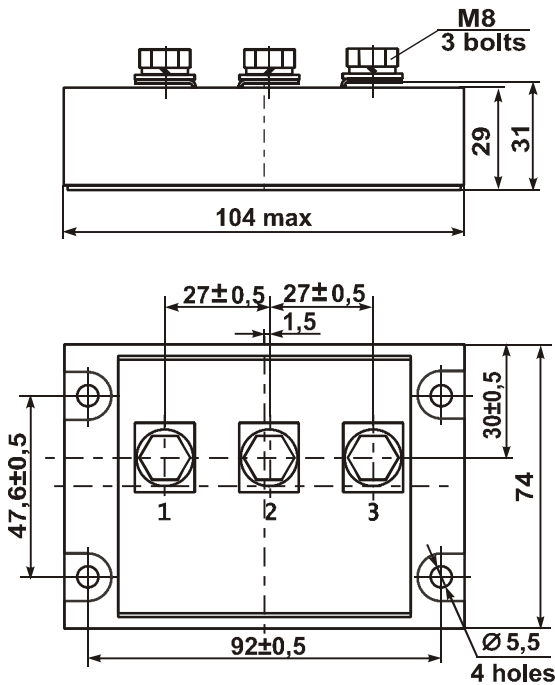


Figure 3 – Overall drawing of housing DM

TABLE OF OVERALL DRAWINGS

Module name	Figure	Module name	Figure
M4-25-16	1 or 2	M4A-25-16	1 or 2
M4-40-16	1 or 2	M4A-40-16	1 or 2
M4-63-16	1 or 2	M4A-63-16	1 or 2
M4-80-16	1 or 2	M4A-80-16	1 or 2
M4-100-16	2	M4A-100-16	2
M4-125-16	2	M4A-125-16	2
M4-160-16	2	M4A-160-16	2
M4-200-16	3	M4A-200-16	3
M4-250-16	3	M4A-250-16	3

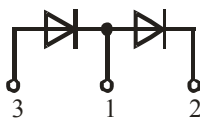
INTERNAL CONNECTION CIRCUITS


Figure 4 – Modules connection circuit of type M4 – for currents 25 A ÷ 160 A and of type M4A – for currents 200 A ÷ 250 A

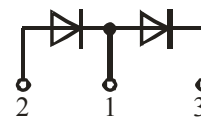


Figure 4 – Modules connection circuit of type M4 – for currents 200 A ÷ 250 A and of type M4A – for currents 25A ÷ 160 A

BASIC CHARACTERISTICS

T = 25 °C

Product name	Pulse direct voltage, U_{FM} , V		Repetitive pulse reverse current, I_{RRM} , mA		Electric isolation strength at DC between radiator and power outputs, U_{ISOL} , V		Thermal junction to cooler resistance, $R_{th(j-c)}$, (°C/W)	
	max	I_o , A amplit. value	max	U_o , V	min	t, minute	max	
M4(A)-25-16	1.65	$\pi \cdot I_{F(AV)}$, 10 ms, 50 Hz, sinus	1.0	1600	4000	1	0.8	
M4(A)-40-16							0.7	
M4(A)-63-16							0.55	
M4(A)-80-16							0.45	
M4(A)-100-16							0.3	
M4(A)-125-16							0.25	
M4(A)-160-16							0.22	
M4(A)-200-16							0.19	
M4(A)-250-16							0.15	

MAXIMUM ALLOWABLE OPERATING MODES

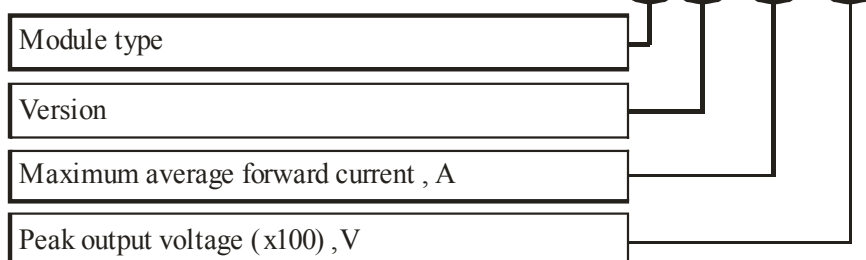
Product name	Non-repetitive pulse reverse voltage U_{RSM} , V	Diode repetitive pulse reverse voltage/off-state, U_{RRM} , V	Diode average DC $I_{F(AV)}$, A	Diode root-mean-square DC I_{FRMS} , A	Diode surge DC $I_{F(SM)}$, A		Critical rate of rise of on-state current, (di_T/dt) cr, A/ μ s	Junction temperature, T_{VJ}^{**} , °C	
					t, ms	max		min	max
M4(A)-25-16	1600	1600	25	39	200	10	150	- 40	+125
M4(A)-40-16			40	63	560				
M4(A)-63-16			63	95	720				
M4(A)-80-16			80	125	960				
M4(A)-100-16			100	155	1350				
M4(A)-125-16			125	188	2500				
M4(A)-160-16			160	250	4000				
M4(A)-200-16			200	310	5000				
M4(A)-250-16			250	390	6000				

* the modules are designed to operate in equipment with using of coolers that support transition temperature in the prescribed ranges

Precious metals are not contained.

MODULE DESCRIPTION

M4 A - 63 - 16



Note – when ordering the module, you must specify the housing type (E1, E2, DM)