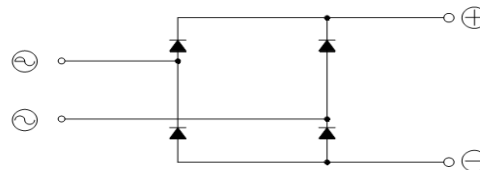


MMS75

POWER RECTIFIER BRIDGE

Output Current **75 A**



Features

Low forward voltage diodes for high surge capability
Low thermal impedance packaging
Electrically insulated case

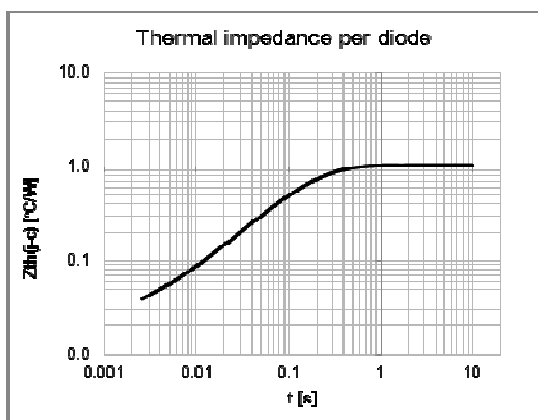
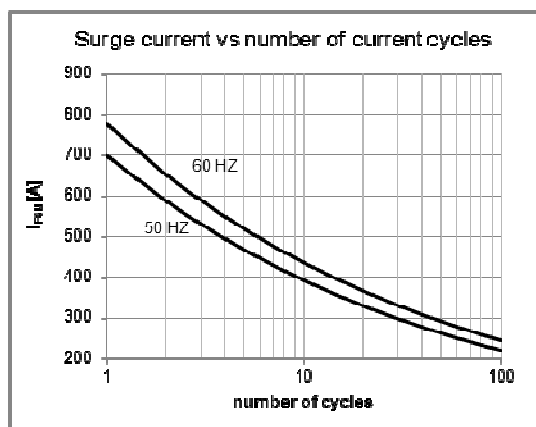
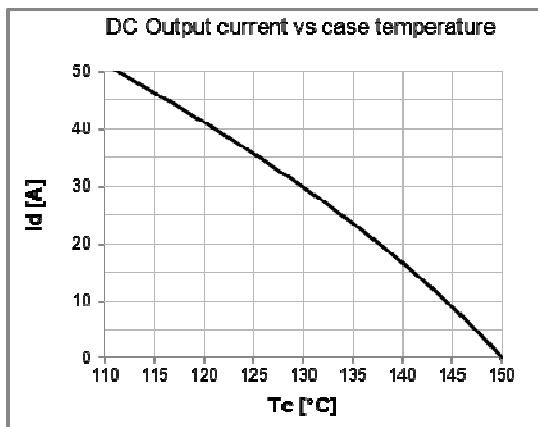
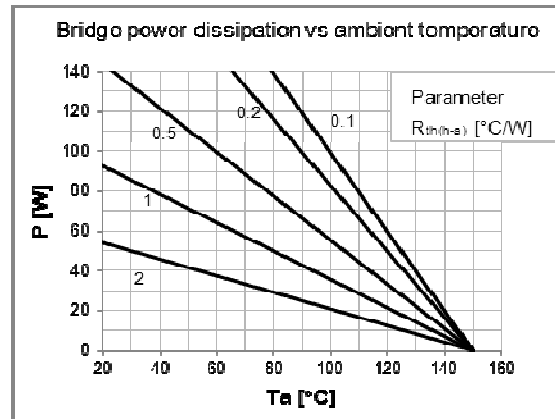
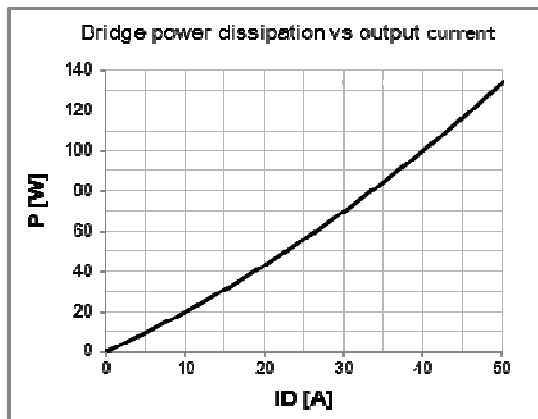
Applications

Input rectifier for variable frequency drives
Battery charger rectifiers
Three phase rectifier for power supplies
Rectifiers for DC motor fields supplies

V_{RRM}	V_{RSM}	P/N
400	500	MMS75.04
800	900	MMS75.08
1200	1300	MMS75.12
1400	1500	MMS75.14
1600	1700	MMS75.16

Diodes characteristics		Conditions	T_j [°C]	Value
I_{RRM}	Max repetitive peak reverse current	$V = V_{RRM}$	150	4 mA
$V_{F(TO)}$	Threshold voltage		150	0,9 V
r_F	Forward slope resistance		150	7,0 mΩ
V_{FM}	Peak forward voltage, max	$I_F = 100A$	25	1,5 V
I_{FSM}	Surge forward current	Half sine wave, 10 ms	150	700 A
I^2t	Max I^2t for fusing		150	2450 A ² s
T_{jmax}	Operating junction temperature			-40 / 150 °C
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation		1,04 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rectangular wave 180° conduction		1,16 °C/W

Module characteristics		Conditions	Value
I_D	DC output current	$T_c = 95$ °C	75 A
I_D	DC output current	$T_a = 40$ °C ; freely suspended	5 A
V_{INS}	RMS Insulating voltage	50 / 60 Hz $t = 1$ s ($i < 1$ mA)	3600 V
V_{INS}	RMS Insulating voltage	50 / 60 Hz $t = 60$ s ($i < 1$ mA)	3000 V
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation	0,261 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rect. wave 180° conduction	0,290 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)	Mounting surface flat, smooth and greased	0,115 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Freely suspended or mounted on an insulator	9,0 °C/W
$R_{th(j-a)}$	Thermal resistance (junction to ambient)	Mounted on a painted metal sheet 250x250x1 mm	3,8 °C/W
T_{stg}	Max storage temperature		150 °C
W	Weight		85 g
M_1	Mounting torque, ± 15 %		4,5 N·m
			40 lb·inch
M_2	Terminal connection torque, ± 15 %		3,0 N·m
			26 lb·inch



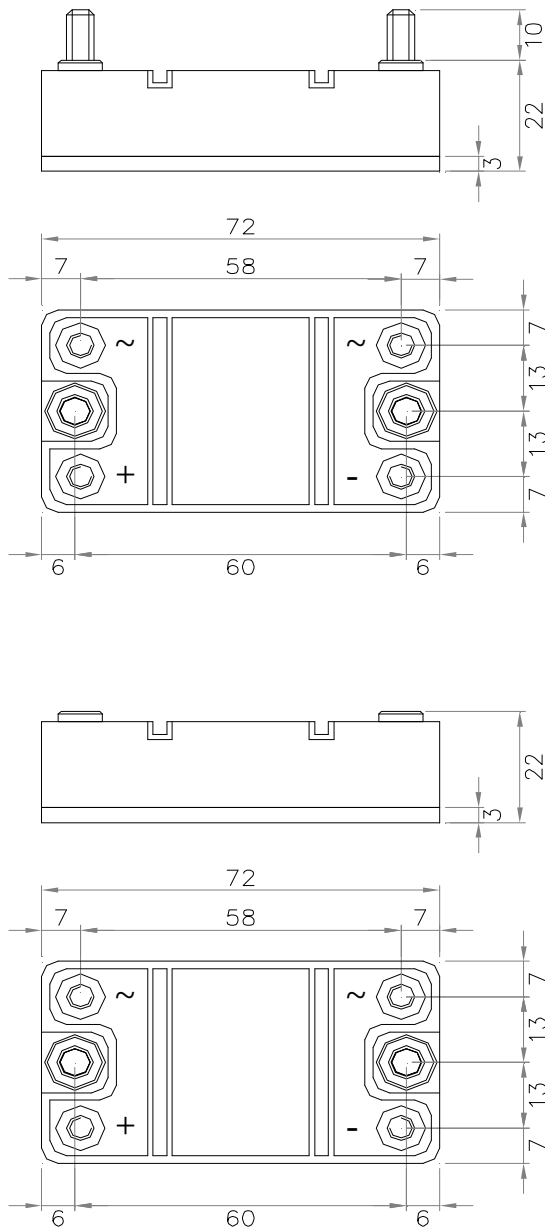


Fig.1 MMS75.04-MM5x10-FIX5-HP-P60-TB
Code:960000750000
MMS75.06-MM5x10-FIX5-HP-P60-TB
Code:960000750002
MMS75.08-MM5x10-FIX5-HP-P60-TB
Code:960000750004
MMS75.12-MM5x10-FIX5-HP-P60-TB
Code:960000750006
MMS75.16-MM5x10-FIX5-HP-P60-TB
Code:960000750008

Fig.2 MMS75.04-SS5-FIX5-HP-P60-TB
Code:960000750001
MMS75.06-SS5-FIX5-HP-P60-TB
Code:960000750003
MMS75.08-SS5-FIX5-HP-P60-TB
Code:960000750005
MMS75.12-SS5-FIX5-HP-P60-TB
Code:960000750007
MMS75.16-SS5-FIX5-HP-P60-TB
Code:960000750009

Voltage:04=400V 08=800V 12=1200V 14=1400V 16=1600V

Power fix:

SS=Screw (M5)
MM=Bolt (M5)

Mounting fix:

FIX= Ø5,5