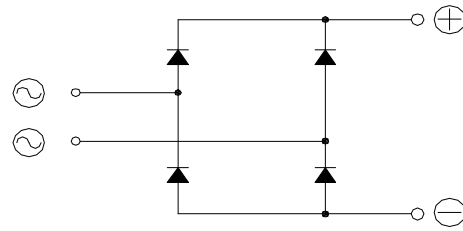


## MMS60

### POWER RECTIFIER BRIDGE

Output Current **60 A**



$V_{RRM}$	$V_{RSM}$	P/N
400	500	MMS60.04
600	700	MMS60.06
800	900	MMS60.08
1200	1300	MMS60.12
1600	1700	MMS60.16

#### Features

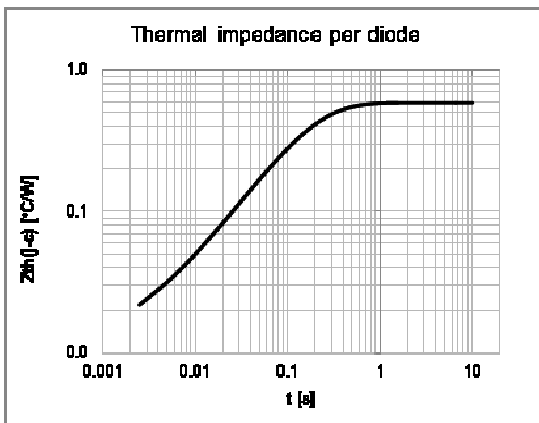
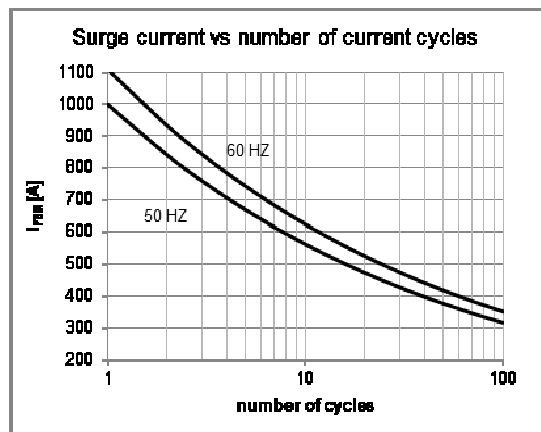
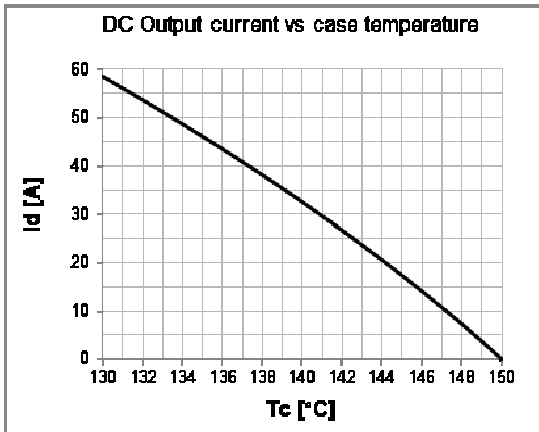
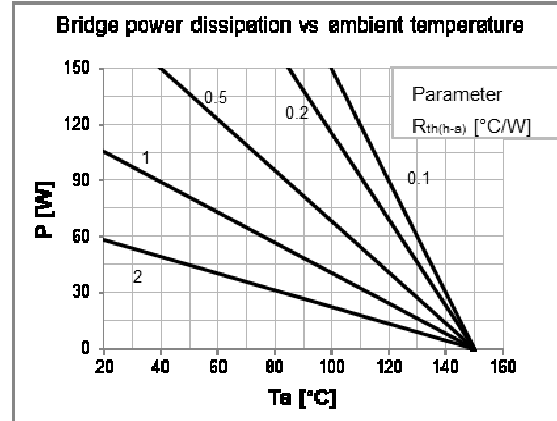
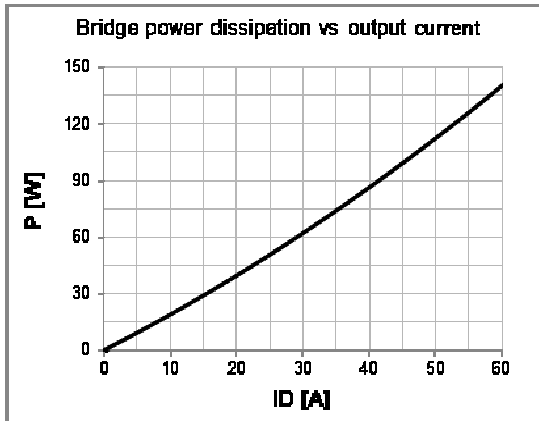
- Low forward voltage diodes for high surge capability
- Low thermal impedance packaging
- Electrically insulated case

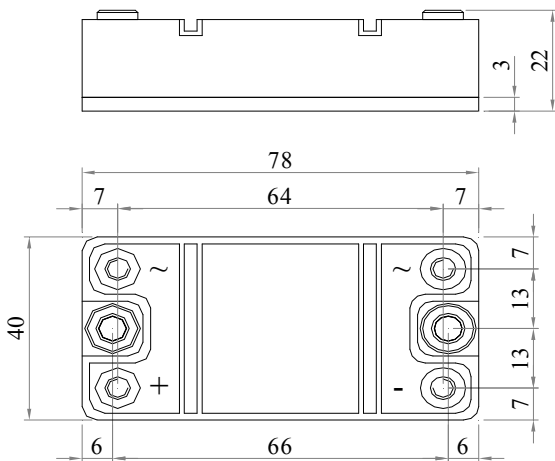
#### Applications

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

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	3,6 mΩ
$V_{FM}$	Peak forward voltage, max	$I_F = 100A$	25	1,3 V
$I_{FSM}$	Surge forward current	Half sine wave, 10 ms	150	1000 A
$I^2t$	Max $I^2t$ for fusing		150	5000 A <sup>2</sup> s
$T_{jmax}$	Operating junction temperature			-40 / 150 °C
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation		0,53 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rectangular wave 180° conduction		0,59 °C/W

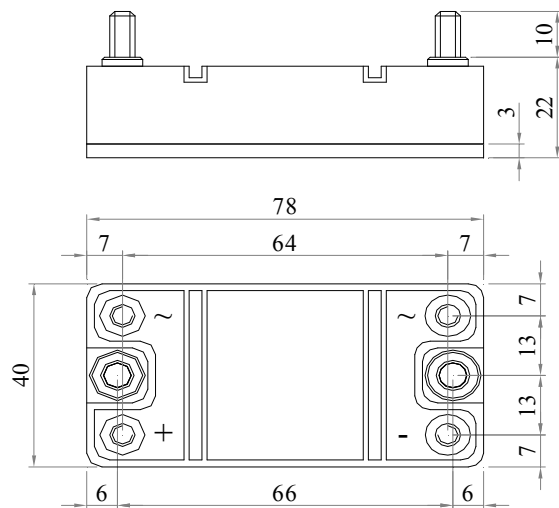
Module characteristics		Conditions	Value
$I_D$	DC output current	$T_c = 129$ °C	60 A
$I_D$	DC output current	$T_a = 40$ °C ; freely suspended	7 A
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 1$ s ( $i < 1$ mA)	3600 V
$V_{INS}$	RMS Insulating voltage	50 / 60 Hz $t = 60$ s ( $i < 1$ mA)	3000 V
$R_{th(j-c)}$	Thermal resistance (junction to case)	DC operation	0,133 °C/W
$R_{th(j-c)}$	Thermal resistance (junction to case)	Rect. wave 180° conduction	0,147 °C/W
$R_{th(c-h)}$	Thermal resistance (case to heatsink)	Mounting surface flat, smooth and greased	0,088 °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
$M_1$	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**

- MMS60.04-SS5-FIX5-HP-P66-TB  
Code:960000600001
- MMS60.06-SS5-FIX5-HP-P66-TB  
Code:960000600003
- MMS60.08-SS5-FIX5-HP-P66-TB  
Code:960000600005
- MMS60.12-SS5-FIX5-HP-P66-TB  
Code:960000600007
- MMS60.16-SS5-FIX5-HP-P66-TB  
Code:960000600009



**Fig.2**

- MMS60.04-MM5x10-FIX5-HP-P66-TB  
Code:960000600000
- MMS60.06-MM5x10-FIX5-HP-P66-TB  
Code:960000600002
- MMS60.08-MM5x10-FIX5-HP-P66-TB  
Code:960000600004
- MMS60.12-MM5x10-FIX5-HP-P66-TB  
Code:960000600006
- MMS60.16-MM5x10-FIX5-HP-P66-TB  
Code:960000600008

**Voltage:04=400V 06=600V 08=800V 12=1200V 16=1600V**

**Power fix:**

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

**Mounting fix:**

FIX= Ø5,5