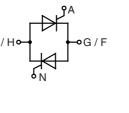


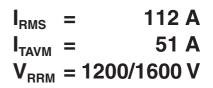
AC Controller Modules

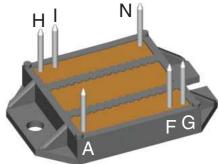
V_{RSM}	V _{RRM}	
V _{DSM} V	V _{DRM} V	Тур
1300	1200	MMO 140-12io7
1700	1600	MMO 140-16io7

Preliminary Data

Symbol	Conditions	Maximum Rat	tings
I _{RMS}	$T_c = 85^{\circ}C$; 50-400 Hz (per single controller)	112	A
TRMS		81	Α
TAVM	$T_{c} = 85^{\circ}C; 180^{\circ} sine$	51	A
I _{TSM}	$T_{VJ} = 45^{\circ}C;$ t = 10 ms (50 Hz)	1000	А
	$V_{R} = 0$ t = 8.3 ms (60 Hz)	1070	A
	$T_{vJ} = 125^{\circ}C; t = 10 \text{ ms}$ (50 Hz)	870	Α
	$V_{\rm R} = 0$ t = 8.3 ms (60 Hz)	930	A
l²t	$T_{vJ} = 45^{\circ}C;$ t = 10 ms (50 Hz)	5000	A ² s
	$V_{\rm B} = 0$ t = 8.3 ms (60 Hz)	4810	A ² s
	$T_{vJ} = 125^{\circ}C; t = 10 ms$ (50 Hz)	3780	A ² s
	$V_{\rm R} = 0$ t = 8.3 ms (60 Hz)	3630	A ² s
(di/dt) _{cr}	$T_{vJ} = 125^{\circ}C;$ repetitive, $I_{T} = 50 \text{ A}$ f = 50 Hz; $t_{p} = 200 \mu\text{s};$	100	A/µs
	$V_{D} = {}^{2}\!/_{3} V_{DRM};$ $I_{G} = 0.45 A;$ $di_{G}/dt = 0.45 A/\mu s$ non repetitive, $I_{T} = I_{TAVM}$	500	A/µs
(dv/dt) _{cr}	$T_{VJ} = 125^{\circ}C; V_{D} = \frac{2}{3} V_{DRM};$ $R_{GK} = \infty;$ method 1 (linear voltage rise)	1000	V/µs
P _{GM}	$T_{y_1} = 125^{\circ}C;$ $t_p = 30 \text{ ms}$	10	W
	$I_{\rm T} = I_{\rm T(AV)M};$ $t_{\rm p} = 300 {\rm ms}$	5	W
P _{GAVM}		0.5	W
V _{RGM}		10	V
T _{vj}		-40+150	°C
T _{VJM}		150	°C
T _{stg}		-40+125	°C
VISOL	50/60 Hz, RMS t = 1 min	2500	V~
	$I_{ISOL} \le 1 \text{ mA}$ $t = 1 \text{ s}$	3000	V~
M _d	Mounting torque (M4)	1.5 - 2.0	Nm
		14 - 18	lb.in.
Weight	Typical including screws	18	g







Features

- Thyristor controller for AC (circuit W1C acc. to IEC) for mains
- frequency • Isolation voltage 3000 V~
- Planar glass passivated chips
- Low forward voltage drop
- Leads suitable for PC board soldering

Applications

- Switching and control of single and three phase AC circuits
- Light and temperature control
- Softstart AC motor controller
- Solid state switches

Advantages

- · Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling
- · High power density
- Small and light weight

Data according to IEC 60747 and refer to a single diode unless otherwise stated.

Disclaimer Notice

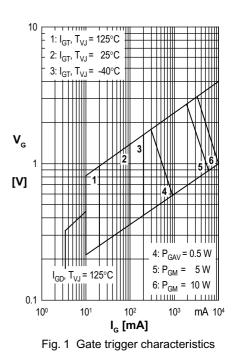
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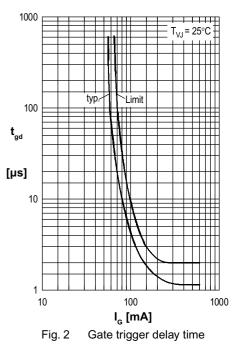
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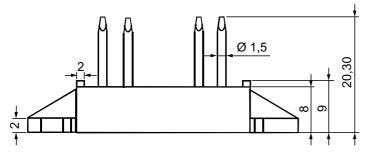


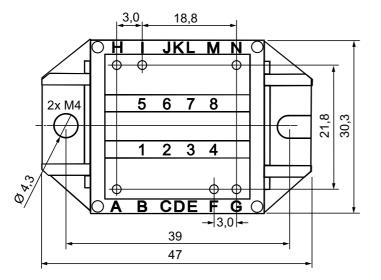
Symbol	Conditions	Characteristic Values				
			typ.	max.		
I _D , I _R	$V_{\rm R}/V_{\rm D} = V_{\rm RRM}/V_{\rm DRM}$	$T_{VJ} = 125^{\circ}C$		5	mA	
V _T	I _T = 150 A	$T_{VJ} = 25^{\circ}C$		1.57	V	
ν _{το} r _t	For power-loss calculations only			0.85 5.60	V mΩ	
V _{GT}	$V_{D} = 6 V$	$\begin{array}{l} T_{vJ}=~25^{\circ}C\\ T_{vJ}=-40^{\circ}C \end{array}$		1.5 1.9	V V	
I _{GT}	$V_{D} = 6 V$	$\begin{array}{l} T_{vJ}=~25^{\circ}C\\ T_{vJ}=-40^{\circ}C \end{array}$		100 200	mA mA	
V _{gd} I _{gd}	$V_{D} = {}^{2}/_{3} V_{DRM};$	$T_{VJ} = 125^{\circ}C$		0.2 1	V mA	
l	$t_p = 10 \ \mu s;$ $I_G = 0.45 \ A; \ di_G / dt = 0.45 \ A / \mu s$	$T_{vJ} = 25^{\circ}C$		200	mA	
I _H	$V_{D} = 6 V; R_{GK} = \infty;$	$T_{VJ} = 25^{\circ}C$		100	mA	
t _{gd}	$V_{D} = \frac{1}{2}V_{DRM}$ $I_{G} = 0.45 \text{ A}; di_{G}/dt = 0.45 \text{ A}/\mu \text{s}$	$T_{vJ} = 25^{\circ}C$		2	μs	
$\mathbf{R}_{ ext{thJC}}$ $\mathbf{R}_{ ext{thCH}}$	per thyristor; DC current		0.12	0.80	K/W K/W	
R _{thJC} R _{thCH}	per module		0.06	0.40	K/W K/W	
d _s d _A a	Creeping distance on surface Creepage distance in air Maximum allowable acceleration			11.2 5.0 50	mm mm m/s²	





Dimensions in mm (1 mm = 0.0394")





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25.640.5053.0						