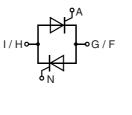


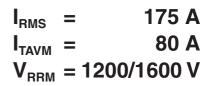
AC Controller Modules

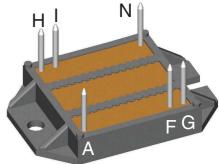
V_{RSM}	V _{RRM}	
V _{DSM} V	V _{DRM} V	Тур
1300 1700	1200 1600	MMO 175-12io7 MMO 175-16io7

Preliminary Data

Symbol	Conditions	Maximum Rat	tings
I _{RMS}	T _c = 85°C; 50-400 Hz (per single controller)	175	Α
ITRMS		125	А
ITAVM	T _c = 85°C; 180° sine	80	A
I _{TSM}	$T_{v_J} = 45^{\circ}C;$ t = 10 ms (50 Hz)	1500	Α
	$V_{\rm R} = 0$ t = 8.3 ms (60 Hz)	1600	A
	$T_{vJ} = 125^{\circ}C; t = 10 \text{ ms}$ (50 Hz)	1350	Α
	$V_{\rm R} = 0$ t = 8.3 ms (60 Hz)	1450	A
l²t	$T_{vJ} = 45^{\circ}C;$ t = 10 ms (50 Hz)	11 200	A ² s
	$V_{\rm B} = 0$ t = 8.3 ms (60 Hz)	10 750	A ² s
	$T_{y_{y_{z}}} = 125^{\circ}C; t = 10 \text{ ms}$ (50 Hz)	9 100	A ² s
	$V_{\rm B} = 0$ t = 8.3 ms (60 Hz)	8 830	A ² s
(di/dt) _{cr}	$T_{vJ} = 125^{\circ}C;$ repetitive, $I_{T} = 80 \text{ A}$ f = 50 Hz; t _p = 200 µs;	150	A/µs
	$V_{D} = \frac{2}{_{3}} V_{DRM};$ $I_{G} = 0.45 \text{ A};$ $di_{G}/dt = 0.45 \text{ A}/\mu \text{s}$ 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} = ∞; method 1 (linear voltage rise)	1000	V/µs
PGM	$T_{y_{y_{z}}} = 125^{\circ}C;$ $t_{p} = 30 \text{ ms}$	10	W
Cim	$I_T = I_{T(AV)M};$ $t_p = 300 \text{ ms}$	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	٧~
	$I_{ISOL} \le 1 \text{ mA}$ $t = 1 \text{ s}$	3000	٧~
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

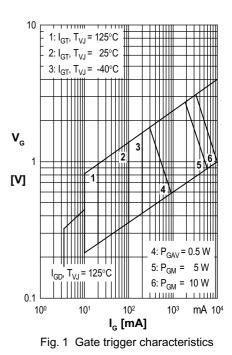
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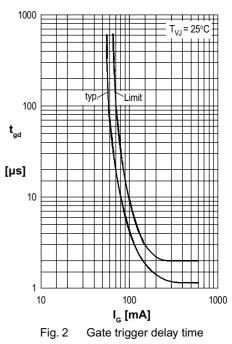
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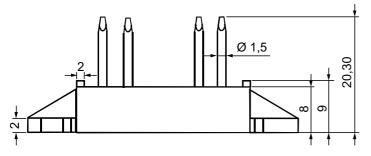


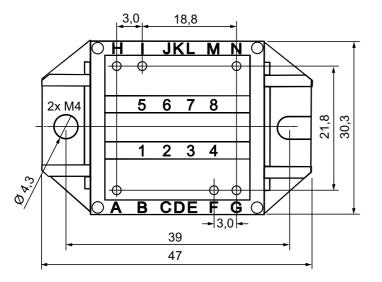
Symbol	Conditions	Characteristic Values				
			typ.	max.		
I _D , I _R	$V_{\rm R}/V_{\rm D} = V_{\rm RRM}/V_{\rm DRM}$	$T_{VJ} = 125^{\circ}C$		5	mA	
V _T	I _T = 200 A	$T_{VJ} = 25^{\circ}C$		1.57	V	
ν _{το} r _t	For power-loss calculations only			0.85 3.70	V mΩ	
V _{gt}	$V_{D} = 6 V$	$\begin{array}{l} T_{vJ}=~25^{\circ}C\\ T_{vJ}=-40^{\circ}C \end{array}$		1.5 1.6	V V	
I _{GT}	$V_{D} = 6 V$	$T_{VJ} = 25^{\circ}C$ $T_{VJ} = -40^{\circ}C$		100 200	mA mA	
V _{gd} I _{gd}	$V_{D} = {}^{2}/_{3} V_{DRM};$	$T_{VJ} = 125^{\circ}C$		0.2 10	V mA	
I,	t _p = 10 μs; I _G = 0.45 A; di _G /dt = 0.45 A/μs	$T_{vJ} = 25^{\circ}C$		450	mA	
I _H	$V_{D} = 6 V; R_{GK} = \infty;$	$T_{VJ} = 25^{\circ}C$		200	mA	
t _{gd}	$V_{\rm D} = \frac{1}{2}V_{\rm DRM}$ I_G = 0.45 A; di _G /dt = 0.45 A/µs	$T_{vJ} = 25^{\circ}C$		2	μs	
$\mathbf{R}_{ ext{thJC}}$ $\mathbf{R}_{ ext{thCH}}$	per thyristor; DC current		0.12	0.50	K/W K/W	
${f R}_{thJC} \ {f R}_{thCH}$	per module		0.06	0.25	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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<u>25.332.4353.1</u> <u>25.350.1653.0</u> <u>25.350.2453.0</u>	25.352.1453.0	25.352.1653.0	25.352.2453.0	25.352.5453.1	25.522.3353.0	25.602.4053.0
25.640.5053.0						