

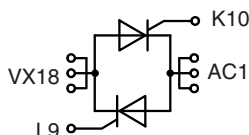
AC Controller Modules

ECO-PAC 2

$I_{RMS} = 230 \text{ A}$
 $V_{RRM} = 800 - 1800 \text{ V}$

Preliminary Data

V_{RSM} V_{DSM} V	V_{RRM} V_{DRM} V	Type
900	800	MMO230-08io7
1300	1200	MMO230-12io7
1500	1400	MMO230-14io7
1700	1600	MMO230-16io7
1900	1800	MMO230-18io7



Symbol	Conditions	Maximum Ratings
I_{RMS}	$T_C = 85^\circ\text{C}$; 50-400 Hz (per single controller)	230 A
I_{TRMS}		180 A
I_{TAVM}	$T_C = 85^\circ\text{C}$; 180° sine	105 A
I_{TSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0 \text{ V}$; $t = 10 \text{ ms}$ (50 Hz), sine	2250 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	2400 A
	$T_{VJ} = 125^\circ\text{C}$; $V_R = 0 \text{ V}$; $t = 10 \text{ ms}$ (50 Hz), sine	2000 A
	$t = 8.3 \text{ ms}$ (60 Hz), sine	2150 A
I^2dt	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0 \text{ V}$; $t = 10 \text{ ms}$ (50 Hz), sine	25300 A^2s
	$t = 8.3 \text{ ms}$ (60 Hz), sine	23900 A^2s
	$T_{VJ} = 125^\circ\text{C}$; $V_R = 0 \text{ V}$; $t = 10 \text{ ms}$ (50 Hz), sine	20000 A^2s
	$t = 8.3 \text{ ms}$ (60 Hz), sine	19100 A^2s
$(di/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}$; $f = 50 \text{ Hz}$; $t_p = 200 \mu s$; $V_D = \frac{2}{3}V_{DRM}$; $I_G = 0.45 \text{ A}$; $di_G/dt = 0.45 \text{ A}/\mu s$; repetitive, $I_T = 250 \text{ A}$	150 $A/\mu s$
	non repetitive, $I_T = I_{TAVM}$	500 $A/\mu s$
$(dv/dt)_{cr}$	$T_{VJ} = 125^\circ\text{C}$; $V_{DR} = \frac{2}{3}V_{DRM}$; $R_{GK} = \infty$, method 1 (linear voltage rise)	1000 $V/\mu s$
P_{GM}	$T_{VJ} = 125^\circ\text{C}$; $t_p = 30 \text{ ms}$	$\leq 10 \text{ W}$
	$I_T = I_{TAVM}$; $t_p = 300 \text{ ms}$	$\leq 5 \text{ W}$
P_{GAVM}		0.5 W
V_{RGM}		10 V
T_{VJ}		-40 ... +125 $^\circ\text{C}$
T_{VJM}		125 $^\circ\text{C}$
T_{stg}		-40 ... +125 $^\circ\text{C}$
V_{ISOL}	50/60 Hz, RMS; $I_{ISOL} \leq 1 \text{ mA}$; $t = 1 \text{ min}$	3000 $\text{V} \sim$
	$t = 1 \text{ s}$	3600 $\text{V} \sim$
M_d	Mounting torque (M4)	1.5 - 2.0 Nm
		14 - 18 lb.in.
Weight	typ.	26 g

Data according to IEC 60747 refer to a single thyristor unless otherwise stated

IXYS reserves the right to change limits, test conditions and dimensions.

20080806a

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

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