

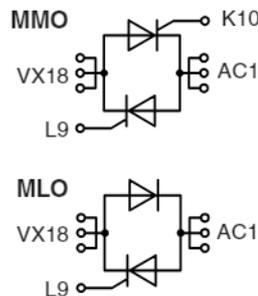
AC Controller Modules

ECO-PAC 2

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

Preliminary Data

V_{RSM}	V_{RRM}	Type
V_{DSM}	V_{DRM}	
V	V	
900	800	MMO230 -08io7 MLO230 -08io7
1300	1200	MMO230 -12io7 MLO230 -12io7
1500	1400	MMO230 -14io7 MLO230 -14io7
1700	1600	MMO230 -16io7 MLO230 -16io7
1900	1800	MMO230 -18io7 MLO230 -18io7



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

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

