

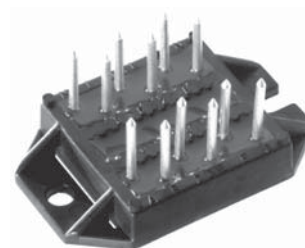
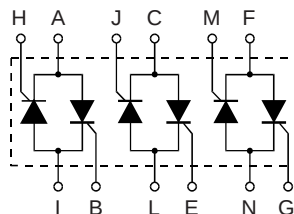
AC Controller Modules

$$I_{RMS} = 3 \times 35 \text{ A}$$

$$V_{RRM} = 600-1200 \text{ V}$$

Preliminary data

V_{RSM}	V_{RRM}	Type
V_{DSM}	V_{DRM}	
V	V	
700	600	VWO 35-06ho7
900	800	VWO 35-08ho7
1300	1200	VWO 35-12ho7



Symbol	Conditions	Maximum Ratings	
I_{RMS}	$T_C = 85^\circ\text{C}$, (per phase)	35	A
I_{TAVM}	$T_C = 85^\circ\text{C}$; (180° sine ; per thyristor)	16	A
I_{TSM}	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	200 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	210 A
	$T_{VJ} = T_{VJM}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	180 A
		$t = 8.3 \text{ ms}$ (60 Hz), sine	190 A
I^2t	$T_{VJ} = 45^\circ\text{C}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	200 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	150 A ² s
	$T_{VJ} = T_{VJM}$; $V_R = 0$	$t = 10 \text{ ms}$ (50 Hz), sine	160 A ² s
		$t = 8.3 \text{ ms}$ (60 Hz), sine	150 A ² s
$(di/dt)_{cr}$	$T_{VJ} = T_{VJM}$; $f = 50\text{Hz}$, $t_p = 200\mu\text{s}$	repetitive, $I_T = 20 \text{ A}$	100 A/ μs
	$V_D = \frac{2}{3} V_{DRM}$; $I_G = 0.15 \text{ A}$	non repetitive, $I_T = I_{TAVM}$	500 A/ μs
	$di_G/dt = 0.15 \text{ A}/\mu\text{s}$		
$(dv/dt)_{cr}$	$T_{VJ} = T_{VJM}$; $R_{GK} = \infty$; method 1 (linear voltage rise)	$V_{DR} = \frac{2}{3} V_{DRM}$	500 V/ μs
V_{RGM}		10	V
P_{GM}	$T_{VJ} = T_{VJM}$	$t_p = 30 \mu\text{s}$	$\leq 5 \text{ W}$
	$I_T = I_{TAVM}$	$t_p = 300 \mu\text{s}$	$\leq 2.5 \text{ W}$
P_{GAVM}			0.5 W
T_{VJ}		-40...+125	°C
T_{VJM}		125	°C
T_{stg}		-40...+125	°C
V_{ISOL}	50/60 Hz, RMS	$t = 1 \text{ min}$	2500 V~
	$I_{ISOL} \leq 1 \text{ mA}$	$t = 1 \text{ s}$	3000 V~
M_d	Mounting torque (M4)	1.5 - 2	Nm
		14 - 18	lb.in.
Weight	typ.	18	g

Features

- Thyristor controller for AC (circuit W3C acc. to IEC) for mains frequency
- Soldering connections for PCB mounting
- Isolation voltage 3000 V~
- Planar passivated chips

Applications

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

Advantages

- Easy to mount with two screws
- Space and weight savings
- Improved temperature and power cycling

Data according to IEC 60747 refer to a single thyristor/diode unless otherwise stated.
IXYS reserves the right to change limits, test conditions and dimensions

Dimensions in mm (1 mm = 0.0394")

