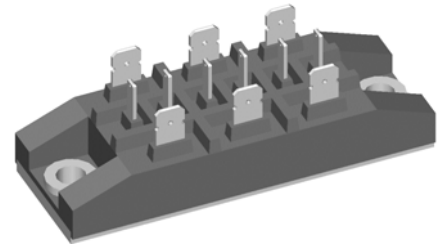
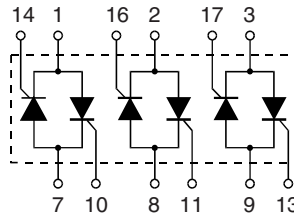


# Three Phase AC Controller Modules

Preliminary data

$V_{RSM}$ $V_{DSM}$ V	$V_{RRM}$ $V_{DRM}$ V	Type
1200	1200	VWO 36-12io7
1400	1400	VWO 36-14io7
1600	1600	VWO 36-16io7



Symbol	Conditions	Maximum Ratings	
$I_{RMS}$	$T_K = 85^\circ\text{C}$ , 50 - 400 Hz (per phase)	39	A
$I_{TRMS}$	$T_{VJ} = T_{VJM}$	28	A
$I_{TAVM}$	$T_K = 85^\circ\text{C}$ (180° sine)	18	A
$I_{TSM}$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine	320 A
		t = 8.3 ms (60 Hz), sine	350 A
$I^2t$	$T_{VJ} = 45^\circ\text{C}$ $V_R = 0$	t = 10 ms (50 Hz), sine	500 A <sup>2</sup> s
		t = 8.3 ms (60 Hz), sine	520 A <sup>2</sup> s
$(di/dt)_{cr}$	$T_{VJ} = T_{VJM}$ f = 50 Hz, t <sub>p</sub> = 200 μs $V_D = \frac{2}{3} V_{DRM}$ $I_G = 0.3 \text{ A}$ di <sub>G</sub> /dt = 0.3 A/μs	repetitive, I <sub>T</sub> = 20 A	150 A/μs
		non repetitive, I <sub>T</sub> = I <sub>TAVM</sub>	500 A/μs
$(dv/dt)_{cr}$	$T_{VJ} = T_{VJM}$ $R_{GK} = \infty$ ; method 1 (linear voltage rise)	$V_{DR} = \frac{2}{3} V_{DRM}$	1000 V/μs
$P_{GM}$	$T_{VJ} = T_{VJM}$ I <sub>T</sub> = I <sub>TAVM</sub>	t <sub>p</sub> = 30 μs	10 W
		t <sub>p</sub> = 300 μs	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 <sub>ISOL</sub> ≤ 1 mA	t = 1 min	2500 V~
		t = 1 s	3000 V~
$M_d$	Mounting torque (M5) (10-32 UNF)	5 ± 15%	Nm
		44 ± 15%	lb.in.
<b>Weight</b>	typ.	110	g

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

## Features

- Thyristor controller for AC (circuit W3C acc. to IEC) for mains frequency
- Package with metal base plate
- Isolation voltage 3000 V~
- Planar passivated chips
- UL applied
- ¼" fast-on power terminals

## 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 capability
- High power density
- Light weight and compact

## Dimensions in mm (1 mm = 0.0394")

