Three Phase AC Controller Modules

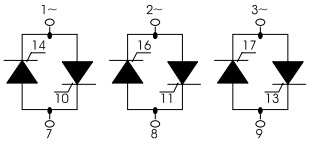
PSUT 60

I_{RMS} = 3 x 60 A
V_{RRM} = 400-1600 V

Preliminary Data Sheet

V_{RSM} V_{DSM}	V_{RRM} V_{DRM}	Type
500	400	PSUT 60/04
900	800	PSUT 60/08
1300	1200	PSUT 60/12
1500	1400	PSUT 60/14
*1700	*1600	PSUT 60/16

* Delivery on request



Symbol	Test Conditions			Maximum Ratings	
I_{RMS}	T_C = 85 °C, 50-400 Hz (per phase)			60	A
I_{TRMS}	$T_{VJ} = T_{VJM}$			43	A
I_{TAVM}	T_C = 85 °C	180° sine		27	A
I_{TSM}	T_{VJ} = 45°C	t = 10 ms	(50 Hz), sine	550	A
	V_R = 0	t = 8.3 ms	(60 Hz), sine	600	A
	$T_{VJ} = T_{VJM}$	t = 10 ms	(50 Hz), sine	500	A
	V_R = 0	t = 8.3 ms	(60 Hz), sine	550	A
$\int i^2 dt$	T_{VJ} = 45°C	t = 10 ms	(50 Hz), sine	1520	A^2 s
	V_R = 0	t = 8.3 ms	(60 Hz), sine	1520	A^2 s
	$T_{VJ} = T_{VJM}$	t = 10 ms	(50 Hz), sine	1250	A^2 s
	V_R = 0	t = 8.3 ms	(60 Hz), sine	1250	A^2 s
$(di/dt)_{cr}$	$T_{VJ} = T_{JVM}$	repetitive, I_T = 25 A		150	A/µs
	f = 50Hz, t_P = 200µs				
	V_D = 2/3 V_{DRM}				
	I_G = 0.45 A	non repetitive, $I_T = I_{TAVM}$		500	A/µs
	di_G/dt = 0.45 A/µs				
$(dv/dt)_{cr}$	$T_{VJ} = T_{VJM}$	V_{DR} = 2/3 V_{DRM}		1000	V/µs
	R_{GK} = ∞, method 1 (linear voltage rise)				
P_{GM}	$T_{VJ} = T_{VJM}$	t_P = 30µs		10	W
	$I_T = I_{TAVM}$	t_P = 300µs		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	t = 1 min		2500	V ~
	$I_{ISOL} \leq$ 1 mA	t = 1 s		3000	V ~
M_d	Mounting torque		(M5)	2-2.5	Nm
Weight	typ.			100	g

Features

- Thyristor controller for AC (circuit W3C acc. to IEC) for mains frequency
- Isolation voltage 3000 V~
- Planar glasspassivated chips
- Package with metal base plate
- UL registered E 148688

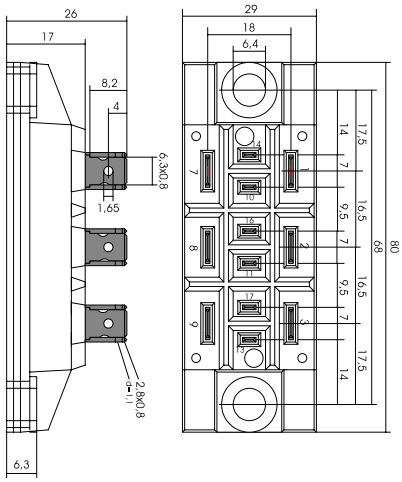
Applications

- Switching and control of 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 capability
- High power density

Package, stil and outline
Dimensions in mm (1mm = 0.0394“)



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