

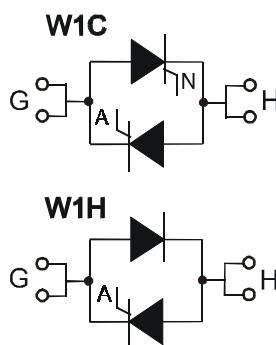
Single Phase AC Controller Modules

PSW1C110
PSW1H110

$I_{RMS} = 112 \text{ A}$
 $V_{RRM} = 600-1400 \text{ V}$

Preliminary Data Sheet

V_{RSM} V_{DSM} (V)	V_{RRM} V_{DRM} (V)	Type	
700	600	PSW1C 110/06	PSW1H 110/06
900	800	PSW1C 110/08	PSW1H 110/08
1300	1200	PSW1C 110/12	PSW1H 110/12
1500	1400	PSW1C 110/14	PSW1H 110/14



Symbol	Test Conditions	Maximum Ratings	
I_{RMS}	$T_C = 85 \text{ }^\circ\text{C}$; 50-400 Hz (per single controller)	112	A
I_{TRMS}		81	A
I_{TAVM}	$T_C = 85 \text{ }^\circ\text{C}$; 180° sine	51	A
I_{TSM}	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	1000	A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	1070	A
	$T_{VJ} = 125 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	870	A
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	930	A
$\int i^2 dt$	$T_{VJ} = 45 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	5000	A ² s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	4750	A ² s
	$T_{VJ} = 125 \text{ }^\circ\text{C}$ t = 10 ms (50 Hz), sine	3780	A ² s
	$V_R = 0$ t = 8.3 ms (60 Hz), sine	3590	A ² s
$(di/dt)_{cr}$	$T_{VJ} = 125 \text{ }^\circ\text{C}$ repetitive, $I_T = 50 \text{ A}$ f=50Hz, $t_p=200\mu\text{s}$ $V_D=2/3V_{DRM}$	100	A/ μs
	$I_G=0.45 \text{ A}$ non repetitive, $I_T = I_{TAVM}$ $di_G/dt=0.45\text{A}/\mu\text{s}$	500	A/ μs
$(dv/dt)_{cr}$	$T_{VJ} = 125 \text{ }^\circ\text{C}$ $V_D=2/3V_{DRM}$ $R_{GK} = \infty$, method 1 (linear voltage rise)	1000	V/ μs
P_{GM}	$T_{VJ} = 125 \text{ }^\circ\text{C}$ $t_p=30\mu\text{s}$	≤ 10	W
	$I_T = I_{TAVM}$ $t_p=300\mu\text{s}$	≤ 5	W
P_{GAVM}		0.5	W
V_{RGM}		10	V
T_{VJ}		-40... + 150	°C
T_{VJM}		150	°C
T_{stg}		-40... + 125	°C
V_{ISOL}	50/60 Hz, RMS t = 1 min	2500	V~
	$I_{ISOL} \leq 1 \text{ mA}$ t = 1 s	3000	V~
M_d	Mounting torque (M4)	1.5 - 1.8	Nm
		14 - 16	lb.in.
Weight	typ.	16	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
- UL registered, E 148688

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 capability
- High power density
- Small and light weight

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

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