

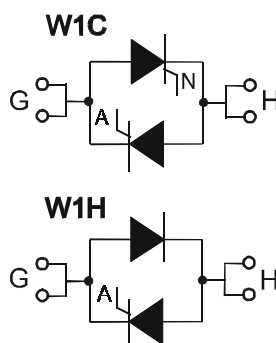
Single Phase AC Controller Modules

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, $t_p=200\mu\text{s}$	100	A/ μs
	$V_D = 2/3V_{DRM}$ $I_G = 0.45 \text{ A}$ non repetitive, $I_T = I_{TAVM}$ $di_G/dt = 0.45 \text{ A}/\mu\text{s}$	500	A/ μs
	$T_{VJ} = 125 \text{ }^\circ\text{C}$ $V_D = 2/3V_{DRM}$ $R_{GK} = \infty$, 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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for Thyristor Surge Protection Devices (TSPD) category:

Click to view products by Powersem manufacturer:

Other Similar products are found below :

[MHC-150-16](#) [MHC-170-16](#) [MHC-260-16](#) [MHC-300-16](#) [MHC-500-18](#) [SKKH 57/16E](#) [SKKH 72/08E](#) [SK20NHMH10](#) [P2600SDLRP](#) [SKKH 162/18E](#) [SKKH 27/12E](#) [SKKH 280/20E H4](#) [SKKH 72/20E H4](#) [TD210N16KOF](#) [TD400N26KOF](#) [TD570N16KOFHPSA2](#) [SKKH92/16E](#) [SKKH 92/18E](#) [SKKH 172/16E](#) [SKKH 106/16E](#) [TISP4A250H3BJR-S](#) [TISP4A270H3BJR-S](#) [TISP4350J3BJR-S](#) [TISP4200H3BJR-S](#) [TISP4240L3AJR-S](#) [TISP7082F3DR-S](#) [B1101UALTP](#) [P1804UCMCLTP](#) [T10A240](#) [P0080S4BLRP](#) [P0080SB](#) [P0300EALRP1](#) [P3100Q12BLRP](#) [P2300Q22CLRP](#) [P0640SCLRP-N1](#) [P0720SALRP](#) [P0720SCMCLRP](#) [P0900SCLRP](#) [P0900SCMCLRP](#) [A2106UC6LRP](#) [P1104UCLRP](#) [P1100EALRP1](#) [P1100SALRP](#) [P1100SBLRP](#) [P1100SCLRP](#) [P1100SCMCLRP](#) [P1300SALRP](#) [P1300SBLRP](#) [P1300SCMCLRP](#) [P1301CB2LRP](#)