

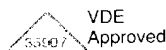
CLASS 6
AC CONTROLLED INPUT
AC SCR OUTPUT
SOLID STATE
RELAYS

Meets UL 1950 (IEC 950) standard
for usage in SEL V (safe extra low
voltage) circuits

HIGH RELIABILITY TYPE
AC CONTROLLED
90-280 VAC or 80-140 VDC INPUT
50/60 Hz AC OUTPUT

High Transient Capability—Single out-
put features back to back SCR's and
internally mounted RC (snubber) network
for high dv/dt applications.

Photo-Isolated, Zero Switching. Optically
coupled for 4000 VAC isolation between
input and output and RFI suppression.



VDE
Approved



UL Recognized
File No. E62636



CSA Certified
File No. LR81689

All models conform to VDE 0160,
VDE 0110 Group C,
and VDE 0411 Class 1.

STOCK NUMBERS				W6110 ASX-1	W6125 ASX-1	W6140 ASX-1	W6202 ASX-1	W6210 ASX-1	W6225 ASX-1	W6240 ASX-1
INPUT CHARACTERISTICS										
Input Voltage Range (over operating temperature range)				90 to 280 VAC (Also can be used with 80 to 140 VDC)						
Maximum Pickup Voltage (over operating temperature range)				90 VAC (80 VDC)						
Minimum Dropout Voltage (over operating temperature range)				10 VAC (10 VDC)						
Input Impedance				60,000 ohms minimum						
Reverse Polarity Protected				Not Applicable						
Input Filtered for transients less than one millisecond.				Yes						
Response Time				10mS Turn On 40mS Turn Off						
OUTPUT CHARACTERISTICS										
Nominal Off State Voltage V_D (RMS)				120			240			
Maximum Off State Voltage $V_{D\text{ MAX}}$ (RMS)				140			280			
Minimum Off State Voltage $V_{D\text{ MIN}}$ (RMS)				20			40			
Non-Repetitive Peak Voltage V_{DSM} (Blocking Voltage)				300			500			
Maximum Rate of Rise of Off State Voltage dv/dt				500 Volts per microseconds			200 V	500 Volts per microsecond		
Rated Load Current I_T (RMS)*				10.0	25.0	40	2.5	10.0	25.0	40
U/L Incandescent Lamp Ampere Rating				8.0	16.0	30	2.0	8.0	16.0	30
U/L Motor Load Ampere Rating				4.5	8.0	14	1.0	4.5	8.0	14
Minimum Load Current $I_{T\text{ MIN}}$ (RMS) to maintain "On"				50 ma						
Non-Repetitive Surge Current $I_{T\text{ MIN}}$ (one Cycle Surge)				120	250	625	22.5	120	250	625
Maximum RMS Overload current for 1 second				24	40	80	5	24	40	80
Maximum Off State Leakage current				8 ma			10 ma			
Maximum RMS On-State Voltage V_T (RMS) Maximum Voltage drop across relay output @ rated current				1.6	1.6	1.6	3.5	1.6	1.6	1.6
MISCELLANEOUS CHARACTERISTICS										
Max I^2T For Fusing (8.3ms) $A^2\text{ sec}$				60	260	1620	2.1	60	260	1620
Thermal Resistance Junction To Case (T_J , Max.= 115°C) °c/w				1.48	1.02	0.63	8.5	1.48	1.02	0.63
Suggested Heat Sink				16-790 or 16-793						
Dielectric Strength V_{ISO} (Input-Output Isolation)				4,000 VAC						
Insulation Resistance R_{ISO} @ 500VDC				$10^{10}\ \Omega$						
Operating temperature Range				-30°C to +80°C						
Storage temperature Range				-30°C to +100°C						
Weight				4 oz. (113.4 g)						

*All current ratings are based on use of suitable thermally conductive compound (e.g. silicone grease between the SSR mounting base and surface of suitable heat sink).