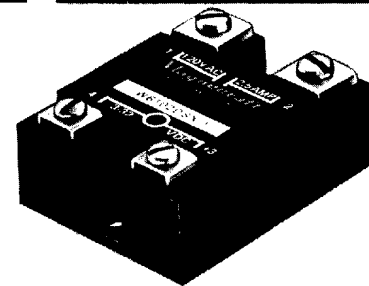


HIGH RELIABILITY TYPE

3-32 VDC INPUT
50/60 Hz AC OUTPUT

High Transient Capability—Single output features back to back SCR's an internal 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.

CLASS 6
DC CONTROLLED INPUT
AC SCR OUTPUT
SOLID STATE RELAYS

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

VDE
ApprovedUL Recognized
File No. E62636CSA Certified
File No. LR81689

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

NEW!

STOCK NUMBERS	W6102 DSX-1	W6110 DSX-1	W6125 DSX-1	W6140 DSX-1	W6202 DSX-1	W6210 DSX-1	W6225 DSX-1	W6240 DSX-1	W6275 DSX-1	
INPUT CHARACTERISTICS										
Input Voltage Range (over operating temperature range)	3 to 32 Volts DC									
Maximum Pickup Voltage (over operating temperature range)	3 Volts DC									
Minimum Dropout Voltage (over operating temperature range)	1 Volts DC									
Input Impedance	1500 ohms minimum									
Reverse Polarity Protected	Yes									
Input Filtered for transients less than one millisecond.	Yes									
Response Time	1/2 Cycle Max.									
OUTPUT CHARACTERISTICS										
Nominal Off State Voltage V_D (RMS)	400				600					
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	200	500 Volts per microsec.			200	500 Volts per microsec.				
Rated Load Current I_T (RMS)*	2.5	10.0	25.0	40	40	10.0	25.0	40	75	
U/L Incandescent Lamp Ampere Rating	2.0	8.0	16.0	30	2.0	8.0	16.0	30	39	
U/L Motor Load Ampere Rating	1.0	4.5	8	14	1.0	4.5	8	14	25	
Minimum Load Current $I_{T\text{ MIN}}$ (RMS) to maintain "On"	50 ma.									
Non-Repetitive Surge Current I_{TSM} (one Cycle Surge)	22.5	120	250	625	22.5	120	250	625	1000	
Maximum RMS Overload current for 1 second	5	24	40	80	5	24	40	80	150	
Maximum Off State Leakage current I_D (RMS)	8 ma				10 ma					
Maximum RMS On-State Voltage V_T (RMS) Maximum Voltage drop across relay output @ rated current	3.5	1.6			3.5	1.6				1.8
MISCELLANEOUS CHARACTERISTICS										
Max I ² T For Fusing (8-3ms) A ² sec	2.1	60	260	1620	2.1	60	260	1620	4180	
Thermal Resistance Junction To Case (T_J , Max. = 115°C) °C/W	8.5	1.78	1.02	0.63	8.5	1.78	1.02	0.63	0.18	
Suggested Heat Sink	16-790 or 16-793								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	-40°C to +120°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 mounting surface of suitable heat sink).

