

FEATURES

BENEFITS

SOLID STATE CIRCUITRY

OPTICALLY COUPLED CIRCUIT

INTERNAL SNUBBER

RED L. E. D. STATUS LAMP

CLEAR PLASTIC COVER

NO MOVING PARTS

ISOLATE INPUT FROM OUTPUT

PROTECTS RELAY FROM TRANSIENTS

VERIFY PRESENCE OF INPUT VOLTAGE

PROTECTION FROM ACCIDENTAL CONTACT



COMPLIES WITH REQUIREMENTS OF

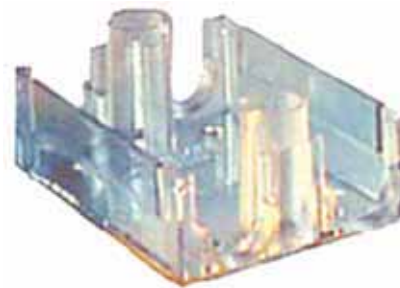
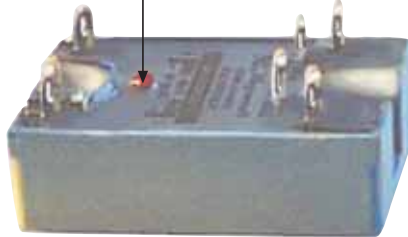
- * IEC STANDARDS 947-4-1 AND 947-5-1 LOW VOLTAGE DIRECTIVE
- * IEC = INTERNATIONAL ELECTROTECHNICAL COMMISSION
- * CE TESTING AND EVALUATION PERFORMED BY THE UNDERWRITERS LABORATORIES AS A THIRD PARTY PARTICIPANT

MANUFACTURED
UNDER ISO 9002

ALL CURRENT RATINGS ON THE FOLLOWING PAGES
 ARE BASED ON USE OF A SUITABLE THERMALLY
 CONDUCTIVE COMPOUND
 (E.G. SILICONE GREASE BETWEEN THE SSR
 MOUNTING BASE AND THE MOUNTING SURFACE
 OF A SUITABLE HEAT SINK).



RED L. E. D.
STATUS LAMP



SAFETY COVER STANDARD
ON ALL MODELS EXCEPT
DUAL OUTPUT

INPUT & OUTPUT SCREW SIZE

UP TO 40 AMP	
INPUT	OUTPUT
M 3.5	M 4
ABOVE 40 AMP	
M 3.5	M 6

FAMILY	INPUT-CONTROL	OUTPUT-LOAD	CONTROL-METHOD
ASX	AC	AC	SCRs
DSX	DC	AC	SCRs
DTX	DC	AC	TRIAC
DDX	DC	DC	MOSFET



6 SERIES SOLID STATE RELAYS



**ASX - AC/AC, DSX - DC/AC
SPST, 10 TO 125 AMPS**

GENERAL SPECIFICATIONS (@ 25°C)

INPUT CHARACTERISTICS													
Style:	ASX					DSX							
Control Voltage Range:	90 - 280 VAC (50/60 Hz)					3 - 32 VDC							
Typical Input Current:	20 mA @ 240 VAC					16 mA @ 30 VDC							
Must Release Voltage:	10 VAC					1 VDC							
Maximum. Reverse Control Voltage:	N / A					YES							
OUTPUT CHARACTERISTICS													
Style:	W62					W64					W66		
Load Voltage Range (50/60 Hz):	40 - 280 VAC					48 - 480 VAC					48 - 660 VAC		
Rated Load Current:	10 Amp	25 Amp	40 Amp	50 Amp	75 Amp	10 Amp	25 Amp	40 Amp	50 Amp	75 Amp	90 Amp	125 Amp	
Maximum Off-State Voltage dv/dt:	200 uS	500 uS	500 uS	500 uS	500 uS	200 uS	300 uS	500 uS	500 uS	500 uS	1000 uS	1000 uS	
Minimum Load Current:	50 mA	120 mA	250 mA	250 mA	250 mA	50 mA	250 mA	250 mA	250 mA	250 mA	500 mA	500 mA	
Non-Repetitive Surge Current (1 Cycle):	83 A	250 A	625 A	520 A	1150 A	83 A	250 A	625 A	520 A	1150 A	1350 A	1800 A	
Maximum off State Leakage Current (Rms):	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA	5 mA	5 mA	
Typical On-State Voltage Drop (Rms):	1.6 VAC	1.6 VAC	1.6 VAC	1.8 VAC	1.8 VAC	1.6 VAC	1.6 VAC	1.6 VAC	1.8VAC	1.8 VAC	1.8 VAC	1.8 VAC	
Maximum I ² T for Fusing (A ² Sec):	83	250	625	1250	5000	72	312	1250	1035	2600	3500	5800	
Suggested Heatsink °C/W:	3.2	0.5	0.2	0.014	0.14	3.2	0.5	0.2	0.14	0.14	0.14+fan	0.14+fan	
Maximum Turn - On Time:	8.3 mS												
Maximum Turn - Off Time:	8.3 mS												
MISCELLANEOUS CHARACTERISTICS													
Dielectric Strength (Input/Output/Base):	4000 V rms												
Insulation Resistance:	100 megohms minimum @ 500 VDC												
Operating Temperature Range:	-40 °C to +80 °C												
Storage Temperature Range:	-40 °C to +100 °C												
Weight:	10 amps to 50 amps: 100 grams approx. 75 amps to 125 amps: 250 grams approx.												



ORDERING CODE

6 **2** **10** **ASX-** **1**

CLASS:

LOAD VOLTAGE RANGE:

40 - 280 VAC: CODE 2
48 - 480 VAC: CODE 4
48 - 600 VAC: CODE 6

RATED LOAD CURRENT:

10 AMPS, 25 AMPS, 40 AMPS, 50 AMPS,
75 AMPS, 90 AMPS, 125 AMPS

INPUT/OUTPUT STYLE:

ASX: AC- INPUT / AC OUTPUT
DSX: DC- INPUT / AC OUTPUT

OPTIONS:

-1 = ZERO CROSS, NORMALLY OPEN
-2 = RANDOM TURN ON, NORMALLY OPEN
-4 = RANDOM TURN ON, NORMALLY CLOSED

STANDARD PART NUMBERS		RATED LOAD CURRENT
ASX	DSX	
W6210ASX-1	W6210DSX-1	10 AMPS
W6225ASX-1	W6225DSX-1	25 AMPS
W6240ASX-1	W6240DSX-1	40 AMPS
W6250ASX-1	W6250DSX-1	50 AMPS
W6275ASX-1	W6275DSX-1	75 AMPS
W6410ASX-1	W6410DSX-1	10 AMPS
W6425ASX-1	W6425DSX-1	25 AMPS
W6440ASX-1	W6440DSX-1	40 AMPS
W6450ASX-1	W6450DSX-1	50 AMPS
W6475ASX-1	W6475DSX-1	75 AMPS
W6690ASX-1	W6690DSX-1	90 AMPS
W66125ASX-1	W66125DSX-1	125 AMPS

6 SERIES SOLID STATE RELAYS

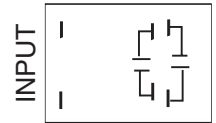


UL US
UL Recognized
File No. E52197



DTX - DC/AC SPST & DPST, 10 TO 40 AMPS

WIRING DIAGRAM
(VIEWED FROM PIN END)



DTX - 3

GENERAL SPECIFICATIONS (@ 25°C)

INPUT CHARACTERISTICS

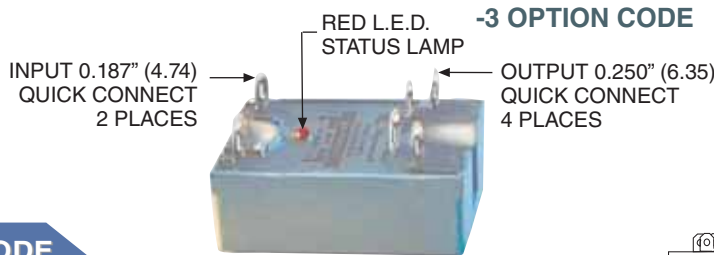
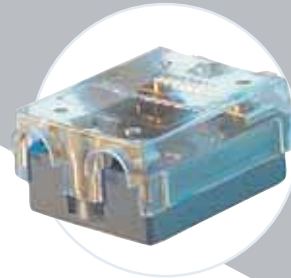
Style:	DTX
Control Voltage Range:	3 - 32 VDC
Typical Input Current:	2 mA (62 series), 16 mA (64 series)
Must Release Voltage:	1 VDC
Maximum Reverse Control Voltage:	YES

OUTPUT CHARACTERISTICS

Style:	W62			W64		
	24 - 280 VAC			48 - 480 VAC		
Load Voltage Range (50/60 Hz):	10 Amp	25 Amp	40 Amp	10 Amp	25 Amp	40 Amp
Rated Load Current:	250 uS	250 uS	250 uS	200 uS	250 uS	250 uS
Maximum Off-State Voltage dv/dt:	50 mA	120 mA	50 mA	50 mA	20 mA	250 mA
Minimum Load Current:	100 A	250 A	250 A	100 A	250 A	250 A
Non -Repetitive Surge Current (1 Cycle):	10 mA	10 mA	10 mA	10 mA	10 mA	10 mA
Maximum Off State Leakage current (Rms):	1.6 VAC	1.6 VAC	1.6 VAC	1.6 VAC	1.6 VAC	1.6 VAC
Typical On-State Voltage Drop (Rms):	52	300	438	35	200	250
Maximum I ² T for Fusing (A ² Sec):	3.2	0.5	1.4	3.2	0.5	0.2
Suggested Heatsink °C/W:	Maximum Turn - On Time: 8.3 mS					
Maximum Turn - On Time:	Maximum Turn - Off Time: 8.3 mS					

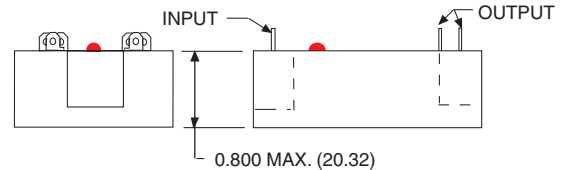
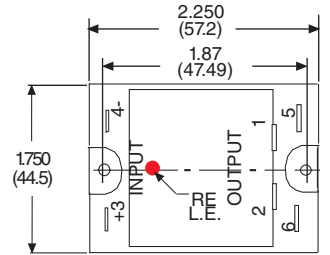
MISCELLANEOUS CHARACTERISTICS

Dielectric Strength (Input/Output/Base):	4000 V rms
Insulation Resistance:	100 megohms minimum @ 500 VDC
Operating Temperature Range:	-40 °C to +80 °C
Storage Temperature Range:	-40 °C to +100 °C
Weight:	100 grams approx.



OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



ORDERING CODE

6 2 10 DTX- 1

CLASS:

LOAD VOLTAGE RANGE:
24 - 280 VAC: CODE 2
48 - 480 VAC: CODE 4

RATED LOAD CURRENT:
10 AMPS, 25 AMPS, 40 AMPS,

INPUT/OUTPUT STYLE:
DTX: DC - INPUT / AC OUTPUT

OPTIONS:
-1 = ZERO CROSS, NORMALLY OPEN
-2 = RANDOM TURN ON, NORMALLY OPEN
-3 = DOUBLE POLE, RANDOM TURN ON, NORMALLY OPEN
-4 = RANDOM TURN ON, NORMALLY CLOSED

STANDARD PART NUMBERS	RATED LOAD CURRENT
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*W6210DTX-1	10 AMPS
*W6225DTX-1	25 AMPS
*W6240DTX-1	40 AMPS
*W6410DTX-1	10 AMPS
*W6425DTX-1	25 AMPS
*W6440DTX-1	40 AMPS
W6210DTX-3	10 AMPS
W6210DTX-4	10 AMPS
*W6225DTX-4	25 AMPS
W6240DTX-4	40 AMPS



*CE Approved