

6 SERIES SOLID STATE RELAY

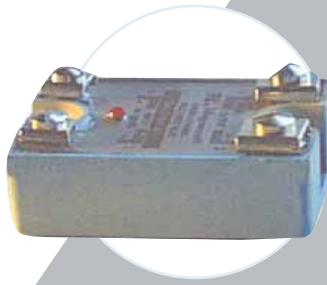


DDX - DC/DC, SPST, 12 TO 40 AMPS

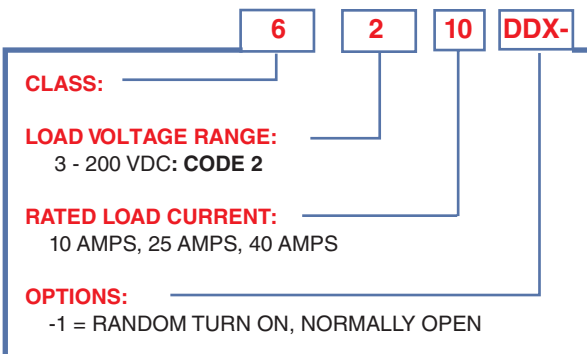


GENERAL SPECIFICATIONS (@ 25°C)

INPUT CHARACTERISTICS		DDX	
Style:		3.5 - 32 VDC	
Control Voltage Range:		16 mA @ 30 VDC	
Typical Input Current:		1 VDC	
Must Release Voltage:		NO	
Maximum. Reverse Control Voltage:			
OUTPUT CHARACTERISTICS		W62	
Style:		3 - 200 VDC	
Load Voltage Range:		3 - 200 VDC	
Rated Load Current:		12 Amp	25 Amp 40 Amp
Minimum Load Current:		20 mA	20 mA 20 mA
Non-Repetitive Surge Current (1 Second):		27 A	50 A 90 A
Maximum Off State Leakage Current (Rms):		8 mA	8 mA 8 mA
Typical On-State Voltage Drop (Rms):		1.6 VAC	1.6 VAC 1.6 VAC
Suggested Heatsink °C/W:		1.0	0.5 0.14
Maximum Turn - On Time:		600 uS	
Maximum Turn - Off Time:		2.6 mS	
MISCELLANEOUS CHARACTERISTICS			
Dielectric Strength (Input/Output/Base):		2500 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.	



ORDERING CODE



STANDARD PART NUMBERS	RATED LOAD CURRENT
W6212DDX-1	12 AMPS
W6225DDX-1	25 AMPS
W6240DDX-1	40 AMPS

6 SERIES SOLID STATE RELAYS

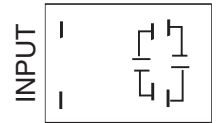


UL US
UL Recognized
File No. E52197



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

WIRING DIAGRAM
(VIEWED FROM PIN END)



DTX - 3

GENERAL SPECIFICATIONS (@ 25°C)

INPUT CHARACTERISTICS

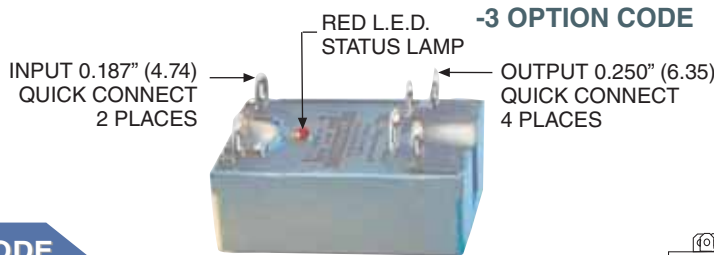
Style:	DTX
Control Voltage Range:	3 - 32 VDC
Typical Input Current:	2 mA (62 series), 16 mA (64 series)
Must Release Voltage:	1 VDC
Maximum Reverse Control Voltage:	YES

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					

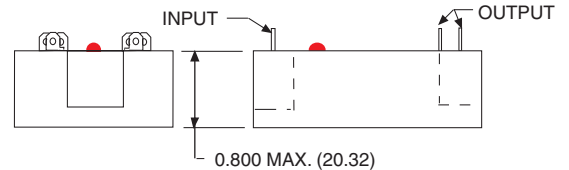
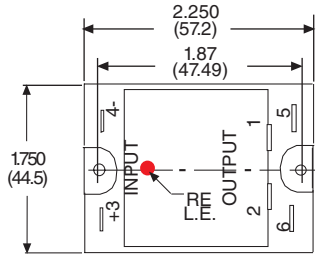
MISCELLANEOUS CHARACTERISTICS

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
*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

DPDT, 10 AMPS

WIRING DIAGRAM (VIEWED FROM PIN END)



UL Recognized
File No. E43641



LISTED 367G
IND. CONT. EQ.

WHEN USED WITH
SOCKETS:
70-464-1 (8 PIN)
70-465-1 (11 PIN)



COMPLIES WITH REQUIREMENTS OF

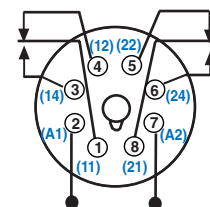
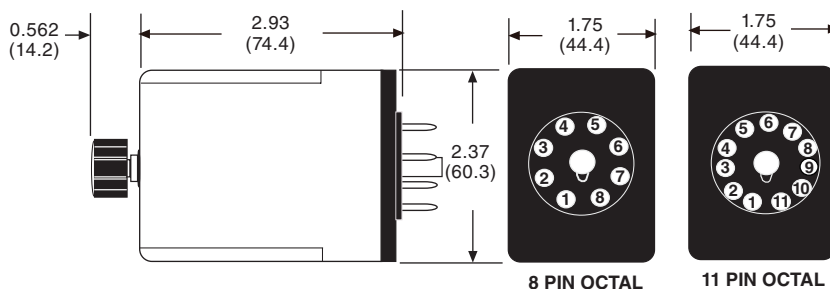
* IEC STANDARDS 947-4-1 AND
947-5-1 LOW VOLTAGE DIRECTIVE

* IEC - INTERNATIONAL
ELECTROTECHNICAL COMMISSION

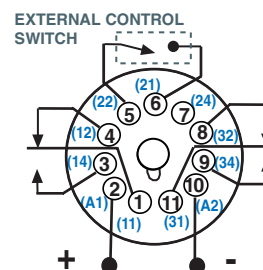
* CE TESTING AND EVALUATION
PERFORMED BY THE UNDERWRITERS
LABORATORIES AS A THIRD PARTY
PARTICIPANT

OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



INPUT ON DELAY



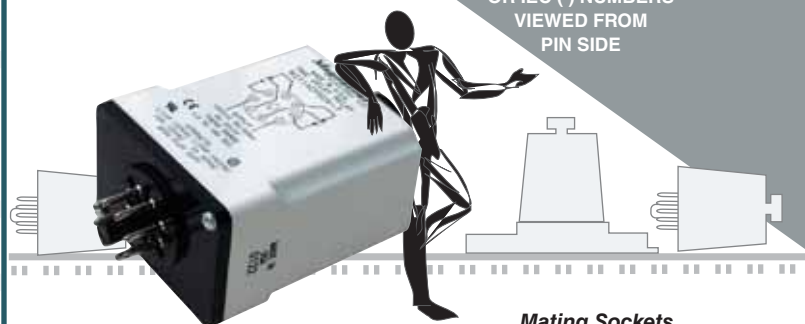
INPUT OFF DELAY

EXTERNAL SWITCH SHALL
NOT BE CONNECTED TO ANY
EXTERNAL LOAD OR VOLTAGE.
DAMAGE TO INTERNAL
COMPONENTS MAY OCCUR.

GENERAL SPECIFICATIONS (@ 25°C)

	UNITS	
TIMING		
Functions Available:		On delay, off delay, interval or one shot
Time Scales:		1
Time Range:		0.1 second to 120 minutes
Timing Adjustment:		KNOB
Timing Deviation (mechanical setting):	%	+20
Timing Repeatability (Constant voltage and temperature):	%	0.1
Reset Time:	mS maximum	150
Input Pulse Length:	mS minimum	50
INPUT		
Standard Voltage:		See P/N chart
Input Voltage Tolerance:	VAC 50/60 Hz	85% to 110%,
	VDC	80% to 110%
Power Consumption:	maximum	2.5 VA / 2 W
Transient Protection:		Yes
Reverse Polarity Protection:		Yes
Input Indication:		No
OUTPUT		
Contact Rating AC Amperes (AC1):	VAC 50/60Hz	10 amps resistive @ 240
Contact Rating DC Amperes (DC1):	VDC	10 amps resistive @ 30
Contact Rating Horsepower:	HP @ VAC	1/3 @ 120, 1/2 @ 240
Contact Rating Pilot Duty:		B300
Minimum Load:	mW	500
Contact Material:		Silver alloy
Output Indication:		No
DIELECTRIC STRENGTH		
Across Open Contacts:	V rms	1,000
Input to Contacts:	V rms	2,500
Pole to Pole:	V rms	2,000
TEMPERATURE		
Operating, Lower:	°C	-20
Operating, Upper:	°C	+55
Storage, Lower:	°C	-40
Storage, Upper:	°C	+85
LIFE EXPECTANCY		
Electrical Full Load	operations	100,000
Mechanical @ no Load :	operations	10,000,000
MISCELLANEOUS		
Operating Position:		Any
Cover Protection Category:	IP	40
Terminals:		SOX = 8 pin octal SRX = 11 pin octal
Weight:	grams	115

THE CLASS 211 TIME DELAY RELAY MAKES USE OF HYBRID CIRCUITRY, COMBINING INTEGRATED CIRCUITS FOR A MULTITUDE OF TIMING FUNCTIONS, AND THE RELIABILITY OF RELAY TECHNOLOGY.



ALTERNATE NEMA OR IEC () NUMBERS VIEWED FROM PIN SIDE

Mating Sockets
70-464-1, 70-750D8-1: SOX, 70-465-1, 70-750D11-1: SRX
See section 7

STANDARD PART NUMBER	NOMINAL INPUT VOLTAGE	TIMING RANGE
ON DELAY, 10 AMP		
211ACPSOX-3	24 VAC	1 TO 180 SECONDS
W211ACPSOX-5	120 VAC	0.1 TO 10 SECONDS
W211ACPSOX-7	120 VAC	1.0 TO 180 SECONDS
W211ACPSOX-8	120 VAC	2.0 TO 300 SECONDS
W211ACPSOX-60	120 VAC	1.0 TO 15 MINUTES
W211ACPSOX-61	120 VAC	2.0 TO 30 MINUTES
W211ACPSOX-62	120 VAC	4.0 TO 60 MINUTES
W211CPSOX-1	24 VDC	0.1 TO 10 SECONDS
W211CPSOX-3	24 VDC	1.0 TO 180 SECONDS
OFF DELAY, 10 AMP		
W211ACPSRX-5	120 VAC	0.1 TO 10 SECONDS
W211ACPSRX-7	120 VAC	1.0 TO 180 SECONDS
W211ACPSRX-8	120 VAC	2.0 TO 300 SECONDS
W211ACPSRX-60	120 VAC	1.0 TO 15 MINUTES
W211CPSRX-1	24 VDC	0.1 TO 10 SECONDS
W211CPSRX-3	24 VDC	1.0 TO 180 SECONDS

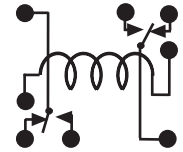
CALL FACTORY FOR OTHER VOLTAGES, TIME AND FUNCTIONS

7 PRINTED CIRCUIT BOARD SUBMINIATURE RELAY

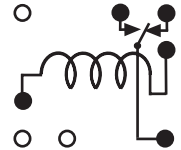


SPST & DPDT 2 AMPS

WIRING DIAGRAM (TOP VIEWED)



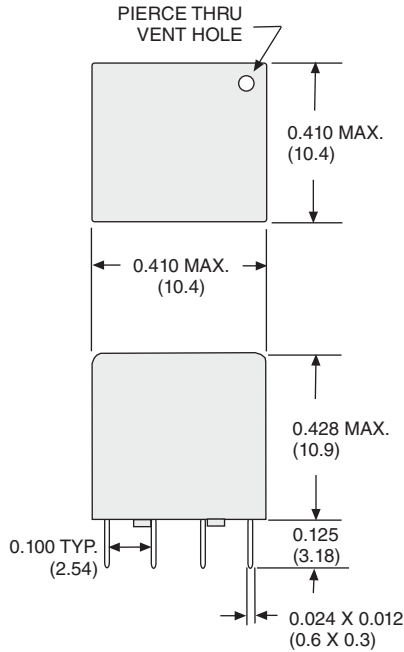
DPDT



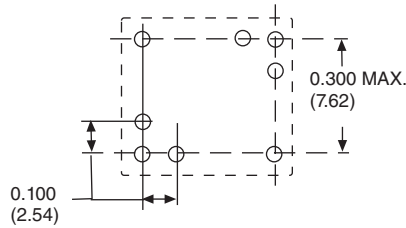
SPDT

OUTLINE DIMENSIONS

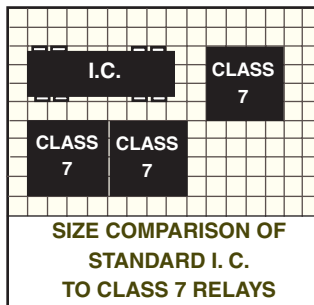
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



PRINTED CIRCUIT MOUNTING HOLE LAYOUT (BOTTOM VIEW)



TOP VIEW SHOWN AT ACTUAL SIZE ON 0.1 GRID



THE CLASS 7 RELAYS CAN BE DENSELY PACKED TOGETHER WITHOUT MAGNETIC INTERACTION FROM ADJACENT RELAYS.

STANDARD PART NUMBERS	CONTACT CONFIGURATION	COIL MEASURED @ 25 °C	
		NOMINAL INPUT VOLTAGE	NOMINAL RESISTANCE (OHMS)
W7PCX-1	SPDT	5 VDC	75 Ω
W7PCX-3	SPDT	12 VDC	440 Ω
W7PCX-4	SPDT	24 VDC	1550 Ω
W7PCX-5	DPDT	5 VDC	75 Ω
W7PCX-7	DPDT	12 VDC	440 Ω
W7PCX-8	DPDT	24 VDC	1550 Ω