Magnecraft Struthers-Dunn Your Contact for Industrial Relays

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

c UL us
UL Recognized
File No. E52197

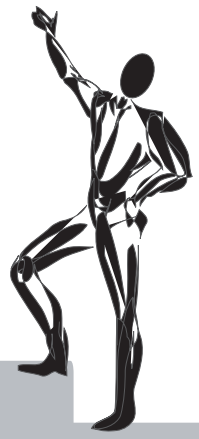
CE

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			
Style:	W62		
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

6	2	10	DDX-

CLASS:

LOAD VOLTAGE RANGE:
3 - 200 VDC: **CODE 2**

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

OPTIONS:
-1 = RANDOM TURN ON, NORMALLY OPEN

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

PHONE: (843) 393-5778 FAX: (843) 393-4123 EMAIL: info@magnecraft.com

Magnecraft
Strathers-Dunn
Your Contact for Industrial Relays

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

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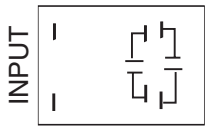
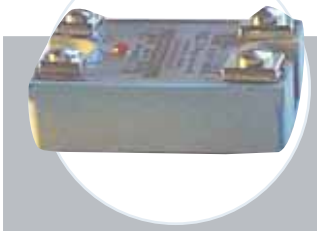
WIRING DIAGRAM
(VIEWED FROM PIN END)



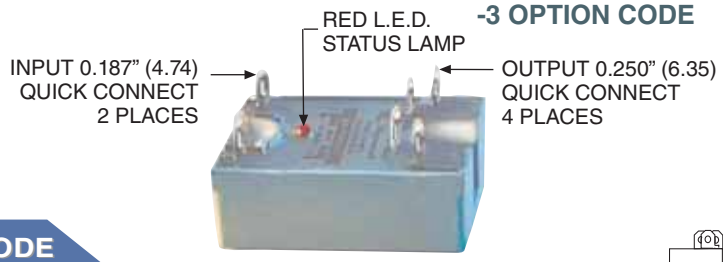
DTX - 3



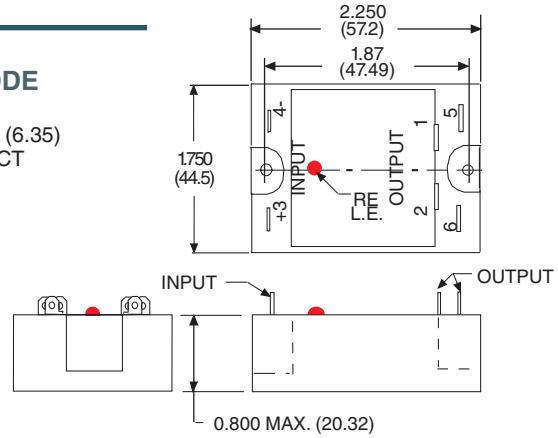
GENERAL SPECIFICATIONS (@ 25°C)

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

-3 OPTION CODE



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

PHONE: (843) 393-5778 FAX: (843) 393-4123 EMAIL: info@magnecraft.com

211 OCTAL 8 & 11 PIN TIME DELAY RELAY

DPDT, 10 AMPS

UL Recognized
File No. E43641

LISTED 367G
IND. CONT. EQ.

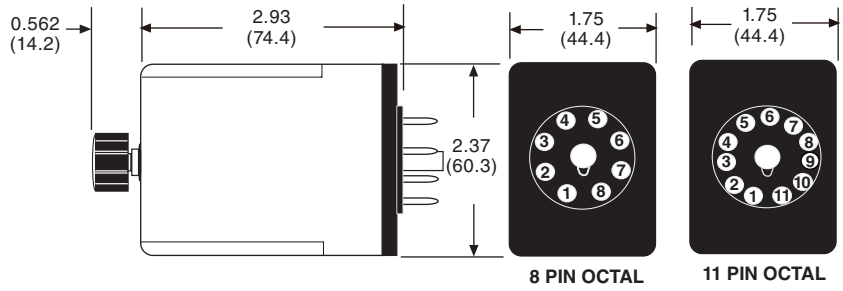
WHEN USED WITH SOCKETS:
70-464-1(8 PIN)
70-465-1(11 PIN)

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

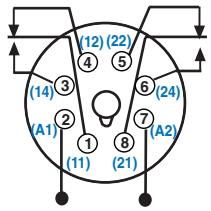
OUTLINE DIMENSIONS

DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



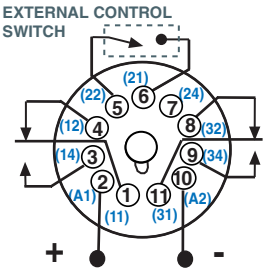
WIRING DIAGRAM

(VIEWED FROM PIN END)



INPUT ON DELAY

EXTERNAL CONTROL SWITCH



INPUT OFF DELAY

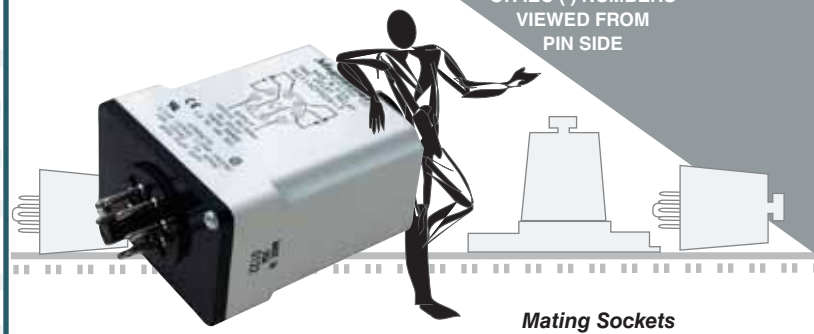
EXTERNAL SWITCH SHALL NOT BE CONNECTED TO ANY EXTERNAL LOAD OR VOLTAGE. DAMAGE TO INTERNAL COMPONENTS MAY OCCUR .

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 VDC	85% to 110%, 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

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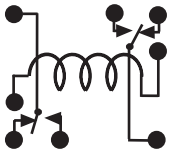
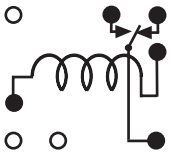
7 PRINTED CIRCUIT BOARD SUBMINIATURE RELAY

SPST & DPDT 2 AMPS

WIRING DIAGRAM
(TOP VIEWED

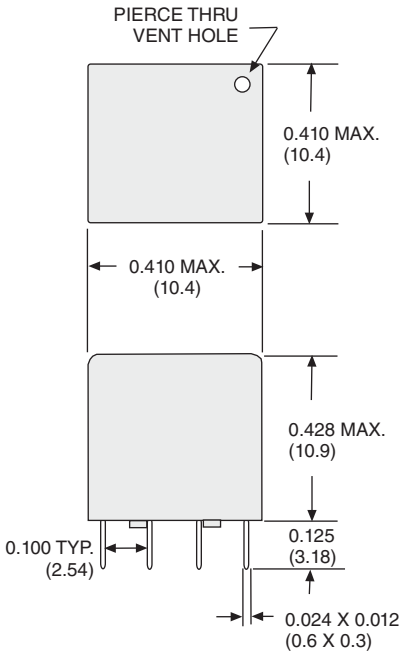


DPDT

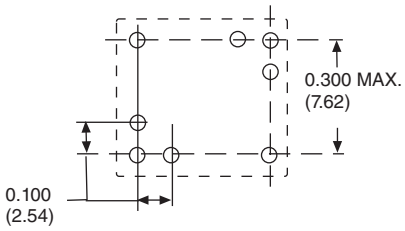


SPDT

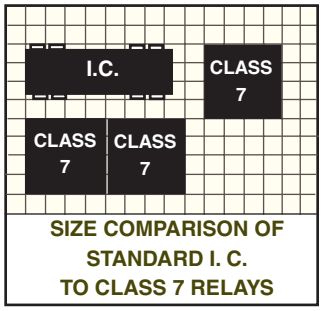
OUTLINE DIMENSIONS
DIMENSIONS SHOWN IN INCHES & (MILLIMETERS).



PRINTED CIRCUIT MOUNTING HOLE LAYOUT
(BOTTOM VIEW)



TOP VIEW SHOWN AT
ACTUAL SIZE ON 0.1 GRID



SIZE COMPARISON OF
STANDARD I. C.
TO CLASS 7 RELAYS

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

STANDARD PART NUMBERS	CONTACT CONFIGU-RATION	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