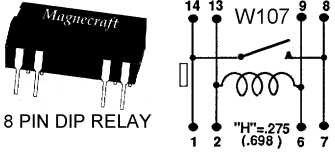


RELAYS

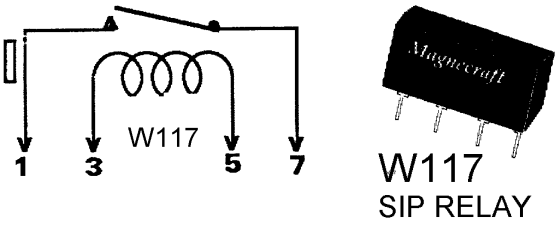
DIP DRY REED RELAYS W171 MAG (JWD171 P&B)						
TYPE	SWITCHING CURRENT	CARRY CURRENT	VDC	COIL OHMS	COIL POWER mW	PART #
SPST-N.O. (1 FORM A)	0.5	1.5A	5	500	50	W171DIP-7 MAG*
			12	1200	120	W171DIP-4 MAG W171DIP-9 MAG*
			24	2200	260	W171DIP-10 MAG*
SPST-N.C. (1 FORM B)			5	500	50	W171DIP-12 MAG W171DIP-17* MAG*
			12	1200	120	W171DIP-14 MAG
			24	2200	270	W171DIP-15 MAG
DPST-N.O. (2 FORM A)	0.5A	0.5A	5	200	125	W171DIP-21 MAG W171DIP-25 MAG*
			12	500	290	W171DIP-23 MAG W171DIP-27 MAG*
			24	2200	270	W171DIP-24 MAG W171DIP-28 MAG*

*These relays are built with a suppression diode on the coil.



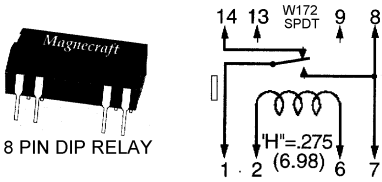
DRY REED DIP RELAYS—SPST W107MAG (JWD107 P&B) ½A (switching) 1½A (carry)			
VDC	COIL OHMS	COIL POWER mW	PART #
5	500	50	W107DIP-1 MAG W107DIP-5 MAG (clamp diode)
12	1200	120	W107DIP-3 MAG
24	2200	260	W107DIP-4 MAG W107DIP-8 MAG (clamp diode)

14 PIN DIP SOCKET: #814AG11D-ESLE



SIP REED RELAYS W117 MAG ½ amp switching 1-½ amp carry SPST-N.O. (1 FORM A)			
VDC	COIL POWER mW	COIL OHMS	PART #
5	50	500	W117SIP-1 MAG
12	77	1870	W117SIP-8 MAG*
24	180	3200	W117SIP-10 MAG*

*with suppression diode.



DIP DRY REED RELAYS W172 MAG (JWD172 P&B) ½ Amp Carry current					
TYPE	VDC	COIL OHMS	COIL POWER mW	SWITCHING CURRENT	PART #
SPDT (1 FORM C)	5	200	125	0.25A	W172DIP-1 MAG W172DIP-5 MAG*
		500	50		W172DIP-251 MAG
	12	500	290		W172DIP-3 MAG W172DIP-7 MAG*
	24	2200	270		W172DIP-8 MAG*
DPDT-N.C. (2 FORM C)	12	46	540	.1A	W172DIP-17 MAG W172DIP-21 MAG*
		266	540		W172DIP-19 MAG W172DIP-23 MAG*
		1066	540		W172DIP-20 MAG W172DIP-24 MAG*

*with suppression diode.
DIP SOCKET: 814AG11D-ESLE



MINIATURE DRY REED RELAY 2A contacts ½A switching SPST-NO (1 FORM A)				
VDC	COIL POWER mW	COIL OHMS	CLASS	PART #
12	102	1400	101	W101MPCX-2 MAG
24	250	2300	193	W193RE1A3-24G



RELAYS



W178



W76EUR



W49RE1C1

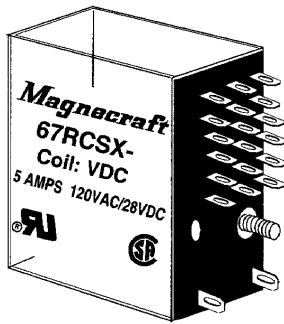
PC MOUNT RELAYS 0.1" CTR. Epoxy Sealed 10 Amps SPDT		
VOLTS DC	COIL OHMS	PART #
5 vdc	63	W178URE1-5DC
12 vdc	360	W178URE1-12DC
24 vdc	1440	W178URE1-24DC

EPOXY SEALED RELAYS 1.043" high x 1.142" long x .512" wide •SPDT •PC Mount			
VOLTS	COIL OHMS	CONTACT CURRENT	PART #
5 VDC	30	16 Amps	W76EURCPCX-14
12 VDC	280	16 Amps	W76EURCPCX-16
24 VDC	1100	16 Amps	W76EURCPCX-149

5 AMP EPOXY SEALED RELAY •Only 1.1 Cubic Inches •miniature enclosed •PC terminals •SPDT			
COIL VOLTS	COIL OHMS	COIL POWER	PART #
5/6VDC	235	250 mW	W49RE1C1VG-5DC-SCO



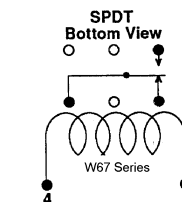
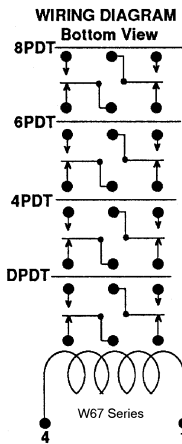
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W67 SERIES

MINIATURE INDUSTRIAL RELAYS W67 MAG (MHE P&B) •5 Amps •Plug-in •1.2" High				
VOLTS	CONTACT CONG.	COIL OHMS	COIL POWER	PART #
120 VAC	DPDT	N/A	1.5 VA	W67ACSX-5
120 VAC	4PDT	N/A	2.5 VA	W67ACSX-10
5 VDC	DPDT	52	1/2W	W67RCSX-1
5 VDC	4PDT	52	1/2W	W67RCSX-6
12 VDC	DPDT	185	3/4W	W67RCSX-2
12 VDC	4PDT	185	3/4W	W67RCSX-7
12 VDC	6PDT	90	1.5W	W67RCSX-12
12 VDC	8PDT	72	2W	W67RCSX-17
24 VDC	DPDT	700	1W	W67RCSX-3
24 VDC	4PDT	700	1W	W67RCSX-8 W67TCSX-8*
24 VDC	6PDT	430	1.5W	W67RCSX-13 W67TCSX-13*
24 VDC	8PDT	350	2W	W67RCSX-18 W67TCSX-18*
48 VDC	DPDT	2500	1W	W67RCSX-4
48 VDC	4PDT	2500	1W	W67RCSX-9
115 VDC	DPDT	15000	1W	W67RCSX-5
115 VDC	4PDT	15000	1W	W67RCSX-10

*BIFURCATED CONTACTS--Good for low current, low voltage applications (like audio circuits); reduces switching noise on signal. Gives better contact.
BASES--SPDT (70-303 MAG) DPDT (70-305 MAG) 4PDT (70-305 MAG) 6PDT (70-307 MAG) 8PDT (70-309 MAG). Bases are solder term., snap-fit into chassis.



RELAYS

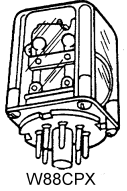
CURRENT SENSITIVE MINIATURE INDUSTRIAL RELAYS W67 SERIES 3 Amps DC Operated				
COIL OHMS	COIL PULL-IN mA DC	COIL PULL-IN WATTS	CONTACT CONFIG.	PART #
1000	9.2	85 mW	DPDT	W67SCSX-1
2500	6.3	100 mW	DPDT	W67SCSX-2
1000	13.5	200 mW	4PDT	W67SCSX-6

VOLTAGE--To determine the DC voltage at which these relays will operate, divide the coil pull in current by the coil resistance.



CURRENT SENSITIVE OCTAL RELAYS DPDT 10 Amps			
COIL CURRENT	COIL OHMS	COIL POWER	PART #
10 mA	2500	250 mW	W88CPX-16

OCTAL SOCKET -- Order 70-464-1 MAG (DIN rail or surface mount, screw term.)



Manufacturer's Phones:
Deltrol 414-671-6800
NTE www.nteinc.com



www.nteinc.com

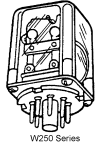


DELTRON

controls / DC

COAXIAL RELAYS •UHF Connections					
VOLTS	COIL OHMS	TYPE	WATTS	FREQ.	PART #
10-16 VDC	190	SPDT	1250	DC to 180 MHz	101 MFC UNADILLA
10-16 VDC	190	SP3T	1500	DC to 180 MHz	1013 MFC UNADILLA
115VAC	N/A	SPDT	500	DC to 1000 MHz	W128AX-11 MAG*

*DPDT AUXILIARY CONTACTS — 10A DPDT auxiliary contacts are included with this relay.



OCTAL-TYPE RELAYS W250 MAG (KAP5,11, 14 P&B)				
TYPE	VOLTAGE	PART #	COIL RESISTANCE	COIL POWER
SPDT 12A	24VAC	W250ACPX-3 MAG	N/A	2 VA
	120VAC	W250ACPX-4 MAG		
DPDT 10A	12 VAC	R02-11A10-12 NTE		
	24VAC	W250ACPX-8 MAG		
	120VAC	W250ACPX-9 MAG		
	240VAC	W250ACPX-10 MAG		
3PDT 10A	12VAC	RLY1052 R02-14A10-12		2.75 VA
	24VAC	W250ACPX-13 MAG R02-14A10-24		
	120VAC	W250ACPX-14 MAG		
	240VAC	W250ACPX-15 MAG		
SPDT 12A	12VDC	W88CPX-2 MAG	120	1.2 W
	24VDC	W250CPX-3 MAG	470	
DPDT 12A	12VDC	W250CPX-6 MAG	120	
	24VDC	W250CPX-7 MAG	470	
3PDT 10A	12VDC	W250CPX-10 MAG	120	
	24VDC	W250CPX-11 MAG RLY1153	470	
	110VDC	RLY1155 R02-14D10-110	10K	

SOCKETS — SPDT & DPDT relays take an 8 pin socket, 70-464-1 MAG. 3PDT relays take an 11 pin base, 70-465-1 MAG.

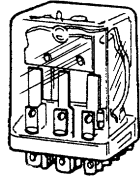


"ICE CUBE" RELAYS W78 MAG (KHP/KHU P&B) Plug-in			
COIL VOLTS	COIL OHMS	10 AMP DPDT PART #	3 AMP 4PDT PART #
6 VAC	12.2	W78ARCSX-7	N/A
12 VAC	46	R14-11A10-12	W78ACSX-2
24 VAC	180	K10P11A15-24	W78ACSX-3
120 VAC	4430	K10P11A15-120	W78ACSX-5
240 VAC	18790	W78ARCSX-12*	W78ACSX-6 R12-17A3-240
6 VDC	40	W78RCSX-6	W78CSX-1 R12-17D3-6
12 VDC	160	K10P11D15-12	W78CSX-2
24 VDC	650	31001-82 DEL	W78CSX-3
48 VDC	2600	W78RCSX-9 R14-11D10-48	R14-17D10-48
110 VDC	11000	W78RCSX-10	W78CSX-6

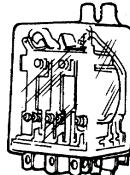
*not a stock item at Ack (2-3 week delivery).

BASES — The base for DPDT relays is #33004-80 DEL and for 4PDT relays is #R95-117. Both are DIN rail or surface mount, screw term.

RELAYS



W388 MAG
166 DELTROL



W388 Series

11-13 AMP PLUG-IN RELAYS W388 MAG KUP5,11,14 P&B 166 Deltrol (Approx. 2" x 1- 1/2" x 1-1/2")				
COIL VOLTS	OHMS	CONTACTS	COIL POWER	PART #
24VAC	N/A	SPDT 13 amps	2 VA	W388ACPX-3
24VAC	N/A	DPDT 12 amps	2 VA	20307-82 DEL
24VAC	N/A	3PDT 11 amps	2.75 VA	20308-82 DEL
120 VAC	N/A	SPDT 13 amps	2 VA	W388ACPX-4 20300-84 DEL* *open frame
120 VAC	N/A	DPDT 12 amps	2 VA	20307-84 DEL
120 VAC	N/A	3PDT 11 amps	2.75 VA	20308-84 DEL
240VAC	N/A	DPDT 13 amps	2.75 VA	W388ACPX-10
240 VAC	N/A	3PDT 11 amps	2.75 VA	W388ACPX-15
12VDC	120	DPDT 12 amps	1.2 W	20310-81 DEL
12VDC	120	3PDT 11 amps	1.2 W	20311-81 DEL
24VDC	470	SPDT 13 amps	1.2 W	KUP5D15-24
24VDC	470	DPDT 12 amps	1.2 W	20310-82 DEL
24VDC	470	3PDT 11 amps	1.2 W	20311-82 DEL
110VDC	10000	DPDT 12 amps	1.2 W	W388CPX-8

SOCKETS—All the above relays fit into the 27E893 P&B socket (DIN rail or surface mount, screw term.).

11 to 13 AMP FLANGE MOUNT RELAYS (no socket necessary) W388 MAG (KUP P&B)				
CONTACTS	VOLTS	COIL OHMS	COIL POWER	PART #
SPDT 13 AMPS	120 VAC	N/A	2 VA	W388ACQX-4
DPDT 12 AMPS	120 VAC	N/A	2 VA	W388ACQX-9
3PDT 11 AMPS	120 VAC	N/A	2.75 VA	W388ACQX-14
SPDT 13 AMPS	240VAC	N/A	2 VA	W388ACQX-5
DPDT 12 AMPS	240VAC	N/A	2.75 VA	W388ACQX-10
SPDT 13AMPS	12VDC	120	1.2W	W388CQX-2
DPDT 12 AMPS	12VDC	120	1.2W	W388CQX-6
SPDT 13 AMPS	24VDC	470	1.2W	W388CQX-3
DPDT 12 AMPS	24VDC	470	1.2W	W388CQX-7
3PDT 11 AMPS	24VDC	470	1.2W	W388CQX-11

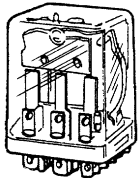
TERMINALS--These relays have .187" x .020 quick connect terminals with solder holes.



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DELTROL controls

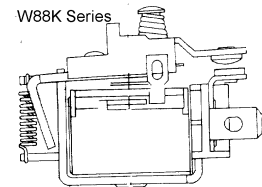


W388 Series

MAGNETIC LATCHING RELAYS •W388 Series						
COIL VOLTS	COIL OHMS	COIL CONFIG.	CONTACT CONFIG.	POWER REQ.	SOCKET REQUIRED	PART #
120VAC	10K	SINGLE	DPDT 10 AMPS	.8VA	70-463-1 MAG	W388AMLCPX-9
24VDC	350/350	DUAL	DPDT 10 AMPS	1.64W	70-463-1 MAG	W388ML2CPX-7

BASE—The correct base for these relays is R95-115 (screw term, DIN rail /surface mount).

W88K Series



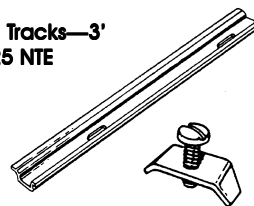
150 Series Stancor



122 & 154 Series Stancor

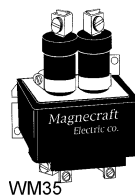
DIN Rail Mounting Tracks—3' lengths. #R93-125 NTE

DIN Rail Pressure Clamp—With 6-32 machine screw. #R95-126 NTE



STANCOR CONTACTORS			
VOLTS	AMPS	CONFIG.	PART #
24 VAC	30	2 POLE - N.O.	122-901 STA
24 VAC	40	2 POLE - N.O.	154-910 STA
24 VAC	25	3 POLE - N.O.	154-904 STA
24 VAC	30	3 POLE - N.O.	154-907 STA
12 VDC	25	1 POLE - N.O.	150-902 STA
12 VDC	50	1 POLE - N.O.	70-902 STA
12 VDC	15	DPDT	150-905 STA

30 AMP RELAYS — OPEN FRAME •SPST •N.O. Quick-connect/solder term.			
COIL VOLTS	COIL OHMS	COIL POWER	PART #
12 VDC	100	1.5W	RLY8512
24 VDC	400	1.5W	W88UKDX-3

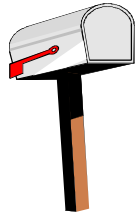
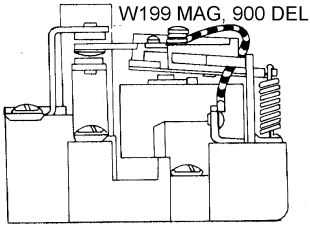


WM35

MERCURY WETTED RELAYS 2 Pole, Normally Open				
COIL VOLTS	COIL CURRENT	COIL OHMS	COIL POWER	PART #
240 VAC	0.063	1200	16.5 VA	WM35AA-240

RELAYS

30 AMP OPEN FRAME RELAYS/CONTACTORS				
•W199 MAG •PRD5,7,11 P&B •900 Deltrol				
TYPE	VOLTS	PART #	COIL OHMS	COIL POWER VA
SPDT	120VAC	20239-83 DEL	N/A	10
DPST-N.O.	24VAC	RLY1233	N/A	
	120VAC	PRD7AY0-120		
DPDT	24VAC	20241-82 DEL	N/A	4.6
	120VAC	20241-83 DEL		
3PDT enclosed (flange mount)	24VAC	21011-82 DEL	N/A	2.6
	120VAC	21011-84 DEL		
	240VAC	21011-85 DEL		
SPDT	12VDC	20243-81 DEL	70	2
	24VDC	20243-82 DEL	290	
DPST-N.O.	12VDC	W199X-7 MAG	70	6000
	24VDC	20244-82 DEL	290	
DPDT	12VDC	20245-81 DEL	70	~70
	24VDC	20245-82 DEL	290	
	110VDC	20245-84 DEL	6000	
3PDT enclosed (flange mount)	12VDC	21014-81 DEL	~70	230
	24VDC	21014-82 DEL	230	

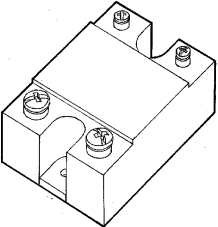


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SOLID STATE RELAYS				
INPUT	OUTPUT	AMPS	FEATURES	PART #
3 to 32 VDC	AC TRIAC 120 VAC	10A	PHOTO ISOLATED, ZERO SWITCHING	W6110DTX-1
3 to 32 VDC	AC SCR 240 VAC	25A	"	W6225DSX-1
3 to 32 VDC	AC SCR 24-240 VAC	40A	"	RS3-1D40-21
3 to 32 VDC	AC SCR 24-240 VAC	75A	"	RS3-1D75-21 W6240DSX-1
90 to 280 VAC (& 80 to 140 VDC)	AC SCR 24-240 VAC	40A	"	RS3-1A40-22
3.5 to 32 VDC	DC 0-200 VDC	12A	Transformer Isolated	W6212DDX-1



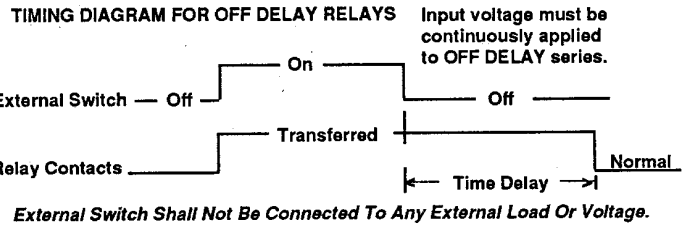
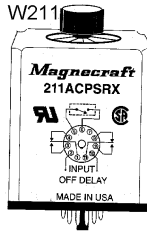
SOLID STATE RELAY

800-338-4218 ACK Birmingham 205-322-0588

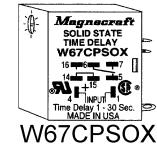
RELAYS

TIME DELAY RELAYS DPDT 10 Amp Contacts			
DELAY	VOLTS	TIMING RANGE	PART #
ON DELAY	120 VAC	.1 to 1 sec.	W211ACPSOX-18
		.1 to 10 sec.	W211ACPSOX-5
		.3 to 30 sec.	W214ACPSOX-1 (5 amp contacts)
		1 to 180 sec.	W211ACPSOX-7
		2 to 300 sec.	W211ACPSOX-8
		3 to 240 sec.	W214ACPSOX-2 (5 amp contacts)
		1 to 15 min.	W211ACPSOX-60
		2 to 30 min.	W211ACPSOX-61
	24VDC	.1 to 10 sec.	W211CPSOX-1
24VDC	1 to 180 sec.	W211CPSOX-3	
OFF DELAY*	120 VAC	.1 to 10 sec.	W211ACPSRX-5
		1 to 180 sec.	W211ACPSRX-7
		2 to 300 sec.	W211ACPSRX-8
	24VDC	.1 to 10 sec.	W211CPSRX-1
		1 to 180 sec.	W211CPSRX-3

SOCKET/BASE—The "on delay" relays are octal and use base 70-464-1. The "off delay" relays require 11 pin base 70-465-1.
*A special external switch is needed for the OFF DELAY relays. See diagram.

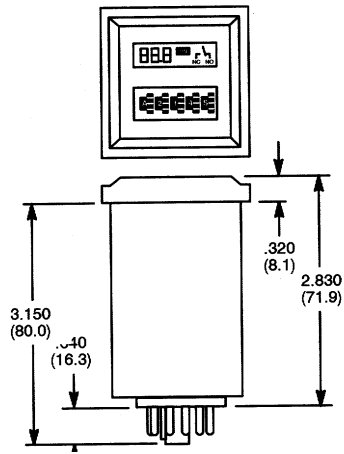


SMALL TIME DELAY (0.1 to 30 sec.) RELAY
1.18" high x .734" x 1.37"
±2% Repeatability 12VDC DPDT
"On" Delay Timing 5 Amps
#W67CPSOX-1 MAG
(BASE: #70-303 MAG)



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(quantity discounts offered)



PROGRAMMABLE TIME DELAY RELAY
•DPDT •10 AMPS
•24-240V AC OR DC

10 Programmable timing modes + 2 counting modes, 0.1 sec. - 9.990 hrs timing range, 1 - 99,900 counting range, LCD digital display, thumbwheel switches for programming.
R65-11AD10
(requires 11 pin base: 70-465-1).

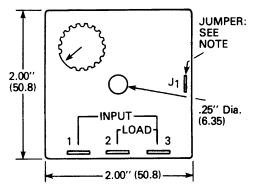
DUAL TIME DELAY RELAYS 120VAC DPDT 10 AMPS	
OFF & ON TIMING RANGE	PART #
.1 to 10 sec.	W222ACPFX-11 MAG
3 to 300 sec.	W222ACPFX-16 MAG
2 to 30 min.	W222ACPFX-27 MAG

BASE—Relays require an octal base, 70-464-1 MAG



ADJUSTABLE TIME DELAY RELAYS •DPDT •12 Amps •2.90" x 1.4" •External Resistors Adjust Delay			
INPUT VOLTAGE	DELAY	TIMING RANGE	PART #
120VAC	ON DELAY	1.0 to 120 sec.	W388ACQSOX-2*
24VDC	ON DELAY	0.1 to 120 sec.	W388CPSOX-2

*surface mount flange style, no base necessary.
BASE — The base required for these relays is 27E893 P&B (DIN rail or surface mount, screw term.)



CUBE TIMERS — Knob adjustable, 2" x 2", SPST, 1 amp, .250" QC connectors, universal cube timers:
Delay on operate. 1-1000 seconds timing range, 18-288 VAC or VDC. **RLY220**
Delay on release. 0.1-5 minutes timing range, SPST, 1 amp, 19-288 VAC only. **RLY250**