

MAGNECRAFT RELAYS







Why Magnecraft?

Over 50 Years of Innovation...

Magnecraft is proud to be recognized as the most innovative and quality-conscious name in the industry. We stay ahead by creating the most cost-effective, highest-rated and feature-rich relays and sockets available.

Product Offering Includes:

- Full-featured plug-in relays which are faster and easier to troubleshoot.
 - Upgraded sockets with finger-safe, logic-style design for a cleaner panel layout.



- Added functionality or protection with new socket modules including:
 - LED Status
 - Surge Protection
 - Diode Protection
- Socket bus jumpers which allow connections to adjacent sockets without additional wiring.
- Relays with DIN mount capability.
 - Most products are UL registered or listed, CSA approved, CE certified and RoHS compliant.



A Complete System: relays, sockets, modules, bus jumpers, ejector clips and ID tags.

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Complete Relay System

Electrical control panels often require modification, which can be time consuming, difficult and unsafe. Our quality parts are designed to work together as a complete system to save time and energy. The Plug-In Relay/Socket System is built to upgrade and simplify outdated control panels.

Complete System Solution (Relay, Socket and Accessories)

- Saves time on installation
- Increases productivity
- Increases reliability
- Reduces downtime due to malfunction



Relay System is UL Listed, eliminating the need for users to self-certify their system.



Relay Categories



General Purpose Relays are available in many different package styles such as full-featured, plain cover and flange mount. Most are compatible with a choice of sockets and accessories.

Applications:

- Building automation
- Pumps & fans
- Heating & cooling

Applications:

- Lighting
- Motors
- Machinery

Power Relays are used to control circuits that exceed 10 amps. They are capable of switching high voltage DC loads and multiple HP motors.



Timing & Sensing Relays are used to control and monitor circuits. The purpose of a time delay relay is to control an event based on time. Sensing relays monitor and react to a voltage or current.

Applications:

- Security/Alarms
- Lighting
- Circuit protection

Applications:

- Packaging equipment
- Hospital
- Flashing lights

Solid State Relays are electronic control devices that have no moving parts. They are suitable for applications that have high cycle rates and require reliable and silent operations.





Latching & Sequencing Relays utilize impulses to control switching and/or to conserve energy. When the control power is removed, the contacts remain in the closed state. This means they consume energy only for a moment while switching.

Applications:

- Pumps & fans
- Solar powered circuits
- Mining equipment

Applications:

- Computers
- Business machines
- Consumer appliances

Printed Circuit Board Relays are compact devices used for power management on printed circuit boards (PCBs).





How To Choose A Type Of Relay





- Socket compatible
- Multiple feature & operation combinations available
- Optional accessories

- Direct replacement for MRO
- Hermetically sealed versions for hazardous locations

Series		Style	Terminals	Contact Configuration	Output Current	Horsepower Rating
781		Ice Cube Power &	Blade	SPDT	15 A	1/2 HP at 120 Vac 1 HP at 277 Vac
701		Low-Level	Didde		3 A	-
				SPDT	20 A	1/2 HP at 120 Vac 1 HP at 250 Vac
782		Ice Cube Power &	Blade	DPDT	15 A	1/2 HP at 120 Vac 1 HP at 250 Vac
	and the second	Low-Level		DPDT, 3PDT & 4PDT	10 A	1/3 HP at 120 Vac 1 HP at 277 Vac
					3 A	1/16 HP at 120 Vac
783		Ice Cube Power	Blade	3PDT	15 A	1/2 HP at 120 Vac 3/4 HP at 250 Vac
784		Ice Cube Power	Blade	4PDT	15 A	1/2 HP at 120 Vac 3/4 HP at 250 Vac
	Carlos Carlos	Ice Cube Power	Octal (8 Pin)	SPDT & DPDT	16 A	1/3 HP at 120 Vac 1/2 HP at 250 Vac
750			Octal (11Pin)	3PDT	16 A	1/3 HP at 120 Vac 1/2 HP at 250 Vac
788		Ice Cube Power	Blade	SPDT, DPDT & 3PDT	16 A	1/3 HP at 120 Vac 1/2 HP at 230 Vac
				DPDT	16 A	1/3 HP at 120 Vac 1/2 HP at 600 Vac
388J		Ice Cube Power	Blade	3PDT	16 A	1/2 HP at 120 Vac 3/4 HP at 230 Vac
				DPDT & 4PDT	5 A	-
782H		Hermetically Sealed	Quick Connect	DPDT & 4PDT	3 A	1/16 HP at 120 Vac 1/10 HP at 230 Vac
	Bea			DPDT & 4PDT	1 A	-
			Octal (8 Pin)	DPDT	12 A	1/3 HP at 120 Vac 1/2 HP at 230 Vac
750H	March Str.	Hermetically Sealed			3 A	-
		Tormeneally ocaled	Octal (11 Pin)	3PDT	12 A	1/3 HP at 120 Vac 1/2 HP at 230 Vac
					3 A	-



Aluminum DIN Rail / Pre-punched for quick installation. 2-Way Mounting System Retrofits to existing panel mounting and 35mm DIN rail.

Relay Style	Relay Series	Socket	Rated Amps	Sample Image	Pins	Terminals	Terminal Layout	Finger Safe
	782XBX1(2, 3)	70-782EL8-1	12 A		8	Spade	Logic	V
	782XCX	70-782EL11-1	10 A	10 C	11	Spade	Logic	v
Control		70-782D14-1	10 A	2 mars	14	Spade	Mixed	v
Relay	782XDX	70-782E14-1	10 A	11 1 2 20	14	Spade	Logic	v
2	TDR782	70-461-1	10 A	and the second s	14	Spade	Mixed	X
		70-782EL14-1	10 A		14	Spade	Logic	v
	781XAX	70-781D5-1A	20 A		5	Spade	Mixed	v
Power	782XAX	70-782D8-1A	16 A	A Mar	8	Spade	Mixed	v
ICE-Cube	782XBX	70-459-1	10 A	8 42	8	Spade	Mixed	X
Relay	783XCX	70-783D11-1	16 A		11	Spade	Mixed	v
	784XDX	70-784D14-1A	16 A		14	Spade	Mixed	v
Square Base	725	70-725-1	30 A		6	Spade	Mixed	v
	788 388J 389F TDRSRXB	70-788EL11-1	25 A	AN IN	11	Spade	Logic	~
l'endi ticity		70-463-1	15 A		11	Spade	Mixed	×
	750XAX	70-169-1	15 A		8	Octal	Mixed	×
		70-464-1	15 A	Jack Land	8	Octal	Mixed	×
Octal Relay	750XBX	70-750DL8-1	16 A	1 THE	8	Octal	Logic	v
(8 PIN)	TDRPROSTOT(2) TDRSOXP	70-750E8-1	12 A		8	Octal	Mixed	~
		70-750EL8-1	16 A		8	Octal	Mixed	v
		70-170-1	15 A		11	Octal	Mixed	X
	750XCX	70-465-1	15 A	for the	11	Octal	Mixed	X
Octal Relay	TDRPRO5100	70-750DL11-1	16 A	De Se	11	Octal	Logic	v
,	TDRSRXP	70-750E11-1	12 A	The Mar	11	Octal	Mixed	v
		70-750EL11-1	16 A	~	11	Octal	Logic	v

Note: Additional Panel Mount and Printed Circuit Sockets available for most spade terminal relays.





ACCESSORIES							
Module	Clip	Bus Jumper	ID Tag/ Label				
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- Rated up to 50 Amps
- Socket compatible versions
- Epoxy sealed versions available
- Optional blowout magnet for high DC switching
- Several mounting, feature & operation combinations to fit multiple applications

Series		Style	Terminals	Contact Configuration	Output Current	Horsepower Rating
				SPST, SPDT, DPST, DPDT,	40 A	
W199	14 · 21	Open	Screw	SPST-DM, SPST-DB	50 A	1.5 HP at 120/240/250/277/600 Vac
3905		Ire Cube	Quick Connect	SPST-NO-DM, SPDT-DM- DB, SPST-NC-DB	30 A	1 HP at 120 Vac 1.5 HP at 240/250/277/600 Vac
5071				SPST, SPDT, DPST, DPDT	25 A	1.5 HP at 240 Vac 1 HP at 600 Vac
300		Ice Cube	Quick Connect	SPST, SPDT, DPST, DPDT, SPST-NO-DM, SPST-NC- DB, SPST-DM-DB	30 A	1 HP at 120 Vac 2 HP at 240/250/277/600 Vac
		Ice Cube	Quick Connect & Screw	SPST-NO	30 A	1.5 HP at 120 Vac 3.0 HP at 277 Vac
725				DPST-NO	25 A	1.0 HP at 120 Vac 2.0 HP at 277 Vac
		Mini Power	Quick Connect	SPST-NO	30 A	1 HP at 120 Vac 3 HP at 240 Vac
W92				DPDT-NO	30 A	1 HP at 120 Vac 3 HP at 240 Vac
				DPDI-NC	3 A	-
			Quick Connect	SPST-NO	30 A	1 HP at 120 Vac 2 HP at 240 Vac
	1			CDDT	30 A	1 HP at 120 Vac 2 HP at 240 Vac
W9A	No.	Mini Power		ועזכ	15 A	1/4 HP at 120 Vac 1/2 HP at 240 Vac
				DPDT-NO	30 A	1 HP at 120 Vac 3 HP at 240 Vac
					3 A	-



- Up to 10 timing functions
- Switching up to 4 pole (4PDT)
- Timing ranges up to 10 days
- DIN or panel mounting styles

Interactive Timing Demo



visit www.magnecraft.com/timer-demo.php

Series		Style	Contact Configuration	Output Current	Timing Range	Number of Functions	Function Type
000	5	Time delay relay Mini-DIN mount	SPDT (821)		100 ms to		
820	33		DPDT (822)	15 A	10 Days	10	All
831		Voltage sensing mini-DIN mount relay	SPDT	15 A	100 ms to 10 Sec	1	On Delay
841	1 and 1	Current sensing mini-DIN mount relay	SPDT	15 A	100 ms to 10 Sec	1	On Delay
TDR782		Time delay relay Mini Plug-in w/Dial	DPDT	5 A	100 ms to 10 Hrs	1	On Delay
			4PDT	3 A		1	On Delay
	- Bee	Time delay relay 1/4 DIN Panel Plug-in w/5 Digit Thumbwheel	SPDT (TDRPRO-5101) DPDT (TDRPRO-5100)	12 A	100 ms to 10 Hrs	10	All
TDRPRO			DPDT (TDRPRO-5102)			3	On Delay Repeat Cycle On Interval
TDRSOX		Time delay relay Plug-in w/Dial & DIP switches	DPDT	12 A	100 ms to 10 Hrs	2	On Delay Interval
TDRSRX		Time delay relay Plug-in w/Dial & DIP switches	DPDT	12 A	100 ms to 10 Hrs	2	Off Delay Retriggerable

Time Delay Function Definitions

rower Irigger					
Function	Description				
On Delay	Contacts transfer after pre-set time.				
Repeat Cycle (Starting Open)	Contacts wait for pre-set time before cycling.				
Interval	Contacts transfer immediately, and release after pre-set time.				
Repeat Cycle (Starting Closed)	Contacts transfer immediately and start repeat cycle.				
Pulse Generator	Contacts transfer for a 0.5 pulse after pre-set time.				

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Switch Trigger						
Function	Description					
Off Delay	Contacts transfer when trigger is closed. Timing function begins after trigger is released.					
Retriggerable One Shot	Contacts transfer when trigger is closed and timing function begins. Re-set any time.					
One Shot	Contacts transfer when trigger is closed and timing function begins. Ignores re-set attempts.					
On/Off Delay	Contacts transfer after pre-set time when trigger is closed; then transfer back after same time length.					
Memory Latch	Contacts transfer each time trigger closes.					



- 100% solid state design
- Industry-first design (861 & 861H Series)
- Integral heat sinks available
- Modern appearance & enhanced features
- Several styles to fit multiple applications



Series		Style	Integrated Heat Sink	Contact Configuration	Output Current Range	Input Voltage Range	Output Voltage Range
	-			SPST-NO	8 to 10 A	2 to 22 Vde	3 to 150 Vdc 24 to 480 Vac
861 🧸	TEL SCALL	Mini-DIN mount	~	SPST-NO SPST-NC	15 A	90 to 280 Vac	
	Ser.	Mini-DIN mount		SPST-NO	8 to 10 A	- 3 to 22 Vdc	2 to 150 Vdc
861H	A STATE	Class 1, Division 2 Certified	 	SPST-NO SPST-NC	15 A	90 to 280 Vac	24 to 480 Vac
SSRDIN	VE	DIN mount	V	SPST-NO	10 to 45 A	4 to 32 Vdc 90 to 280 Vac	0 to 60 Vdc 24 to 660 Vac
_	and the second s	Puck style Panel mount	-	SPST-NO	10 to 75 A	3 to 32 Vdc 90 to 280 Vac	3 to 200 Vdc 24 to 480 Vac
Class 6				DPST-NO	10 to 25 A		
	7052 (F)	PCB mount Solder terminals			4 A	3 to 32 Vdc	3 to 60 Vdc 8 to 280 Vac
	7052 (M)	Panel mount Solder terminals	_		10 A		
7052	7052 (N)	Panel mount Blade terminals		SPST-NO	5 to 12 A		
	7052 (S)	Panel mount Screw terminals			5 to 25 A		
	7052 (V)	PCB mount Solder terminals			3 to 5 A		



- Ideal for energy conservation
- Single & dual coil control
- Switching up to 6 pole (6PDT)
- Optional LED indicator
- Several styles to fit multiple applications

Series		Style	Terminals	Contact Configuration	Output Current	Horsepower Rating	Features
711	+ Logan	Impulse Sequencing Relay	Blade (8)	DPDT	12 A	1/3 HP at 120/240 Vac	Unidirectional pulse will set and reset magnetically latched contacts - ie. "flip- flop"
712		Alternating Relay	Pin (8 to 11)	SPDT DPDT	12 A	1/3 HP at 120/240 Vac	Toggle switch locks contacts into single state or allows the relay to alternate between two loads.
755		Magnetic Latching Octal Relay	Pin (8)	DPDT	16 A	1/3 HP at 120/240 Vac	Single coil control allows a 2 or 3 wire control circuit; the contacts transfer and reset when a polarity sensitive voltage is applied to the coil.
785	R	Magnetic Latching Square Base Relay	Spade (8)	DPDT	16 A	1/3 HP at 120/240 Vac	Single coil control allows a 2 wire control circuit; the contacts transfer and reset when a polarity sensitive voltage is applied to the coil.
700			Space (0)				Dual coil controls allows a 4 wire control circuit, the contacts transfer and reset when voltage is directed to specific coils.
	A STATE	Magnetic		SPDT		1 HP at 120 Vac	Single coil control allows a 2 wire control circuit; the contacts transfer and reset when a polarity sensitive voltage is applied to the coil.
303	1 miles	Latching Power Relay	Spade (8)	DPST DPDT	30 A	2 HP at 208 Vac	Dual coil control allows a 4 wire control circuit, the contacts transfer and reset when voltage is directed to specific coils.
385		Mechanical Latching Relay	Spade (8)	DPDT 4PDT 6PDT	15 A	1/3 HP at 120/240 Vac	Dual coil construction controls up to 6 poles. The contacts are mechanically latched



- Space saving package design
- Single & Double pole switching
- Ratings from 0.25 to 20 Amps
- Wave solderable
- Sealed for wash-down process

Series		Style	Contact Configuration	Output Current	Output Voltage	Minimum Switching Requirement	Response Time
117SIP		Miniature Reed Relay	SPST	0.25 to 0.5 A	120 Vac 200 Vdc	10 mA	0.45 ms
107DIP		Miniature Reed Relay	SPST	0.25 to 0.5 A	120 Vac 100 Vdc	10 mA	1 ms
פורו דו		Miniature	DPST	0.25 to	120 Vac 100 Vdc	- 10 mA	1 ms
	TT TT	Reed Relay	SPST	0.5 A	60 Vac 100 Vdc		
172DIP	H H	Miniature Reed Relay	SPDT DPDT	0.25 to 0.35 A	60 Vac 100 Vdc	10 mA	1 ms
074		Electromechanical Relay	SPDT	7 A	240 Vac	100 mA	10 ms
270			SPST	10 A	30 Vdc		
		Electromechanical Relay	SPST	12 A	240 Vac 30 Vdc	100 mA	10 ms
976	Magneeratt			20 A	240 Vac 48 Vdc		
	RICA		DPDT	5 A	240 Vac 30 Vdc		
				15 A	277 Vac		
49				10 A	28 Vdc	100 mA	
	Harmond Harrison	Electromechanical Relay	SPDT	5 A	120 Vac 28 Vdc		25 ms
				15 A	150 Vac		
				3 A	28 Vdc		