Catalog 2015











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■ 725 Series Relays
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Designed with heavy-duty contacts coupled with a specialized magnetic armature and coil to provide the necessary power handling, Magnecraft power relays easily handle current loads of 20–50 A and can also switch currents as low as 100 mA. With multiple features as well as panel and DIN mounting options, these relays offer the performance and flexibility needed to improve design, expedite installation, and simplify testing of your application.

Key Features

- Rated up to 50 A
- Socket compatible models available
- Blowout magnet options for high DC voltage switching
- Feature-rich covers, mounting options, and accessories to suit a multitude of applications

	Series	Style	Terminals	Contact Configuration	Contact Current Range (A)	Motor Load Ratings	Page
199 Series Relays	199	Open style	Screw	SPST, SPDT, DPST, DPDT	40 to 50	2 hp at 120 to 600 Vac 50/60 Hz	4
725 Series Relays	725	Plug-in, DIN and panel mount	Quick Connect and Screw	SPST-NO, DPST-NO	25 to 30	SPST: 1.5 hp at 120 Vac 50/60 Hz; 3.0 hp at 277 Vac 50/60 Hz DPST: 1.0 hp at 120 Vac 50/60 Hz; 2.0 hp at 277 Vac 50/60 Hz	9
389F Series Relays	389F	Ice cube plug- in and flange mount	Quick Connect	SPST, SPDT, DPDT, 3PDT	20 to 30	SPST/SPDT/DPDT: 1 hp at 120–200 Vac 50/60 Hz; 1.5 hp at 200–600 Vac 50/60 Hz; LRA/FLA: 98 A / 22 A at 120 Vac 50/60 Hz; 3PDT: 0.5 hp at 120–200 Vac 50/60 Hz;	14
300 Series Relays	300	Flange mount	Quick Connect	DPST-NO	30	1 hp at 120 Vac 50/60 Hz; 2 hp at 208–600 Vac 50/60 Hz	20
92 Series Relays	92	DIN and panel mount	Quick Connect	SPST-NO, DPST-NO	30	1 hp at 120 Vac 50/60 Hz; 3 hp at 240 Vac 50/60 Hz LRA/FLA: 96/22 A at 240 Vac (NO contacts, AC coil) 110/25 A at 240 Vac (NO contacts, DC coil)	23
9A Series Relays	9A	Panel mount	Quick Connect	SPST-NO	3 to 30	1 hp at 125 Vac 50/60 Hz; 2 hp at 240 Vac 50/60 Hz LRA/FLA: 98/22 A at 120 Vac 50/60 Hz (NO contact) 80/30 A at 240 Vac 50/60 Hz (NO contact) 30/12 A at 240 Vac 50/60 Hz (NC contact)	26



Description

Magnecraft Power Relays

199

SPST-NO-DM, 40 A; SPDT, 40 A; DPST-NO, 40 A; DPDT, 40 A*



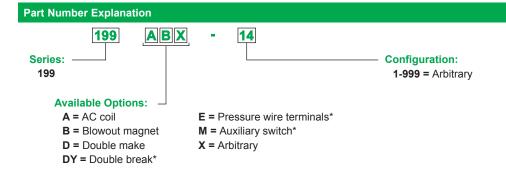
199 Series Relay

Description

The 199 series open type, heavy duty power relays offer high-capacity switching with high dielectric strength.

Feature	Benefit
High-power contacts	Increased contact ratings (up to 50 A, 2 hp) and electrical endurance; suitable for high-power switching applications
Riveted construction	Helps to increase the mechanical life of the relay
Blowout magnet option	Helps to increase DC voltage switching up to 500 V
RoHS compliant	Environmentally friendly; complies with the European Restriction of Hazardous Substances directive

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Special Features	Standard Part Number
		120 Vac	290		199ADX-4
		12 Vdc	70		199DX-2
	SPST-NO-DM	24 Vdc	290	Blowout Magnet	199DBX-3
		24 Vúc	290		199DX-3
		48 Vdc	1200	Blowout Magnet	199DBX-16
		120 Vac	290		199AX-4
	SPDT	12 Vdc	70		199X-2
		24 Vdc	290		199X-3
	DPST-NO	120 Vac	290		199AX-9
		240 Vac	1200		199AX-10
40.4*		12 Vdc	70		199X-7
40 A*		24 Vdc	290		199X-8
		24 Vac	12		199AX-13
		120 Vac	290	Blowout Magnet	199ABX-14
					199AX-14
		240 Vac	1200		199AX-15
	DPDT	40.1/1	70	Blowout Magnet	199BX-12
	UPUT	12 Vdc			199X-12
		24 Vdc	290	Blowout Magnet	199BX-13
			290		199X-13
		110 Vdc	6000	Blowout Magnet	199BX-14
			0000		199X-14





Specifications

Magnecraft Power Relays

199 SPST-NO-DM, 40 A*; SPDT, 40 A; DPST-NO, 40 A; DPDT, 40 A*

Specifications (UL 508)

Part Numbers	199AX, 199X, 199ABX ¹ , 199BX ¹	199ADX, 199DX, 199DYX, 199DBX ¹		
Contact Characteristics				
Contact Configuration	SPST, SPDT, DPST, DPDT	SPST-DM, SPST-DB		
Contact Material	Silver alloy			
Thermal (Carrying) Current	40 A			
Maximum Switching Voltage	600 V(rms)			
Rated Switching Current at Voltage	Resistive: 40 A at 300 Vac 50/60 Hz; 5 A at 480 Vac 50/60 Hz; 5 A at 600 Vac 50/60 Hz; 40 A at 28 Vdc	Resistive: 40 A at 300 Vac 50/60 Hz; 12 A at 480 Vac 50/60 Hz; 10 A at 600 Vac 50/60 Hz; 40 A at 28 Vdc		
	Motor: 2 hp at 120-600 Vac 50/60 Hz			
	Tungsten: 15 A at 120 Vac 50/60 Hz			
	Pilot Duty: A600			
Minimum Switching Requirement	1 A at 5 Vac/Vdc			
Coil Characteristics				
Coil Voltage Range ²	6–600 Vac 50/60 Hz; 6–250 Vdc ²			
Operating Range (% of Nominal)	85%-110% (AC); 80%-110% (DC)			
Average Consumption (Maximum)	10 VA (AC); 4 W (DC)			
Drop-Out Voltage Threshold	10% (AC/DC)			
General Characteristics				
Electrical Life at Rated Load (Resistive)	Refer to Table 3 on page 6	Refer to Table 3 on page 6		
Maximum Operating Time (Response Time)	30 ms			
Dielectric Strength	Between coil and contact: 2200 V	Between coil and contact: 2200 V		
	Between poles: 2200 V	N/A		
	Between open contacts: 1500 V	Between open contacts: N/A		
Storage Temperature Range	-55 to +100 °C (-67 to +212 °F)			
Operating Temperature Range	-55 to +55 °C (-67 to +131 °F)			
Maximum Wire Capacity	10 AWG (5.3 mm ²)			
Terminal Tightening Torque	11–15 in-lb (1.2–1.7 N•m)			
Weight	227–312 g (8–11 oz)			
Agency Approvals UL (E43641), CSA (168986), CE (per IEC 60947-1), RoHS				

Note: Actual product performance may vary depending on application and environmental conditions.

¹ For ratings with blowout magnet, refer to Table 1 below.

² For available standard coil voltages, refer to the standard part number table on page 4.

Table 1: Additional DC Ratings with Blowout Magnet

Load Voltage	Contact Rating
110 Vdc	20 A
220 Vdc	8 A
325 Vdc	4 A
500 Vdc	2 A

Table 2: Auxiliary Switch Ratings (Non-Standard Option)

Load Type	Contact Rating
Resistive Load 120/250 Vac (50/60 Hz)	10 A
Motor Load 125/250 Vac (50/60 Hz)	0.25 hp
Tungsten Load 125 Vac (50/60 Hz)	3 A



199 SPST-NO-DM, 40 A*; SPDT, 40 A; DPST-NO, 40 A; DPDT, 40 A*

Table 3: Contact Ratings and Electrical Endurance (per IEC 60947-1, 60947-4-1)

Contact Ratings	Load Voltage	Frequency	Load Type	Estimated Electrical Endurance	See Note(s)
AC Load					
40 A	300 V	50/60 Hz	Resistive	50,000 cycles	1, 3
2 hp	120–600 V]	Motor	50,000 cycles	2, 3
15 A	120 V		Tungsten	20,000 cycles	3, 4
A600			Pilot Duty	100,000 cycles	3
DC Load					
40 A	28 V	DC	Resistive	100,000 cycles	3
20 A	110 V				
8 A	220 V				
4 A	325 V]			
2 A	500 V]			

Notes:

1. Resistive AC load ratings are based on a power factor of 0.85–1.0.

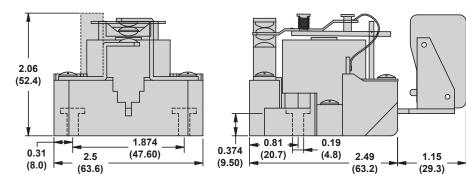
2. Motor horsepower ratings are based on a power factor of 0.4–0.5, and an initial inrush current not exceeding six times the full-load current.

3. All ratings are based on applying the rated nominal power to the relay coil so as to provide a "clean" make and break that does not result in any contact chatter or multiple actuation of the contacts.

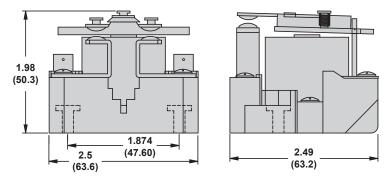
4. The tungsten rating is based on cold-filament inrush current not exceeding 15 times the rated steady-state lamp current.

Dimensions — inches (millimeters)

SPDT—Short Base (shown with optional Auxiliary Switch)



SPST-NO-DM



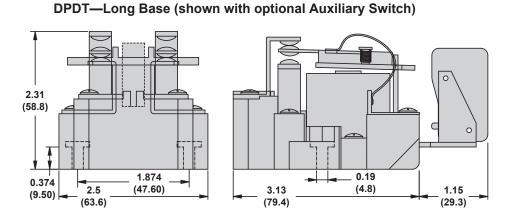


Dimensions (continued), Wiring Diagrams

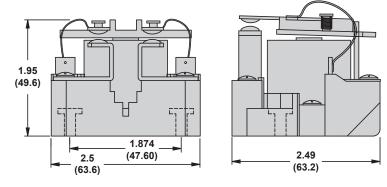
Magnecraft Power Relays

199 SPST-NO-DM, 40 A*; SPDT, 40 A; DPST-NO, 40 A; DPDT, 40 A*

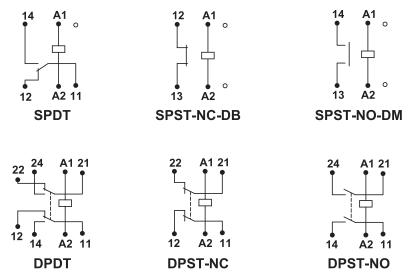
Dimensions — inches (millimeters)



DPST-NO



Wiring Diagrams







199

Metal Enclosure, 50-1289-1

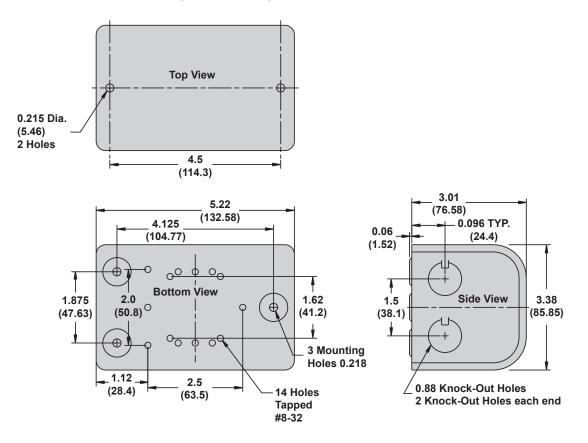


Description

The 50-1289-1 metal enclosure provides cover and protection as well as alternate wiring and mounting options.

Description	Function	Weight	For Use with Relays	Packaging Minimum	Standard Part Number
Metal Enclosure	Covers and protects relays	Approx. 1 lb (16 oz)	199 Series Relays	1	50-1289-1

Dimensions — inches (millimeters)





Description

Magnecraft Power Relays 725

SPST-NO, 30 A; DPST-NO, 25 A



Description

The 725 series power relays offer high-capacity switching with high dielectric voltage resistance capabilities.

ecraft and a state	Feature	Ве
	High ratings (up to 30 A, 3 hp)	Me
V	4,000 V dielectric strength (coil to contacts)	
V	Multiple mounting options	Hel
9	Full-feature cover (Plug-in socket mount)	Offe tors
	Fingersafe cover (on relays with screw terminals)	Hel (IP)

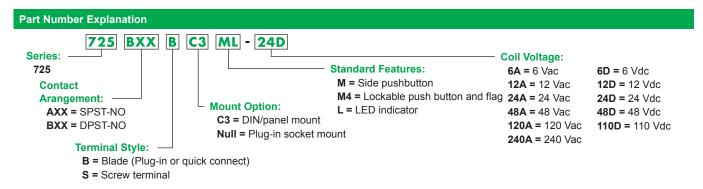
cover



Panel/DIN Mount with screw terminals

Feature	Benefit		
High ratings (up to 30 A, 3 hp)	Meets demands for high power applications		
4,000 V dielectric strength (coil to contacts)	Helps withstand severe voltage surges and spikes which provides protection for surrounding circuits		
Multiple mounting options	Helps to increase functionality and ease of use		
Full-feature cover (Plug-in socket mount)	Offers push-to-test button, lock-down door, LED, flag indica- tors, and ID tag to simplify and expedite installation and testing		
Fingersafe cover (on relays with screw terminals)	Helps prevent the operator from touching live circuits (IP20 degree of protection)		

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Mounting Style	Terminal Style	Standard Part Number
		24 Vac	275	DIN and panel	Blade terminals	725BXXBC3ML-24A
		24 Vac	215		Screw terminals	725BXXSC3ML-24A
				DIN and nanal	Blade terminals	725BXXBC3ML-120A
		120 Vac	5200	DIN and panel	Screw terminals	725BXXSC3ML-120A
				Plug-in (socket)	Blade terminals	725BXXBM4L-120A
25 A	DPST-NO	240 Vac			Blade terminals	725BXXBC3ML-240A
25 A	DPST-NO	240 vac	21000	DIN and panel	Screw terminals	725BXXSC3ML-240A
		40.)/da	75 DI	DIN and need	Blade terminals	725BXXBC3ML-12D
		12 Vdc		DIN and panel	Screw terminals	725BXXSC3ML-12D
		24 Vdc	300	DIN and panel	Blade terminals	725BXXBC3ML-24D
					Screw terminals	725BXXSC3ML-24D
				Plug-in (socket)	Blade terminals	725BXXBM4L-24D
		24 Vac	275	DIN and panel	Blade terminals	725AXXBC3ML-24A
					Screw terminals	725AXXSC3ML-24A
				Plug-in (socket)	Blade terminals	725AXXBM4L-24A
			5200	DIN	Blade terminals	725AXXBC3ML-120A
		120 Vac		DIN and panel	Screw terminals	725AXXSC3ML-120A
30 A	SPST-NO			Plug-in (socket)	Blade terminals	725AXXBM4L-120A
		240.1/	04000	DIN and namel	Blade terminals	725AXXBC3ML-240A
		240 Vac	21000	DIN and panel	Screw terminals	725AXXSC3ML-240A
		40.1/1	75	DIN	Blade terminals	725AXXBC3ML-12D
		12 Vdc 7	75	DIN and panel	Screw terminals	725AXXSC3ML-12D
		24 Vdc	300	DIN and panel	Blade terminals	725AXXBC3ML-24D





Specifications

Magnecraft Power Relays

725 SPST-NO, 30 A; DPST-NO, 25 A

Specifications (UL 508)

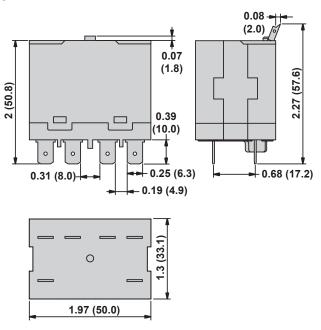
5		
s		
Coil: M3.5 combination head; Contacts: M4 combination head		
Load: 10 AWG (5.26 mm²); Coil: 12 AWG (3.3 mm²)		
IP20 (screw terminals only)		

Note: Actual product performance may vary depending on application and environmental conditions. ¹ For available standard coil voltages, refer to the standard part number table on page 9.

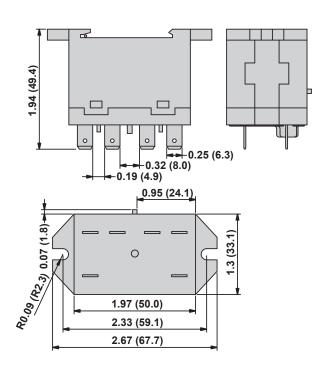
725 SPST-NO, 30 A; DPST-NO, 25 A

Dimensions — inches (millimeters)

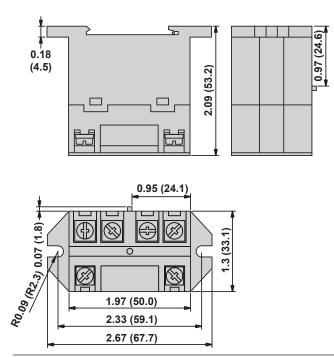
Plug-in Socket Mount (Blade Terminals)

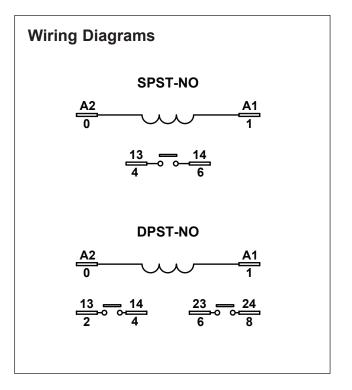


C3 – DIN/Panel Mount (Blade Terminals)



C3 – DIN/Panel Mount (Screw Terminals)

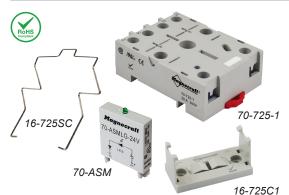






725

Socket, 70-725-1; Panel Mount Adapter, 16-725C1 Spring Clip, 16-725SC; Socket Modules, 70-ASM



Description

The 725 accessories create a complete system solution for all your application needs.

The 70-725-1 socket offers an alternate installation option for plug-in models. The 16-725SC retention clip holds the relay securely in place while allowing quick and efficient installation and maintenance.

Relay Accessories

Description	Function		Packaging Minimum	Standard Part Number
Socket	Offers an alternate installation option	725 Relays with plug-in socket mount cover	10	70-725-1
Panel Mount Adapter	Provides additional panel mount option	725 Relays with plug-in socket mount cover	10	16-725C1

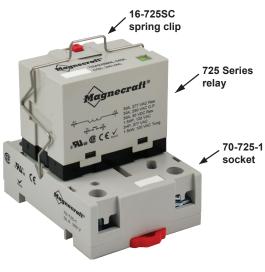
Socket Accessories

Description	Function	Coil Voltage	For Use with Sockets	Packaging Minimum	Standard Part Number
	LED indicator	120/240 Vac/Vdc	70-725-1	10	70-ASMLG-110/240
	MOV suppressor	24 Vac/Vdc	70-725-1	10	70-ASMM-24
On alvat Madula*		120 Vac/Vdc	70-725-1	10	70-ASMM-120
Socket Module*		240 Vac/Vdc	70-725-1	10	70-ASMM-240
	Protection diode	6–250 Vdc	70-725-1	10	70-ASMD-250
	RC circuit	240 Vac	70-725-1	10	70-ASMR-240
Spring Clip	Relay retention in high vibration conditions	N/A	70-725-1	10	16-725SC

* Use of LED or RC socket module may increase coil power draw by up to 10%. See page 30 for more information.

Socket Specifications (UL 508)

Part Number	70-725-1
Number of Terminals	6
Nominal Voltage Rating	300 V
Nominal Current Rating	30 A
Dielectric Strength	Between adjacent output terminals: 1600 V(rms); Output to input terminals: 1600 V(rms); Terminals to rail/chassis: 1600 V(rms)
Temperature Range	Operation: -40 to +55 °C (-40 to +131 °F); Storage: -40 to +105 °C (-40 to +221 °F)
Protection Category (Fingersafe [™])	IP20
Internal Metal Tracks	Copper alloy, tin plated
Screw Terminals	Steel, zinc-plated combination head
Maximum Screw Torque	10.6 lb-in (1.2 N•m)
Mounting Style	35 mm DIN rail
Wire Connection Method	Screw terminals
Wire Size	Solid Cu: one 10 AWG (6.0 mm²) two 10–20 AWG (0.5–6 mm²) Stranded Cu: one or two 10–20 AWG (0.5–6.0 mm²)
Flammability Rating	94 V-0
Weight	2.4 oz (67 g)
Product Certifications	UL (E70550), CSA (40787), CE (per IEC 61810), RoHS



Relay Mounting Example:



Dimensions, Wiring Diagram

Magnecraft Power Relays

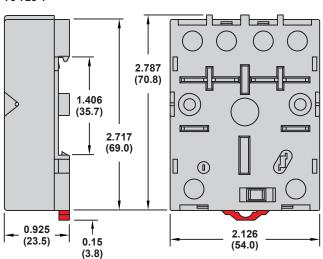
16-725SC

725

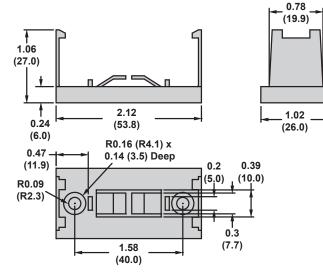
Socket, 70-725-1; Panel Mount Adapter, 16-725C1 Spring Clip, 16-725SC; Socket Modules, 70-ASM

Dimensions — inches (millimeters)

70-725-1



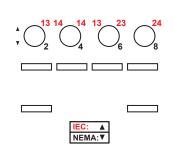
16-725C1



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Wiring Diagram

70-725-1





Description

Magnecraft Power Relays

389F SPST, 30 A; DPDT, 20-25 A; SPDT, 25-30 A; 3PDT, 20 A





Plug-In (Socket) Cover

Side Flange Cover

Description

The 389F series power relays offer a broad range of contact ratings along with a variety of mounting options and accessories, making it the ideal solution for a variety of application requirements.

Feature	Benefit
High-power contacts	High contact ratings (up to 30 A, 1.5 hp) and long electrical endurance; suitable for high-power switching applications
Ballast load ratings	Ideal for lighting controls
Multiple contact configurations	Meets a wide variety of applications
Socket mountable (plug-in cover only)	Helps increase design and installation flexibility; allows the use of modules and other accessories
RoHS compliant	Environmentally friendly; complies with the European Restriction of Hazardous Substances directive

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Cover Style	Standard Part Number	
		12 Vac	17.7	Side flange	389FXCXC1-12A	
		04.)/22	72	Side flange	389FXCXC1-24A	
		24 Vac	12	Plug-in (socket)	389FXCXC-24A	
		120 Vac	1700	Plug-in (socket)	389FXCXC-120A	
		120 Vac	1700	Side flange	389FXCXC1-120A	
20 A	3PDT	240 Vac	7200	Plug-in (socket)	389FXCXC-240A	
		240 Vac	7200	Side flange	389FXCXC1-240A	
		12 Vdc	100	Plug-in (socket)	389FXCXC-12D	
		12 VUC	100	Side flange	389FXCXC1-12D	
		24 Vdc	400	Plug-in (socket)	389FXCXC-24D	
		24 VUC	400	Side flange	389FXCXC1-24D	
		24 Vac	72	Plug-in (socket)	389FXBXC-24A	
	DPDT	24 Vac	12	Side flange	389FXBXC1-24A	
		120 Vac	1700	Plug-in (socket)	389FXBXC-120A	
				Side flange	389FXBXC1-120A	
		240 Vac	7200	Plug-in (socket)	389FXBXC-240A	
				Side flange	389FXBXC1-240A	
		12 Vdc	100	Plug-in (socket)	389FXBXC-12D	
5 A				Side flange	389FXBXC1-12D	
			24 Vdc	400	Plug-in (socket)	389FXBXC-24D
			24 VUC	400	Side flange	389FXBXC1-24D
		24 Vac	72	Side flange	389FXAXC1-24A	
		120 Vac	1700	Side flange	389FXAXC1-120A	
	SPDT	240 Vac	7200	Side flange	389FXAXC1-240A	
		12 Vdc	100	Side flange	389FXAXC1-12D	
		24 Vdc	400	Side flange	389FXAXC1-24D	
		24 Vac	72	Side flange	389FXHXC1-24A	
		120 Vac	1700	Side flange	389FXHXC1-120A	
	SPDT-DM-DB	240 Vac	7200	Side flange	389FXHXC1-240A	
		12 Vdc	100	Side flange	389FXHXC1-12D	
• •		24 Vdc	400	Side flange	389FXHXC1-24D	
0 A		24 Vac	72	Side flange	389FHXXC1-24A	
		120 Vac	1700	Side flange	389FHXXC1-120A	
	SPST-NO-DM	240 Vac	7200	Side flange	389FHXXC1-240A	
		12 Vdc	100	Side flange	389FHXXC1-12D	
		24 Vdc	400	Side flange	389FHXXC1-24D	



Specifications

Magnecraft Power Relays

389F SPST, 30 A; DPDT, 20-25 A; SPDT, 25-30 A; 3PDT, 20 A

Specifications

Part Number	389FXAX, XBX	389FXCX	389FXHX, HXX		
Contact Characteristics					
Contact Configuration	SPDT; DPDT	3PDT	SPST-NO-DM; SPDT-DM-DB		
Contact Material	Silver alloy		1		
Thermal (Carrying) Current	25 A	20 A	30 A		
Maximum Switching Voltage	600 V	300 V	600 V		
Rated Switching Current at Voltage Conforming to IEC AC-1 and DC-1)	NO and NC: 25 A at 250 Vac NO and NC: 15 A at 28 Vdc	NO and NC: 20 A at 250 Vac NO and NC: 15 A at 28 Vdc	NO and NC: 30 A at 250 Vac NO and NC: 30 A at 28 Vdc		
Current Ratings at Voltage (Conforming to UL)	Resistive: 25 A at 300 Vac 50/60 Hz; 13 A at 28 Vdc, 100,000 cycles Motor: 1.5 hp at 200–240 Vac 50/60 Hz; 1 hp at 120–200 and 480–600 Vac ³ 50/60 Hz, 6,000 cycles Pilot Duty: B600, 6,000 cycles FLA/LRA: 22/98 A at 120 Vac, 6,000 cycles Ballast: 20 A, 277 Vac 50/60 Hz, 6,000 cycles	Resistive: 20 A at 150 Vac 50/60 Hz, 15 A at 250 Vac, 50/60 Hz 13 A at 28 Vdc, 50,000 cycles Motor: 0.5 hp at 120–240 Vac 50/60 Hz; 6,000 cycles Pilot Duty: B300, 6,000 cycles Ballast: 20 A, 150 Vac 50/60 Hz 6,070 A at 277 Vac 6,000 cycles	Resistive: 30 A at 300 Vac 50/60 Hz 10 A at 600 Vac 50/60 Hz 30 A at 28 Vdc, 100,000 cycles Motor: 1.5 hp at 200–600 Vac 50/60 Hz; 1 hp at 120–200 Vac 50/60 Hz, 6,000 cycles Pilot Duty: A600, 6,000 cycles FLA/LRA: 22/98 A at 120 Vac, 6,000 cycles; 17/60 A at 300 Vac, 6,000 cycles Ballast: 25 A, 277 Vac 50/60 Hz, 6,000 cycles		
Minimum Switching Requirement	100 mA at 5 Vdc				
Coil Characteristics					
Coil Voltage Range ¹	12-240 Vac 50/60 Hz; 12-24 Vdc1				
Operating Range (% of Nominal)	85%–110% (AC); 80%–110% (DC)				
Average Consumption	2 VA (AC); 1.5 W (DC)				
Drop-out Voltage Threshold	10% minimum (AC/DC)				
General Characteristics					
Electrical Life at Rated Load ²	100,000 operations for IEC AC-1, 50,000) operations for IEC DC-1			
Mechanical Life at No Load Unpowered)	5,000,000 operations				
Operate Time at Nominal Coil Voltage	20 ms (maximum)				
Dielectric Strength	Between coil and contact: 2200 Vac; bet	ween poles: 2200 Vac; between contact	ts: 1600 Vac		
Operating Temperature Range	-30 to +55 °C (-22 to +131 °F)				
Storage Temperature Range	-30 to +85 °C (-22 to +185 °F)				
Weight (Average)	84 g (3.0 oz)				
Product Certifications	UL (E164862), CE (per IEC 60947), CSA (File: 044087 Class: 3211-07), RoHS				

¹ For available standard coil voltages, refer to the standard part number table on page 14.
 ² The NO and NC contacts were tested independently.
 ³ Break all lines for 1 hp at 600 Vac, 50/60 Hz.

Part Number Explanation



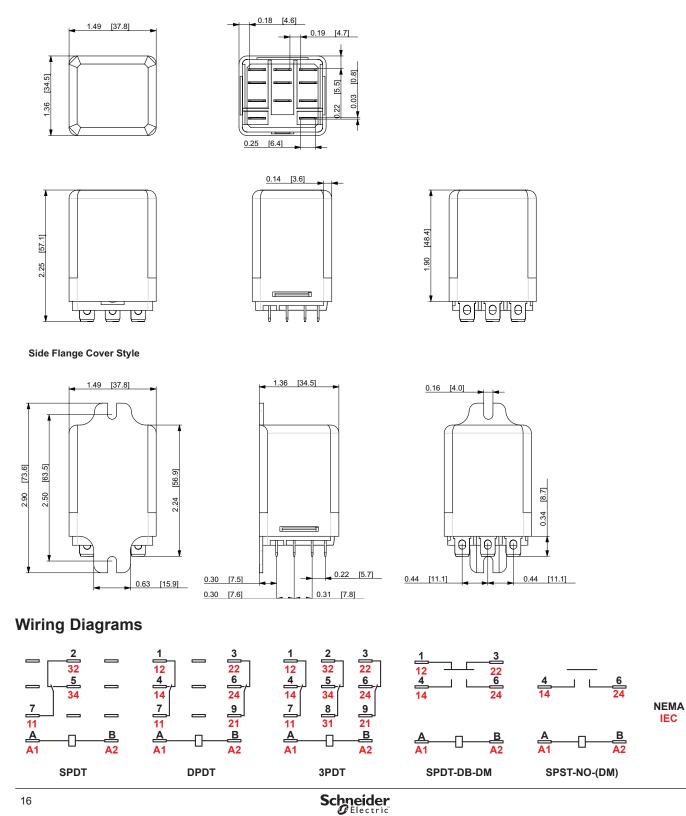
Dimensions, Wiring Diagrams

Magnecraft Power Relays

389F SPST, 30 A; DPDT, 20-25 A; SPDT, 25-30 A; 3PDT, 20 A

Dimensions — inches (millimeters)

Plug-in Cover Style





389F Socket, 70-788EL11-1



Relay Accessories

Description	Function	For Use with Relays	Packaging Minimum	Standard Part Number
Socket	Offers an alternate installation option	389F relays with plug-in (socket) cover	10	70-788EL11-1

Socket Accessories

Description	Function	Coil Voltage	For Use with Sockets	Packaging Minimum	Standard Part Number
	LED indicator	120/240 Vac/Vdc	70-788EL11-1	10	70-ASMLG-110/240
		24 Vac/Vdc	70-788EL11-1	10	70-ASMM-24
Socket Module*	MOV suppressor	120 Vac/Vdc	70-788EL11-1	10	70-ASMM-120
Socket wodule		240 Vac/Vdc	70-788EL11-1	10	70-ASMM-240
	Protection diode	6–250 Vdc	70-788EL11-1	10	70-ASMD-250
	RC circuit	240 Vac	70-788EL11-1	10	70-ASMR-240
ID Tag/Label*	Identification of circuits in multi-relay applications	N/A	70-788EL11-1	10	16-750/788FT-1
Panel Mount Adapter	Mounting socket to a panel	N/A	70-788EL11-1	10	16-788C1
Metal DIN Rail*	Quick installation and removal of sockets	N/A	70-788EL11-1	20	16-700DIN
DIN Rail Clip*	DIN Rail Clip* Holds sockets firmly in place on DIN rail		70-788EL11-1	10	16-DCLIP-1

* Use of LED or RC socket module may increase coil power draw by up to 10%. See page 30 for more information.

Socket Specifications (UL 508)

Part Number	70-788EL11-1
Number of Terminals	11
Nominal Voltage Rating	300 V
Nominal Current Rating	25 A
Dielectric Strength	Between adjacent output terminals: 3000 V(rms); Output to input terminals: 3000 V(rms); Terminals to rail/chassis: 3000 V(rms)
Temperature Range	Operation: -40 to +80 °C (-40 to +176 °F); Storage: -40 to +105 °C (-40 to +221 °F)
Protection Category (Fingersafe [™])	IP20
Internal Metal Tracks	Copper alloy, Tin plated
Screw Terminals	Steel, Zinc plated combination head
Maximum Screw Torque	9.0 lb-in (1.0 N•m)
Mounting Style	35 mm DIN rail; mounts to panel with 16-788C1 adapter
Wire Connection Method	Elevator terminals
Wire Size	Solid Cu: two 10–12 AWG (4.0–6.0 mm²) Stranded Cu: two 10–12 AWG (4.0–6.0 mm²)
Flammability Rating	94V-0
Weight	3.39 oz (96 g)
Product Certifications	UL (E70550), CSA (40787), CE (per IEC 61984), RoHS



70-788EL11-1



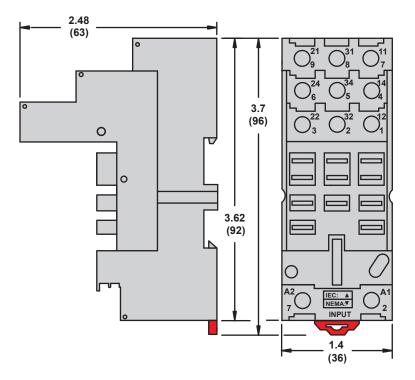
Dimensions

Magnecraft Power Relays

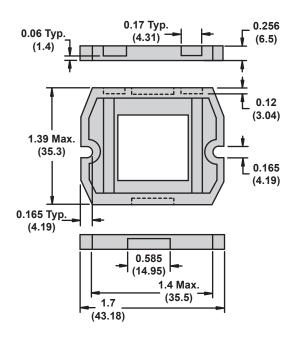
389F Socket, 70-788EL11-1

Dimensions — inches (millimeters)

70-788EL11-1



16-788C1 Panel Mount Adapter for 70-788EL11 socket

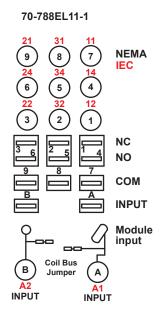


Wiring Diagram

Magnecraft Power Relays

389F Socket, 70-788EL11-1

Wiring Diagram





Description

Magnecraft Power Relays

DPDT, 30 A



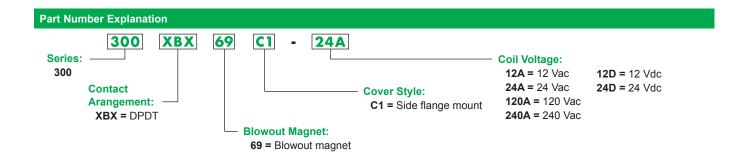
300 Series Relay

Description

The 300 series power relays offer high-amperage DPDT performance in a standard flange-mounting device. Combined with the optional blowout magnet feature, the 300 series is designed for high-voltage DC or AC switching.

Feature	Benefit
High-power contacts	High contact ratings (up to 30 A, 2 hp) and long electrical endurance; suitable for high-power switching applications
Improved dielectric strength	4000 V(rms) between mutually isolated conductive elements and frame
Increased spacing between stationary contact terminals	Enables fully booted Quick Connect terminals
2 mm contact gap and 8 mm creepage and clearance	Meets international requirements
Blowout magnet option	Ideal for DC voltage switching

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Cover Style	Standard Part Number
		12 Vac	13.5	Side flange mount	300XBXC1-12A
	24 Vac 120 Vac 30 A DPDT 240 Vac 12 Vdc 24 Vdc	24 Vac	54	Side flange mount	300XBXC1-24A
20.4		120 Vac	1270	Side flange mount	300XBXC1-120A
			240 Vac	5400	Side flange mount
30 A		12 Vdc	57	Side flange mount	300XBXC1-12D
			Vdc 300 Si	Side flange mount	300XBXC1-24D
		24 Vdc		Side flange mount (with magnetic blowout)	300XBX69C1-24D



Specifications

Magnecraft Power Relays 300

DPDT, 30 A

Specifications (UL 508)

Part Number	300XBX ¹
Contact Characteristics	
Contact Configuration	DPDT
Contact Material	Silver alloy
Thermal (Carrying) Current	30 A
Maximum Switching Voltage	600 V
Current Ratings at Voltage ¹	Resistive: 30 A at 300 Vac 50/60 Hz; 30 A at 28 Vdc; 15 A at 600 Vac 50/60 Hz
	Motor: 1 hp at 120 Vac 50/60 Hz; 2 hp at 208–600 Vac 50/60 Hz ²
	Pilot Duty: 5.5 A at 120 Vac 50/60 Hz; 1.2 A at 600 Vac 50/60 Hz
Minimum Switching Requirement	500 mA at 5 Vdc
Coil Characteristics	
Coil Voltage Range ³	12–240 Vac 50/60 Hz; 12–24 Vdc
Operating Range (% of Nominal)	85%-110% (AC); 80%-110% (DC)
Average Consumption	3.4 VA (AC at 60 Hz); 2.3 W (DC)
Drop-out Voltage Threshold	15% (AC); 10% (DC)
General Characteristics	
Electrical Life at Rated Load	6,000 operations
Mechanical Life at No Load (Unpowered)	5,000,000 operations
Operate Time at Nominal Coil Voltage	20 ms
Dielectric Strength	Between coil and contact: 4000 Vac; Between poles: 2500 Vac; Between contacts: 2500 Vac
Operating Temperature Range	-40 to +55 °C (-40 to +131 °F)
Storage Temperature Range	-40 to +85 °C (-40 to +185 °F)
Weight (Average)	without blowout magnet: 85 g (3.0 oz) with blowout magnet: 95 g (3.4 oz)
Product Certifications	UL (E164862), CSA (File: 044087 Class: 3211-07), RoHS

Note: Actual product performance may vary depending on application and environmental conditions. ¹ For additional ratings with blowout magnet, refer to Table 3 below. ² Break all lines for 2 hp / 480–600 Vac, 50/60 Hz.

³ For available standard coil voltages, refer to the standard part number table on page 20.

Table 3: Additional DC Ratings with Blowout Magnet

Load Voltage	Contact Rating
150 Vdc	5 A



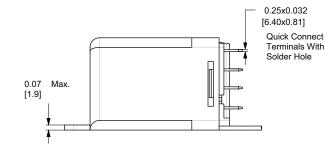
Dimensions, Wiring Diagram

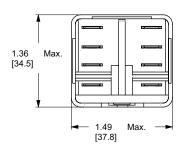
Magnecraft Power Relays

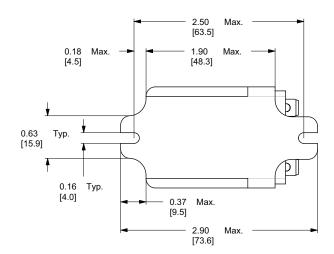
300 DPDT, 30 A

Dimensions — inches (millimeters)

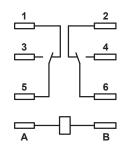
Side Flange Mount Cover







Wiring Diagram



DPDT

Description

Magnecraft Power Relays

92 DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)



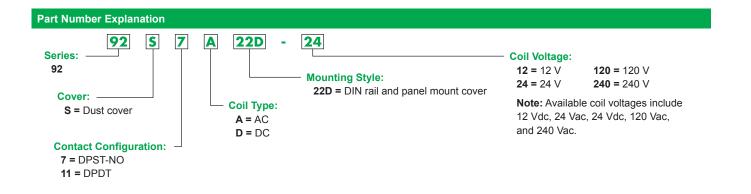
Description

The 92 series power relays offer a small package size and features Class F insulation for a maximum coil temperature of 155 $^{\circ}$ C (311 $^{\circ}$ F). These power relays meet UL508 spacing and are directly DIN or panel mountable.

Feature	Benefit
Standard Class F insulation	Allows for maximum coil temperature of 155 °C (311 °F) which is ideal for elevated temperature applications
DIN and panel mount cover	Mounts directly onto DIN rail or panel and provides flexibility to accommodate last minute design changes
Sealed construction, vented	To resist dust and debris in harsh environments

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Standard Part Number
		24 Vac	170 ¹	92S7A22D-24
		120 Vac	4250 ¹	92S7A22D-120
30 A [DPST-NO	240 Vac	16500 ¹	92S7A22D-240
		12 Vdc	86	92S7D22D-12
		24 Vdc	350	92S7D22D-24
		24 Vac	170 ¹	92S11A22D-24
		120 Vac	4250 ¹	92S11A22D-120
30 A (NO) / 3 A (NC)	DPDT	240 Vac	16500 ¹	92S11A22D-240
		12 Vdc	86	92S11D22D-12
		24 Vdc	350	92S11D22D-24

¹ All AC coils are rectified.



Specifications

Magnecraft Power Relays

92 DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)

Specifications

Part Number	92S7	92S11	
Contact Characteristics			
Contact Configuration	DPST-NO	DPDT	
Contact Material	Silver alloy	- · - ·	
Thermal (Carrying) Current	30 A	30 A (NO); 3 A (NC)	
Maximum Switching Voltage (Conforming to IEC)	250 Vac / 28 Vdc		
Maximum Switching Voltage (Conforming to UL)	300 Vac / 28 Vdc		
Current Ratings at Voltage (Conforming to IEC)	(NO) 30 A at 250 Vac; 25 A at 28 Vdc, 100,000 cycles	(NO) 30 A at 250 Vac; 25 A at 28 Vdc, 100,000 cycles (NC) 3 A at 250 Vac; 3 A at 28 Vdc, 100,000 cycles	
Current Ratings at Voltage (Conforming to UL)	 (NO) General Use: 30 A at 277 Vac, 100,000 cycles Resistive: 20 A at 28 Vdc, 100,000 cycles Motor: 1.0 hp at 120 Vac; 3.0 hp at 240 Vac, 100,000 cycles LRA/FLA : 96 A / 22 A @ 240 Vac (AC coil), 30,000 cycles; 110 A / 25.3 A @ 240 Vac (DC coil), 30,000 cycles Pilot Duty: 720 VA / A300, 6,000 cycles Short Circuit: 5000 A(rms) @ 240 Vac Tungsten: 10 A at 120 Vac 50/60 Hz, 25,000 cycles; 6 A at 250 Vac 50/60 Hz, 25,000 cycles 	 (NO) General Use: 30 A at 277 Vac, 100,000 cycles Resistive: 20 A at 28 Vdc, 100,000 cycles Motor: 1.0 hp at 120 Vac; 3.0 hp at 240 Vac, 100,000 cycles LRA/FLA: 96 A / 22 A @ 240 Vac (AC coil), 30,000 cycles; 110 A / 25.3 A @ 240 Vac (DC coil), 30,000 cycles; Pilot Duty: 720 VA / A300, 6,000 cycles Short Circuit: 5000 A(rms) @ 240 Vac Tungsten: 10 A at 120 Vac 50/60 Hz, 25,000 cycles; 6 A at 250 Vac 50/60 Hz, 25,000 cycles; 3 A at 28 Vdc 100,000 cycles 	
Switching Capacity	Maximum: 7500 VA / 840 W (when mounted with 13 mm gap between 2 relays); 6250 VA / 700 W (when mounted side by side without a gap) Minimum: 170 mW		
Minimum Switching Requirements	10 mA at 17 V		
Coil Characteristics			
Coil Voltage Range ¹	12–240 Vac ² 50/60 Hz; 12–24 Vdc		
Operating Range (% of Nominal)	80%-110%		
Average Consumption	4 VA -20% / +10% (AC); 1.7 W -20% / +10% (DC)		
Drop-out Voltage Threshold			
General Characteristics			
Electrical Life at Rated Load	Resistive load: 100,000 cycles, unless otherwise specified under " Inductive load: See load curves on page 25.	Current Ratings at Voltage"	
Mechanical Life at No Load (Unpowered)	5,000,000 operations		
Operating Time (Response Time) at Nominal Coil Voltage	25 ms maximum		
Rated Impulse Withstand	4000 V (1.2 μs / 50 μs)		
Dielectric Strength	Between coil and contact: 4000 Vac Between poles: 2000 Vac Between contacts: 1500 Vac		
Operating Temperature Range	-40 to +55 °C (-40 to +131 °F)		
Storage Temperature Range	-40 to +85 °C (-40 to +185 °F)		
Vibration Resistance	± 1 mm (10–35 Hz) and 3 g-n (35–150 Hz)		
Shock Resistance	10 g-n (in operation) / 30 g-n (not in operation)		
Weight (Average)	0.082 kg (0.181 oz)		
Conformity to Standards	IEC/EN 61810-1, UL 508, CSA C22-2 n°14		
Product Certifications and Standards	UL Listed (E48539), CSA (2582574), CE, RoHS		

Note: Actual product performance may vary depending on application and environmental c ¹ For available standard coil voltages, refer to the standard part number table on page 23. ² All AC coils are rectified.

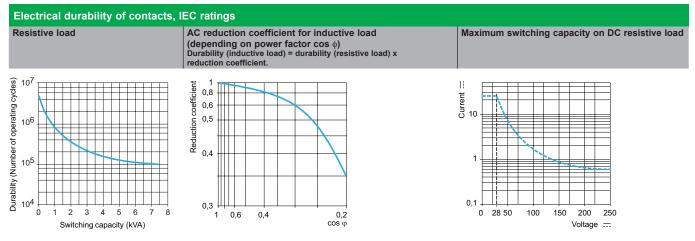


Specifications (continued), Dimensions, Wiring Diagrams

Magnecraft Power Relays

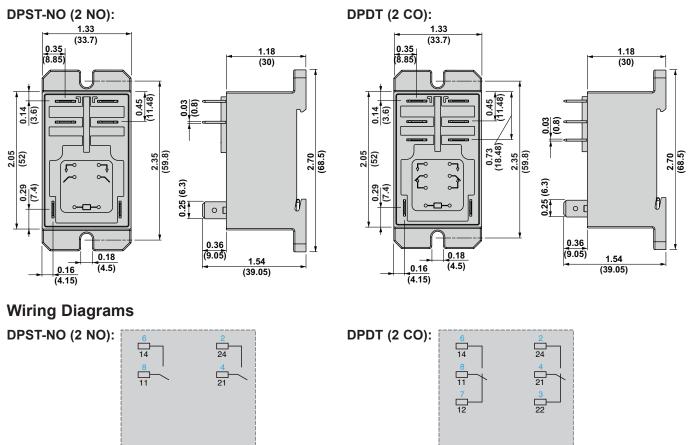
92 DPST-NO, 30 A; DPDT, 30 A (NO) / 3 A (NC)

Specifications (continued)



Note: These curves are for reference only and are typical values only. Actual performance depends on the actual load, environment, duty cycle, and other conditions specific to the application.

Dimensions — inches (millimeters)





A2

A2

Description





Magnecraft Power Relays

9A SPST-NO, 30 A; SPDT, 30 A (NO) / 15 A (NC)

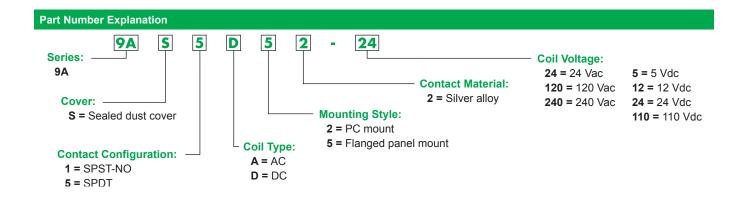
Description

The 9A series power relays offer robust performance in applications such as HVAC, motor controls, and alarm systems.

Feature	Benefit
Standard Class F insulation	Allows for maximum coil temperature of 40 °C (284 °F) which is ideal for high temperature applications
FLA/LRA and hp ratings	Capable of handling motor loads
Ballast load ratings	Suitable for lighting control applications
Small package size	Ideal for small spaces
Standard Quick Connect terminals	Simplifies and expedites installation

Rated Contact Current	Contact Configuration	Coil Voltage	Coil Resistance (Ω)	Standard Part Number
		24 Vac	500	9AS1A52-24
		120 Vac	3000	9AS1A52-120
30 A	SPST-NO	5 Vdc	25	9AS1D52-5
		12 Vdc	144	9AS1D52-12
		24 Vdc	576	9AS1D52-24
		24 Vac	500	9AS5A52-24
		120 Vac	3000	9AS5A52-120
20 A (NO): 15 A (NO)	SPDT	240 Vac	12100	9AS5A52-240
30 A (NO); 15 A (NC)		5 Vdc	25	9AS5D52-5
		12 Vdc	144	9AS5D52-12
		24 Vdc	576	9AS5D52-24

Note: PC mounting versions available. Call (847) 441-2540 for more information.



Specifications

Magnecraft Power Relays

9A SPST-NO, 30 A; SPDT, 30 Å (NO) / 15 Å (NC)

Specifications (UL 508)

Part Number	9AS1	9AS5	
Contact Characteristics			
Contact Configuration	SPST-NO	SPDT	
Contact Material	Silver alloy		
Thermal (Carrying) Current	30 A	30 A (NO); 15 A (NC)	
Maximum Switching Voltage	300 V		
Current Ratings at Voltage	Resistive: 30 A at 240 Vac 50/60 Hz; 30 A at 28 Vdc, 100,000 cycles	Resistive: 30 A at 240 Vac 50/60 Hz (NO); 15 A at 240 Vac 50/60 Hz (NC); 30 A at 28 Vdc (NO); 10 A at 28 Vdc (NC), 100,000 cycles	
	Motor: 1 hp at 125 Vac 50/60 Hz; 2 hp at 240 Vac 50/60 Hz, 1,000 cycles	Motor: 1 hp at 125 Vac 50/60 Hz (NO); 1/4 hp at 125 Vac 50/60 Hz (NC); 2 hp at 240 Vac 50/60 Hz (NO); 1/2 hp at 240 Vac 50/60 Hz (NC), 1,000 cycles	
	FLA/LRA: 22/98 A (NO) at 120 Vac 50/60 Hz, 30,000 cycles; 30/80 A (NO) at 240 Vac 50/60 Hz, 30,000 cycles	FLA/LRA: 22/98 A (NO) at 120 Vac 50/60 Hz, 30,000 cycles; 30/80 A (NO) at 240 Vac 50/60 Hz, 30,000 cycles; 12/30 A (NC) at 240 Vac 50/60 Hz, 30,000 cycles	
	Ballast: 10 A at 277 Vac, 6,000 cycles	Ballast: 10 A at 277 Vac (NO); 3 A at 277 Vac (NC), 6,000 cycles	
	Pilot Duty: 470 VA, 6,000 cycles	Pilot Duty: 470 VA (NO), 275 VA (NC), 6,000 cycles	
Minimum Switching Requirement	100 mA at 12 Vac, 5 Vdc		
Coil Characteristics			
Coil Voltage Range ¹	24–240 Vac 50/60 Hz; 5–24 Vdc1		
Operating Range (% of Nominal)	80%–120% (AC); 75%–120% (DC)		
Average Consumption	2.8 VA (AC); 1 W (DC)		
Drop-out Voltage Threshold	10% (AC/DC)		
General Characteristics			
Electrical Life at Rated Load	100,000 cycles, unless otherwise specified under "Curr	ent Ratinos at Voltage"	
Mechanical Life at No Load (Unpowered)	10,000,000 operations		
Operate Time at Nominal Coil Voltage	15 ms		
Dielectric Strength	Between coil and contact: 2500 Vac; Between contacts: 1500 Vac		
Operating Temperature Range	-40 to +55 °C (-40 to +131 °F)		
Storage Temperature Range	-40 to +85 °C (-40 to +185 °F)		
Vibration Resistance	3 g-n, 10–55 Hz		
Shock Resistance	10 g-n		
Weight (Average)	33 g (1.16 oz)		
Product Certifications	UL (E43641)		

Note: Actual product performance may vary depending on application and environmental conditions. ¹ For available standard coil voltages, refer to the standard part number table on page 26.

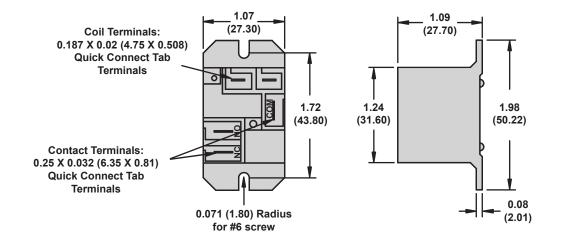


Dimensions, Wiring Diagrams

Magnecraft Power Relays

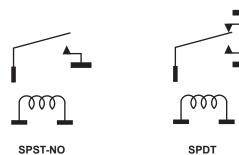
9A SPST-NO, 30 A; SPDT, 30 A (NO) / 15 A (NC)

Dimensions — inches (millimeters)



Wiring Diagrams

All diagrams are shown from top view





9A DIN Rail Adapter, 16-9ADIN-1

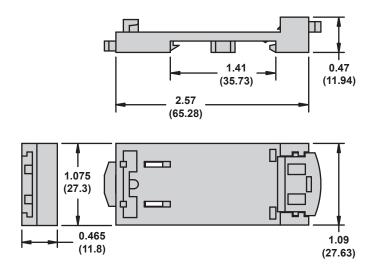


Description

The 16-9ADIN-1 DIN rail adapter provides the mounting flexibility needed to mount the 9 A power relay in a panel board or control box.

Description	Function	For Use with Relays	Packaging Minimum	Standard Part Number
DIN Rail Adapter	Enables the 9A relay to be mounted directly to a DIN rail	9A series relays	10	16-9ADIN-1

Dimensions — inches (millimeters)





Description, Dimensions

Magnecraft Power Relays

Socket Accessories Socket Modules, 70-ASM; Metal DIN Rail, 16-700DIN; DIN Rail Clip, 16-DCLIP; ID Tags/Labels, 16-750/788FT-1



Description

Socket modules connect the circuit in parallel with the relay and coil when plugged into a socket. No additional wiring or tool is required. The modules fit within the maximum dimensions of both the relay and socket.

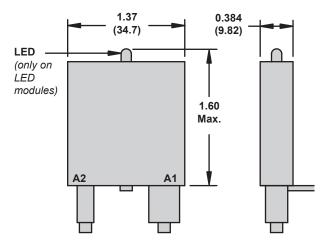
ID Tags/Labels provide quick identification of circuits.

Description	Function	Coil Voltage	Packaging Minimum	Standard Part Number
	LED Indicator: Verifies that power is being supplied to the coil. Ideal for both AC and DC applications. Polarity sensitive for DC applications.	110/240 Vac/Vdc	10	70-ASMLG-110/240
	MOV Suppressor: Protects by shunting potentially damaging	24 Vac/Vdc	10	70-ASMM-24
Socket Module*	electrical spikes away from the relay coil. Ideal for AC and DC Applications.	120 Vac/Vdc	10	70-ASMM-120
		240 Vac/Vdc	10	70-ASMM-240
	Protection Diode: Protects external drive circuitry from inductive voltages generated when removing coil voltage. DC applications only. Polarity sensitive.	6–250 Vdc	10	70-ASMD-250
	RC Circuit: Snubs back EMF of relay coil.	240 Vac	10	70-ASMR-240
ID Tag/Label	Identification of circuits in multi-relay applications	N/A	10	16-750/788FT-1
Metal DIN Rail	Quick installation and removal of sockets	N/A	20	16-700DIN
DIN Rail Clip	Helps to holds sockets firmly in place on the DIN rail	N/A	10	16-DCLIP-1

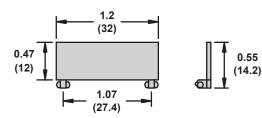
*Use of LED and RC modules may increase coil power draw up to 10%.

Dimensions — inches (millimeters)

70-ASM Socket Modules



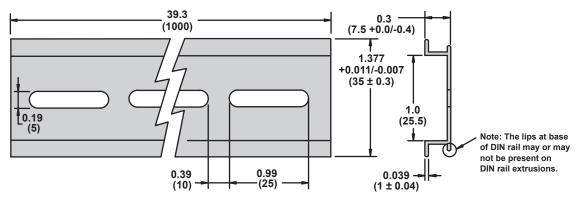
16-750/788FT-1 ID Tag/Label



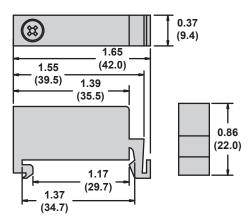
Socket Accessories Socket Modules, 70-ASM; Metal DIN Rail, 16-700DIN; DIN Rail Clip, 16-DCLIP; ID Tags/Labels, 16-750/788FT-1

Dimensions — inches (millimeters)

16-700DIN Metal DIN Rail

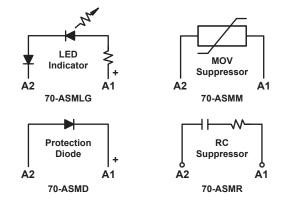


16-DCLIP-1 DIN Rail Clip



Wiring Diagrams

70-ASM Socket Modules





Definition

An electromechanical relay (EMR) is an electrically operated switch which enables current to flow through it on one circuit and can switch a current on and off on a second circuit. Power relays can handle higher power loads, and are typically rated at 20 A and above.

Principle of Operation

A simple electromechanical relay consists of a coil of wire surrounding an iron core, a yoke, a movable armature, and one or more sets of contacts. The armature is hinged to the yoke and mechanically linked to one or more sets of moving contacts. When an electric current is passed through the coil it generates a magnetic field that attracts the armature, and the consequent movement of the movable contact(s) either makes or breaks (depending on the configuration) with a fixed contact. When the current to the coil is switched off, a spring returns the armature to its original position.

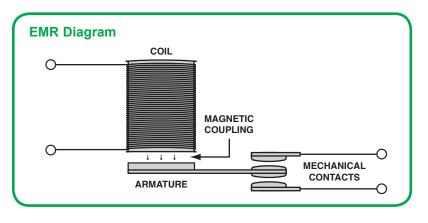
Types of Relay Contacts

- Normally open (NO) contacts connect the circuit when the relay is activated; the circuit is disconnected when the relay is inactive. It is also called a Form A contact or "make" contact.
- Normally closed (NC) contacts disconnect the circuit when the relay is activated; the circuit is connected when the relay is inactive. It is also called a Form B contact or "break" contact.
- Change-over (C/O), or double-throw (DT), contacts control two circuits: one normally open contact and one normally closed contact with a common terminal. It is also called a Form C contact or "transfer" contact ("break before make").

Contact Configurations

- SPST Single Pole Single Throw is used for normally open (SPST-NO) and normally closed contacts (SPST-NC).
- SPDT Single Pole Double Throw is sometimes referred to as single change-over or 1 C/O.
- DPST Double Pole Single Throw has two pairs of terminals making it equivalent to two SPST switches or relays actuated by a single coil. The contacts may be normally open (DPST-NO) or normally closed (DPST-NC).
- DPDT Double Pole Double Throw is sometimes referred to as two change-over or 2 C/O.

The "S" (Single Pole) or "D" (Double Pole) may be replaced with a number, indicating multiple poles. For example 4PDT indicates a four pole double throw relay.



Advantages

Relays are used where it is necessary to control a circuit by a low-power signal (with complete electrical isolation between control and controlled circuits), or where several circuits must be controlled by one signal. The advantages of power relays include:

- Can withstand current surges and voltage spikes
- Higher dielectric strength provides better line to load separation
- Broad contact current range available, from 100 mA to 50 A
- Multiple poles available to control separate voltages and circuits simultaneously
- Various contact configurations also available, including normally open (NO or Form A), normally closed (NC or Form B), double throw (DT or Form C), double make (DM), and double break (DB)
- Wide ambient temperature range
- No leakage current or ON-state voltage drop

Applications

Designed with heavy-duty contacts coupled with a specialized magnetic armature and coil to provide the necessary power and contact force, Magnecraft Power Relays easily handle current loads of 20–50 A. With multiple features as well as panel and DIN mounting options, these relays offer the performance and flexibility needed to improve design, expedite installation, and simplify testing of your application.

Typical Examples of Power Relay Applications



Automation Panels Process controls, motor controls, standby lighting



Food & Beverage

Commercial/industrial cooking equipment, filtration systems, bottling, chillers, convection ovens



Packaging Machinery Conveyor motors, food processors, product/shrink wrap, solenoid controls



Lighting Control

Traffic signal systems, motorway information systems, theatrical lighting, ballast lighting



Power Supplies Universal power supplies, battery backup systems



Material Handling Motor control, conveyor controls



HVAC & Refrigeration

Anti-condensation equipment, compressor controls, blower controls, motorized duct/vent controls



Appliances

Air conditioners, water heaters, portable heaters, spa controls, water pumps



The Magnecraft Range of Power Relays

Depending on the application, the Magnecraft line of power relays offers a number of advantages, including high contact ratings (up to 50 A), feature-rich covers, mounting options and accessories to suit a multitude of applications.

Selecting a Power Relay

The list below is an example of the specifications to look for when selecting a power relay.

Contract rating(s):	
Contact configuration:	
Mounting style:	
Coil voltage	
Features and Accessories	

Use the catalog specifications or online parametric search to determine a recommended part number (www.serelays.com).

The Magnecraft website (www.serelays.com) is designed to enable users to easily find the proper relay to fit design requirements and to help simplify and shorten workflow.

Easily find the proper relay to fit design requirements

Online Catalog

Find the right product by choosing specifications, compare products side-byside, and view technical specifications, 2D and 3D drawings, and associated accessories.

Cross Reference Search

Search our comprehensive database to identify products by manufacturer and part number, and link directly to part specifications.

3D CAD Library

View, email, download, or insert a file directly into your open CAD software pane. Choose from 18 different file formats.

Order Free Samples

Magnecraft offers free samples as a courtesy to individuals and companies evaluating our products for their designs and applications. Sample orders are subject to approval.

Simplify and shorten workflow

Interactive Tools

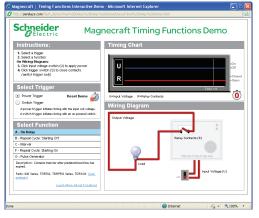
View interactive demonstrations, such as our Time Delay Relay Interactive Demo (left) which visually demonstrates the ten different timing functions offered on Magnecraft time delay relays.

Distributor Inventory Search

Search authorized distributors' current Magnecraft inventory and buy online. (Buy online not available for all distributors).



3D Models



Time Delay Relay Demo



Schneider Electric USA, Inc. 1300 S. Wolf Rd. Des Plaines, IL 60018 Tel: 847-441-2540 www.serelays.com Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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