Catalog 2017





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Designed with specialized magnetic armatures and coils, our general purpose relays easily handle current loads ranging from 10–15 A. With multiple features, and a broad line of sockets and accessories, these relays offer options to improve design, speed up installation, and simplify testing of your application.

Key Features

- Socket, panel, and DIN mounting options
- Multiple features and contact configurations available
- Optional protection, mounting, and identification accessories
- Ideal choice for direct replacement in MRO applications (maintenance, repair, and operations)
- UL Class I Division 2 models for hazardous locations

		Series	Features	Terminals	Contact Configuration	Output Current	Page	
-		792 Control	Plug-In Relay	Blade	DPDT and 4PDT	3–12		
12		- 781R	Plug-In Relay	Blade	SPDT	15 A	9	
-		- 782 Power	Plug-In Relay	Blade	DPDT	15 A	13	
	-	- 783	Plug-In Relay	Blade	3PDT	15 A	17	
-		- 784	Plug-In Relay	Blade	4PDT	15 A	21	
*	-	- 750R	Plug-In Relay	Octal (8 Pin)	DPDT	10 A	25	
		73010	Flug-III Relay	Octal (11 Pin)	3PDT	10 A		
-		- 788R	Plug-In Relay	Blade	DPDT and 3PDT	10 A	29	
	To fill the second	- 782H	Hermetically Sealed Relay			5 A		
				Blade	4PDT	3 A	33	
			Hermetically Sealed Relay	Octal (8 Pin)	DPDT	12 A		
		- 750H		Octal (11 Pin)	3PDT	12 A	37	

781R Series SPDT 15 A









UL Listed when used with corresponding sockets





781R Clear Cover

781R Full-Feature Cover

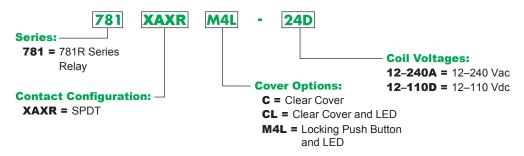
Description

The 781R Series plug-in relays offer clear or full-feature covers with multiple mounting options and accessories.

Feature	Benefit
15 A max. switching current	Ideal choice for automation control panels
14 mm width	Slim design to save valuable space
Clear or full-feature cover options	Full-feature covers include an LED indicator and a locking test button
Socket-mounting option	Simplified installation and maintenance; use of protection modules, hold-down clips, and other accessories
Gold-flashed contacts	Reduced contact oxidation and increased shelf life
Mechanical flag indicator (standard)	Display of the relay status during testing or operation

Contact	Contact	Nominal Voltage	Coil Resistance (Ω)	Standard Part Number			
Rating	Configuration			Clear Cover	Clear Cover with LED	Full-Feature	
		12 Vac, 50/60 Hz	44	781XAXRC-12A	781XAXRCL-12A	781XAXRM4L-12A	
		24 Vac, 50/60 Hz	177	781XAXRC-24A	781XAXRCL-24A	781XAXRM4L-24A	
		48 Vac, 50/60 Hz	708	781XAXRC-48A	781XAXRCL-48A	781XAXRM4L-48A	
		120 Vac, 50/60 Hz	4,430	781XAXRC-120A	781XAXRCL-120A	781XAXRM4L-120A	
15 A	SPDT	240 Vac, 50/60 Hz	17,720	781XAXRC-240A	781XAXRCL-240A	781XAXRM4L-240A	
		12 Vdc	115	781XAXRC-12D	781XAXRCL-12D	781XAXRM4L-12D	
		24 Vdc	450	781XAXRC-24D	781XAXRCL-24D	781XAXRM4L-24D	
		48 Vdc	1,800	781XAXRC-48D	781XAXRCL-48D	781XAXRM4L-48D	
		110 Vdc	9,460	781XAXRC-110D	781XAXRCL-110D	781XAXRM4L-110D	

Part Number Explanation



For more information, contact customer service (1-847-441-2540).

Legacy General Purpose Relays 781R Series

SPDT 15A

Specifications

Part Number		781XAXR		
Contact Characteristics				
Terminal Style		Blade		
Contact Material		Silver Alloy		
Contact Configuration		SPDT		
Carrying Current		15 A		
Maximum Switching Voltage		IEC: 250 Vac / 28 Vdc UL/CSA: 300 Vac / 28 Vdc		
Rated Switching Current at Voltage	at 250 Vac	N.O.: 15 A; N.C.: 7.5		
(Conforming to IEC AC-1 and DC-1)	at 28 Vdc	N.O.: 15 A; N.C.: 7.5		
Rated Switching Current at Voltage (Conforming to UL)	Resistive	15 A at 277 Vac, 50/60 Hz k cycles 15 A at 28 Vdc, 1 k cycles		
	Motor	1/2 hp at 120 Vac, 1 k cycles 1 hp at 277 Vac, 1 k cycles		
	Pilot Duty	B300		
Rated Switching Current at Voltage (Conforming to CSA)	Resistive	15 A at 150 Vac, 50/60 Hz, 100 k cycles 10 A at 277 Vdc, 100 k cycles 15 A at 28 Vdc, 100 k cycles		
	Motor	1/2 hp at 120 Vac, 1 k cycles 1 hp at 277 Vac, 1 k cycles		
	Pilot Duty	B300		
Minimum Switching Requirement		10 mA at 17 Vdc		
Coil Characteristics				
Maximum Operating Voltage		110% (AC/DC)		
Maximum Pickup Voltage		85% (AC/DC)		
Drop-out Voltage Threshold		15% (AC); 10% (DC)		
Average Consumption		Standard: 1.6 VA (AC); 1.1 W (DC) With LED: 1.9 VA (AC); 1.4 W (DC)		
General Characteristics				
Electrical Life at Rated Load		100,000 operations		
Mechanical Life (Unpowered)		10,000,000 operations		
Operating Time (Response Time)		20 ms		
Dielectric Strength	Between Coil and Contact (AC)	2000 V (rms)		
	Between Poles (AC)	2000 V (rms)		
	Between Contacts (AC)	1500 V (rms)		
Ambient Air Temperature	Storage	-40 to +85 °C (-40 to +185 °F)		
Around the Device	Operation	-40 to +55 °C (-40 to +131 °F)		
Vibration Resistance—In Operation		±1 mm (10–35 Hz) and 3 gn (35–150 Hz)		
Shock Resistance		15 gn		
Degree of Protection (Housing Only)		IP40		
Weight		29 g (1.02 oz)		
Agency Approvals		UL with socket, UR (E164862), CE, CSA (LR44087), RoHS		

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



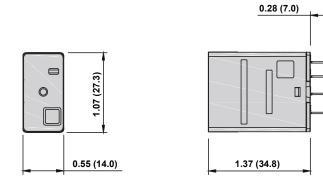
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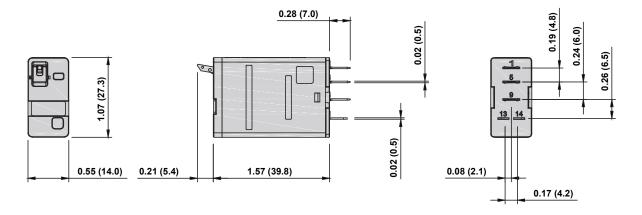
781R Series SPDT 15 A

Dimensions, in. (mm)

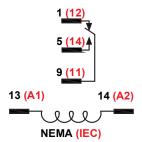
Clear Cover Dimensions



Full-Feature Cover Dimensions



Wiring Diagram



Legacy General Purpose Relays 781R Series Accessories



Description

Optional sockets offer customizable solutions including protection modules, holddown clips, and ID tags. Sockets are finger-safe according to IP20, and compatible with DIN rail or panel mounting.

Relay Accessories





Description	Function	For Use with Relays	Pkg. Min.	Standard Part Number		
Socket 1	DIN or panel mounting with screw terminals and clamping plates		10	70-781D5R-1A		
Socket 2	PCB mounting	781XAXR	10	70-781T-1		
Adapter 3	Direct DIN rail mounting	IOIAAK	10	16-781C		
Adapter 4	Direct panel mounting		10	16-781C1		

Socket Accessories



Description	Function	For Use with Sockets	Coil Voltage	Pkg. Min.	Standard Part Number		
Metal Spring Clip 1	Securing the relay in the socket	70-781D5R-1A, 70-781T-1	_	10	16-781SC		
Plastic ID Hold-Down Clip 2	Securing the relay in the socket and providing labeling	70 704050 44	_	10	16-781IDC		
Extruded Aluminum DIN Rail, 1 m (39.37 in.) 3	Quick installation and removal of sockets	70-781D5R-1A	_	10	16-700DIN		
DIN Rail End Clip 3	Holding the sockets firmly in place on a DIN rail	_	_	10	16-DCLIP-1		
Small Socket Modules	small Socket Modules						
Protection Diode	Protecting the external drive circuitry from inductive voltages	70-781D5R-1A	6–250 Vdc	10	70-BSMD-250		
LED Indicator 4	Providing coil status at a glance		24 Vac/Vdc	10	70-BSMLG-24		
	Protection from damaging electrical spikes		120 Vac/Vdc	10	70-BSMM-120		
MOV Suppressor			24 Vac/Vdc	10	70-BSMM-24		
			240 Vac/Vdc	10	70-BSMM-240		

Note: Using an LED socket module can increase the coil power draw by up to 10%.

