

## Relay Master/Expandable Interface Module Specifications

Relay Master/Expandable XIM Catalog Number	Relay Coil Voltage Range	Max. Current (Per Circuit/Per Relay Pair)	Max. Current (Per Module)	Dimensions (W x H x D) (in.)	Indicator Circuit Current (Nominal)	Label Card Replacement Part Catalog Number
1492-XIM4024-16R, -RXIM4024-16R	20...26V DC	10/12 A	96 A	9.06 x 3.27 x 2.78	2 mA	46006-222-01
1492-XIM4024-8R	20...26V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM2024-8R	20...26V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM20120-8R	96...132V AC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-216-01
1492-XIM24-8R, -RXIM24-8R	20...26V DC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-217-01
1492-XIM120-8R	96...132V AC	10/12 A	48 A	6.30 x 3.27 x 2.78	2 mA	46006-217-01
1492-XIM2024-16R	20...26V DC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM2024-16RF	20...26V DC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM20120-16R	96...132V AC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM20120-16RF	96...132V AC	10/12 A	96 A	10.65 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIM4024-16RF	20...26V DC	10/12 A	96 A	11.05 x 3.27 x 2.78	2 mA	46006-223-01
1492-XIMF-2	0...132V AC/DC	2/NA A	4 A	3.15 x 3.27 x 2.19	—	46006-218-01
1492-XIMF-F24-2	10...30V DC	2/NA A	4 A	3.15 x 3.27 x 2.28	2 mA	46006-218-01
1492-XIMF-F120-2	85...132V AC	2/NA A	4 A	3.15 x 3.27 x 2.28	2 mA	46006-218-01
1492-XIM24-16RF	20...26V DC	10/12 A	96 A	11.05 x 3.27 x 2.78	2 mA	46006-219-01

① Dimensions are in inches. To convert to millimeters, multiply inches by 25.4.

② Ships with each module. For spare part, precede part number with the letter "W."

## General Wiring System Specifications

Parameter	Specifications
Agency Certifications: Modules and Cables	cULus: Hazardous Locations; Class I Div 2 (all modules, except those with relays); Groups A, B, C, and D. Temperature Code T3C @ 60°C. UL File E10314, Guide No. NRAG
Agency Certification Modules	cULus: Ordinary Locations; Module with relays, UL File E113724, Guide No. NRAQ
Agency Certification Modules	Factory Mutual (FM): Hazardous Locations; Class I Div 2 (all except modules with relays); Groups A, B, C, and D. Temperature Rating: T3C @ 60°C. FM file J.I.3000590
CE Certifications	Compliant for all applicable directives
Maximum Peak Transient Voltage	600V ①
Terminal Block Wire Range (Rated Cross Section)	Fixed Screw Style: #12...#22 AWG (4.0...0.2 mm <sup>2</sup> ) Removable Screw Style: #12 to #22 AWG 2.5...0.5 mm <sup>2</sup> ) Removable Push-in Style: #12 to #26 AWG (2.5...0.2mm <sup>2</sup> )
Wire Strip Length	Fixed Screw Style: .32 in. (8.0 mm) Removable Screw Style: .28 in. (7.0 mm) Removable Push-in Style: .39 in. (10.0 mm)
Recommended Terminal Block Screw Torque	Fixed Screw Style: 3.5...4.5 lb-in. (0.38...0.50 Nm) Removable Screw Style: 3.5...4.5 lb-in. (0.38...0.50 Nm) Removable Push-in Style: NA (See Figure 1)
Operating Temperature Range	0...+60°C
Operating Humidity	5% to 95% non-condensing
Storage Temperature Cables	-20...+80°C
Storage Temperature Modules	-40...+85°C
Pollution Degree	2 ②

① For transients > 600V use a UL Recognized suppression device rated at 2.5 kV withstand.

② Pollution Degree 2 is an environment where normally only non-conduction pollution occurs, except for occasional temporary conductivity caused by condensation shall be expected.

## Maximum Switching Capacity

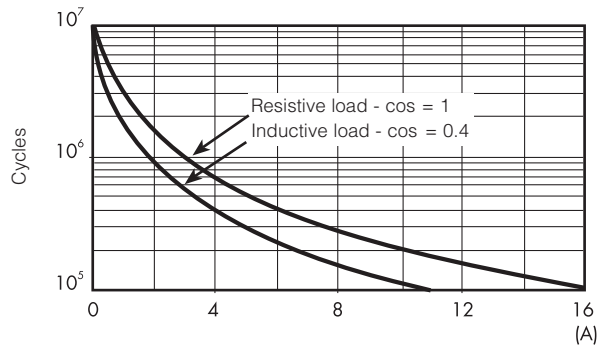
### Relay Contact Rating

Electrical Ratings: Cat. No. 700-HK36 ②			
<b>Rated Thermal Current (<math>I_{th}</math>)</b>		1-pole, 1 CO, SPDT - 16 A ①	
<b>Rated Thermal Current (<math>I</math>)</b>		250V IEC, 300V UL/CSA ①	
<b>Electrical Ratings of Contacts</b>	<b>Inductive VAC</b>	120VAC	AC-15, 6.2 A B300 Pilot duty, 3 A 1/3 Hp (0.24 kW) 1-phase
		240VAC	AC-15, 3.1 A B300 Pilot duty, 1.5A 3/4 Hp (0.55 kW) 1-phase
		230VAC	0.55 kW 1-phase
	<b>Inductive VDC</b>	24VDC	DC-13, 5.0 A
		125VDC	DC-13, 0.2 A R300 Pilot Duty, 0.22 A
		250VDC	DC-13, 0.1 A R300 Pilot duty, 0.11 A
	<b>Resistive</b>	23VAC	AC-1, 16 A ①
		277VAC	16A General use ①
	<b>Make, Break, and Continuous</b>	30VDC	DC-1, 12 A 10 A, Resistive
	<b>Minimum Permissible Contact Rating</b>		300 mW (5V/60 mA or 60V/5 mA) for silver contacts

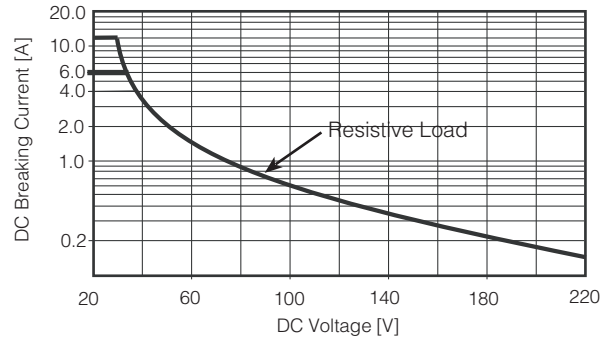
- ① Maximum module current:
  - 10 Amp per relay output
  - 12 Amps per 2 adjacent relay outputs
- ② Replacement relays:
  - 24V DC control (coil) voltage (Cat. No. 700-HK36Z24)
  - 120V AC control (coil) voltage (Cat. No. 700-HK36A1)

Bul. 700-HK36 SPDT

Electrical Life (AC Loads) vs. Contact Life



Bul. 700-HK36 Maximum DC1 Breaking Capacity  
Electrical Life (DC Loads) vs. Contact Life



- When switching a resistive load (DC1) having voltage and current values under the curve, an electrical life of  $\geq 100 \times 10^3$  can be expected.
- In case of inductive loads (DC13), the connection of a diode in parallel with the load will permit a similar electrical life as for a DC1 load.  
**Note:** The release time for the load will be increased.