

## Relay Master/Expandable Interface Module Specifications ❶

| 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.) ❶ | Indicator Circuit Current (Nominal) | Label Card Replacement Part Catalog Number ❷ |
|--------------------------------------------|--------------------------|-------------------------------------------|---------------------------|--------------------------------|-------------------------------------|----------------------------------------------|
| 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                                 |

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

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

## General Wiring System Specifications

| Parameter                                       | Specifications                                                                                                                                                                                            |
|-------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Agency Certifications:<br>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.<br>UL File E10314, Guide No. NRAQ                                  |
| Agency Certification Modules                    | cULus: Ordinary Locations; Module with relays, UL File E113724, Guide No. NRAQ                                                                                                                            |
| CE Certifications                               | 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                                      |
| Maximum Peak Transient Voltage                  | 600V ❶                                                                                                                                                                                                    |
| Terminal Block Wire Range (Rated Cross Section) | Fixed Screw Style: #12...#22 AWG (4.0...0.2 mm <sup>2</sup> )<br>Removable Screw Style: #12 to #22 AWG 2.5...0.5 mm <sup>2</sup> )<br>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)<br>Removable Screw Style: 28 in. (7.0 mm)<br>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)<br>Removable Screw Style: 3.5...4.5 lb-in. (0.38...0.50 Nm)<br>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 ❷                                                                                                                                                                                                       |

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

❷ 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 |                             |                                                   |                                                                   |
|----------------------------------------------|-----------------------------|---------------------------------------------------|-------------------------------------------------------------------|
| Rated Thermal Current ( $I_{th}$ )           |                             | 1-pole, 1 CO, SPDT - 16 A ❶                       |                                                                   |
| Rated Thermal Current ( $U_I$ )              |                             | 250V IEC, 300V UL/CSA ❶                           |                                                                   |
| Electrical Ratings of Contacts               | Inductive VAC               | 120VAC                                            | AC-15, 6.2 A<br>B300 Pilot duty, 3 A<br>1/3 Hp (0.24 kW) 1-phase  |
|                                              |                             | 240VAC                                            | AC-15, 3.1 A<br>B300 Pilot duty, 1.5A<br>3/4 Hp (0.55 kW) 1-phase |
|                                              |                             | 230VAC                                            | 0.55 kW 1-phase                                                   |
|                                              | Inductive VDC               | 24VDC                                             | DC-13, 5.0 A                                                      |
|                                              |                             | 125VDC                                            | DC-13, 0.2 A<br>R300 Pilot Duty, 0.22 A                           |
|                                              |                             | 250VDC                                            | DC-13, 0.1 A<br>R300 Pilot duty, 0.11 A                           |
|                                              | Resistive                   | 23VAC                                             | AC-1, 16 A ❶                                                      |
|                                              |                             | 277VAC                                            | 16A General use ❶                                                 |
|                                              | Make, Break, and Continuous | 30VDC                                             | DC-1, 12 A<br>10 A, Resistive                                     |
| Minimum Permissible Contact Rating           |                             | 300 mW (5V/60 mA or 60V/5 mA) for silver contacts |                                                                   |

❶ 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)