

Specifications

Controller Specifications

General Specifications

Attribute	1762-L24AWA 1762-L24AWAR	1762-L24BWA 1762-L24BWAR	1762-L24BXB 1762-L24BXHR	1762-L40AWA 1762-L40AWAR	1762-L40BWA 1762-L40BWAR	1762-L40BXB 1762-L40BXHR
Dimensions	Height: 90 mm (3.54 in.), 104 mm (4.09 in.) (with DIN latch open) Width: 110 mm (4.33 in.) Depth: 87 mm (3.42 in.)			Height: 90 mm (3.54 in.), 104 mm (4.09 in.) (with DIN latch open) Width: 160 mm (6.30 in.) Depth: 87 mm (3.42 in.)		
Shipping weight	0.9 kg (2.0 lbs)			1.1 kg (2.4 lbs)		
Number of I/O	14 inputs, 10 outputs			24 inputs, 16 outputs		
Power supply voltage	100...240V AC (-15%, +10%) @ 47...63 Hz		24V DC (-15%, +10%) Class 2, SELV	100...240V AC (-15%, +10%) @ 47...63 Hz		24V DC (-15%, +10%) Class 2, SELV
Heat dissipation	15.2 W	15.7 W	17.0 W	21.0 W	22.0 W	27.9 W
Power supply inrush current	120V AC: 25 A for 8 ms 240V AC: 40 A for 4 ms		24V DC: 15 A for 20 ms	120V AC: 25 A for 8 ms 240V AC: 40 A for 4 ms		24V DC: 15 A for 30 ms
Power supply usage	68VA	70VA	27 W	80VA	82VA	40 W
Power supply output	5V DC	400 mA	400 mA ⁽¹⁾	400 mA	600 mA ⁽²⁾	600 mA
	24V DC	350 mA	350 mA ⁽¹⁾	350 mA	500 mA ⁽²⁾	500 mA
Sensor power output	none	250 mA @ 24V DC AC Ripple < 500 mV peak-to-peak 400 µF max. ⁽¹⁾	none	none	400 mA @ 24V DC AC Ripple < 500 mV peak- to-peak 400 µF max. ⁽²⁾	none
Input circuit type	120V AC	24V DC sinking/sourcing	24V DC sinking/sourcing	120V AC	24V DC sinking/sourcing	24V DC sinking/sourcing
Output circuit type	Relay	Relay	Relay/FET	Relay	Relay	Relay/FET
Terminal screw torque	0.791 N•m (7 lb•in) rated					

(1) Do not allow the total load power consumed by the 5V DC, 24V DC, and sensor power outputs to exceed 12 W.

(2) Do not allow the total load power consumed by the 5V DC, 24V DC, and sensor power outputs to exceed 16 W.

See [System Loading and Heat Dissipation on page 105](#) for system validation worksheets.

Input Specifications

Attribute	1762-L24AWA 1762-L40AWA 1762-L24AWAR 1762-L40AWAR	1762-L24BWA, 1762-L24BXB, 1762-L40BWA, 1762-L40BXB 1762-L24BWAR, 1762-L24BXHR, 1762-L40BWAR, 1762-L40BXHR	
		Inputs 0...3	Inputs 4 and Higher
On-state voltage range	79...132V AC	14...24V DC (+10% @ 55 °C/131 °F) (+25% @ 30 °C/86 °F)	10...24V DC (+10% @ 55 °C/131 °F) (+25% @ 30 °C/86 °F)
Off-state voltage range	0...20V AC	0...5V DC	
Operating frequency	47...63 Hz	0 Hz...20 kHz	0 Hz...1 kHz (scan time dependent)
On-state current:			
Minimum	5.0 mA @ 79V AC	2.5 mA @ 14V DC	2.0 mA @ 10V Dc
Nominal	12 mA @ 120V AC	7.3 mA @ 24V DC	8.9 mA @ 24V Dc
Maximum	16.0 mA @ 132V AC	12.0 mA @ 30V DC	12.0 mA @ 30V DC
Off-state leakage current	2.5 mA max.	1.5 mA min.	
Nominal impedance	12 kΩ @ 50 Hz 10 kΩ @ 60 Hz	3.3 kΩ	2.7 kΩ
Inrush current @ 120V AC, max	250 mA	Not applicable	