Standards and Certifications

Table 50-9. Approvals/Certifications

Description	Specification
Electrical/EMC	
ESD Immunity	8 kV air discharge
EFT Immunity	Power Line: 2 kV; Digital I/O: 1 kV; Analog & Communication I/O: 250V
Damped-Oscillatory Wave	Power Line: 1 kV; Digital I/O: 1 kV
RS Immunity	26 MHz – 1 GHz, 10 V/m
Other Approvals	
Agency Certifications	UL 508, cUL, CE

Technical Data and Specifications

Table 50-10. Environmental Ratings

Description	Specification
Transportation & Storage	
Temperature	-13° – 158°F (-25° – 70°C)
Humidity	5 – 95%
Operating	
Temperature	32° – 131°F (0° – 55°C)
Humidity	50 – 95%
Power Supply Voltage	ELC: 24V DC (-15% – 20%) (With DC input reverse polarity protection), Expansion Unit: supplied by the ELC
Power Consumption	3 – 6W
Insulation Resistance	> 5 MΩ at 500V DC (Between all inputs/outputs and earth)
Grounding	The diameter of grounding wire cannot be smaller than the wire diameter of terminals L and N (All ELC units should be grounded directly to the ground pole).
Vibration / Shock Resistance	Standard: IEC1131-2, IEC 68-2-6 (TEST Fc) / IEC1131-2 & IEC 68-2-27 (TEST Ea)
Weight (approx.)	0.348 Lbs (0.158 kg)

Table 50-11. DC Input Point Electrical Specifications

Description	Specification
Input Type	DC (SINK or SOURCE)
Input Current	24V DC 5 mA
Active Level	OFF ➔ ON, above 16V DC
	ON ➔ OFF, below 14.4V DC
Response Time	About 10 mS (An adjustment range of 0 – 10,000 mS could be selected through D1020 and D1021)

Table 50-12. Output Point Electrical Specifications

Output Type	Relay – R	Transistor – T	
Current Specification	1.5A/1 point (5A/COM)	0.3A/1 point @ 40°C; When the output of Y0 and Y1 is high-speed pulse, Y0 and Y1 = 30 mA	
Voltage Specification	Below 250V AC, 30V DC	30V DC	
Maximum Loading	75 VA (Inductive)	9W/1 point	When the output of Y0 and Y1 is high-speed pulse, Y0 and Y1 = 0.9W (Y0 = 32 kHz, Y1 = 10kHz), Y0 can be 50 kHz using D registers.
	90W (Resistive)		
Response Time	Adjustable 0 – 15 ms, default is 10 ms	OFF ➔ ON 20 µs ON ➔ OFF 30 µs	Y0 and Y1 are specified points for high-speed pulse

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