

Technical Information

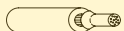

Environmental Ratings		Overload Rating		Accessory Rating	
Ambient Temperature	Storage	[°C]	-40...+85 (-40...+185 °F)		
	Operating (open)	[°C]	-20...+65 (-4...+149 °F)		
	Operating (enclosed)		-20...+50 °C (-4...+122 °F)	-20...+55 °C (-4...+131 °F)	
Humidity	Operating	[%]	5...95% Non-condensing; 92% R.H.		
	Damp Heat - Steady State (per IEC 60068-2-78)		93% R.H., 40 °C (104 °F), 56 days		
	Damp Heat - Cyclic (per IEC 60068-2-30)		93% R.H., 25 °C/40 °C (77 °F/104 °F), 21 Cycles		
Cooling Method			Natural convection		
Vibration (per IEC 68-2-6), operating		[G]	3		
Shock (per IEC 68-2-27), operating		[G]	30		
Maximum Altitude		[m]	2000		
Pollution Environment			Pollution Degree 3		
Degree of Protection			IP20 (front of panel)	IP20	

Electromagnetic Compatibility

Immunity and Emissions		Overload Rating		Accessory Rating	
Electrostatic Discharge Immunity					
IEC 61000-4-2, IEC 60533		6 kV Contact Discharge, 8kV Air Discharge (Performance Criterion "B")		8 kV Contact Discharge, 8kV Air Discharge (Performance Criterion "B")	
Radio Frequency Immunity					
		[Hz]	10V/m; 80 MHz...1.0 GHz		
IEC 61000-4-3			[Hz]	3V/m; 1.4 GHz...2.0 GHz	
			[Hz]	1V/m; 2.0 GHz...2.7 GHz	
IEC 60533			[Hz]	10V/m; 80 MHz...2.0 GHz (Performance Criterion "A")	
Electrical Fast Transient / Burst Immunity					
IEC 61000-4-4, IEC 60533		[V]	4kV (3-phase Power); 2kV (Control Power & Communication I/O when CEP7-1ERR or CEP7-1EGJ accessory installed); Performance Criterion "A"		
Surge Immunity					
IEC 61000-4-4, IEC 60533		[V]	2kV (L-N); 1kV (L-L); Performance Criterion "B"		
Radiated Emissions					
CISPR11 Environment A		[Hz]	30 MHz...1.0 GHz		
IEC 60533		[Hz]	150KHz...2.0GHz		
Conducted Emissions					
CISPR11 Environment A		[Hz]	150 KHz...30 MHz		
IEC 60533		[Hz]	10 KHz...30 MHz (General Power Distribution Only)		
Conducted Immunity					
IEC 61000-4-6, IEC 60533		[Hz]	Modulation 80% AM at 1 KHz; 10V RMS (150 KHz...80 MHz)		
Power Frequency Magnetic Field Immunity					
IEC 60947-1, IEC 61000-4-8		[Hz]	30 A/m; 50 Hz		
Voltage Variation Immunity					
IEC 61000-4-11, IEC 60533		[V]	—		Control Power 40...240V (AC/DC)

Wiring Specifications

Wiring Specifications for CEP7-1E_B, CEP7-1E_D, and CEP7-1E_E

Wire Type		Control Wiring		Power Wiring					
		All		CEP7-1E B		CEP7-1E D		CEP7-1E E	
Wires	Range	Torque	Range	Torque	Range	Torque	Range	Torque	
 Flexible Stranded w/ Ferrule	1 Wire	0.75...2.5 mm ²	1.4 N•m	2.5...16 mm ²	2.5 N•m	2.5...16 mm ²	2.5 N•m	4...35 mm ²	4.6 N•m
	2 Wires ①			2.5...10 mm ²	3.4 N•m	2.5...10 mm ²	3.6 N•m	4...25 mm ²	
 Stranded / Solid	1 Wire	0.75...4.0 mm ² (18...12 AWG)	1.4 N•m (12 lb•in)	2.5...16 mm ² (14...6 AWG)	2.5 N•m (22 lb•in)	2.5...16 mm ² (14...6 AWG)	2.5 N•m (22 lb•in)	4...35 mm ² (12...1 AWG)	4.6 N•m (40 lb•in)
	2 Wires ①			2.5...16 mm ² (14...6 AWG)	3.4 N•m (30 lb•in)	2.5...16 mm ² (14...6 AWG)	3.6 N•m (32 lb•in)	4...35 mm ² (12...2 AWG)	