

#### Technical Information

**B**  
3rd Gen CEP7 Overloads

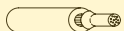

Environmental Ratings		Overload Rating	Accessory Rating
Ambient Temperature	Storage [°C]	-40...+85 (-40...+185 °F)	
	Operating (open) [°C]	-20...+65 (-4...+149 °F)	
	Operating (enclosed)	-20...+50 °C (-4...+122 °F)	-20...+55 °C (-4...+131 °F)
Humidity	Operating [%]	5...95% Non-condensing; 92% R.H.	
	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
<b>Electrostatic Discharge Immunity</b>			
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")
<b>Radio Frequency Immunity</b>			
IEC 61000-4-3	[Hz]	10V/m; 80 MHz...1.0 GHz	
	[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")	
<b>Electrical Fast Transient / Burst Immunity</b>			
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"
<b>Surge Immunity</b>			
IEC 61000-4-4, IEC 60533		[V]	2kV (L-N); 1kV (L-L); Performance Criterion "B"
<b>Radiated Emissions</b>			
CISPR11 Environment A		[Hz]	30 MHz...1.0 GHz
IEC 60533		[Hz]	150KHz...2.0GHz
<b>Conducted Emissions</b>			
CISPR11 Environment A		[Hz]	150 KHz...30 MHz
IEC 60533		[Hz]	10 KHz...30 MHz (General Power Distribution Only)
<b>Conducted Immunity</b>			
IEC 61000-4-6, IEC 60533		[Hz]	Modulation 80% AM at 1 KHz; 10V RMS (150 KHz...80 MHz)
<b>Power Frequency Magnetic Field Immunity</b>			
IEC 60947-1, IEC 61000-4-8		[Hz]	30 A/m; 50 Hz
<b>Voltage Variation Immunity</b>			
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 <sup>2</sup>	1.4 N•m	2.5...16 mm <sup>2</sup>	2.5 N•m	2.5...16 mm <sup>2</sup>	2.5 N•m	4...35 mm <sup>2</sup>	4.6 N•m
	2 Wires ①			2.5...10 mm <sup>2</sup>	3.4 N•m	2.5...10 mm <sup>2</sup>	3.6 N•m	4...25 mm <sup>2</sup>	
 Stranded / Solid	1 Wire	0.75...4.0 mm <sup>2</sup> (18...12 AWG)	1.4 N•m (12 lb•in)	2.5...16 mm <sup>2</sup> (14...6 AWG)	2.5 N•m (22 lb•in)	2.5...16 mm <sup>2</sup> (14...6 AWG)	2.5 N•m (22 lb•in)	4...35 mm <sup>2</sup> (12...1 AWG)	4.6 N•m (40 lb•in)
	2 Wires ①			2.5...16 mm <sup>2</sup> (14...6 AWG)	3.4 N•m (30 lb•in)	2.5...16 mm <sup>2</sup> (14...6 AWG)	3.6 N•m (32 lb•in)	4...35 mm <sup>2</sup> (12...2 AWG)	