




**Directly Mounted CEP7 Solid State Overload Relays, Manual Reset ①②④**

Overload Relay	Directly Mounts to Contactor... ②	Adjustment Range (A)	Trip Class 10	
			Catalog Number	Price
<b>Manual Reset for 30 Applications ①</b>				
	CA7-9...CA7-23 CAN7-12, CAN7-16	0.1...0.5	CEP7-ED1AB	77
		0.2...1.0	CEP7-ED1BB	77
		1.0...5.0	CEP7-ED1CB	77
		3.2...16	CEP7-ED1DB	77
		5.4...27	CEP7-ED1EB	77
	CA7-30...CA7-43 CAN7-37, CAN7-43	1.0...5.0	CEP7-ED1CD	123
		3.2...16	CEP7-ED1DD	123
		5.4...27	CEP7-ED1ED	123
		9...45	CEP7-ED1FD	123

**Directly Mounted CEP7 Solid State Overload Relays, Automatic/Manual Reset ①②③④**

Overload Relay	Directly Mounts to Contactor... ②	Adjustment Range (A)	Adjustable Trip Class 10, 15, 20 & 30	
			Catalog Number	Price
<b>Automatic or Manual Reset for 30 Applications ①</b>				
	CA7-9...CA7-23 CAN7-12, CAN7-16	0.1...0.5	CEP7-EEAB	88
		0.2...1.0	CEP7-EEBB	88
		1.0...5.0	CEP7-EECB	88
		3.2...16	CEP7-EEDB	88
		5.4...27	CEP7-EEEB	88
	CA7-30...CA7-43 CAN7-37, CAN7-43	1.0...5.0	CEP7-EECD	138
		3.2...16	CEP7-EEDD	138
		5.4...27	CEP7-EEED	138
		9...45	CEP7-EEFD	138
	CA7-60...CA7-97 CAN7-85	5.4...27	CEP7-EEEE	158
		9...45	CEP7-EEFE	158
		18...90	CEP7-EEGE	164
		60...120	CEP7-EEVE	164
<b>Automatic or Manual Reset for 10 Applications ①</b>				
	CA7-9...CA7-23 CAN7-12, CAN7-16	1.0...5.0	CEP7S-EEPB	88
		3.2...16	CEP7S-EERB	88
		5.2...27	CEP7S-EESB	88
	CA7-30...CA7-43 CAN7-37, CAN7-43	9...45	CEP7S-EETD	138
	CA7-60...CA7-85 CAN7-85	18...90	CEP7S-EEUE	164

**TIP!**

Most industrial applications usually call for an overload relay that must be manually reset in the event of a trip. This allows the cause of the overload to be identified before the motor is restarted. An overload relay that resets automatically is generally for specialized, or remote applications, such as rooftop AC units where restarting the motor will not harm people or equipment.


① 3-phase CEP7 units are only designed for 30 applications. Single phase CEP7S units are only designed for single phase applications.

② This reference is not intended to be a guide for selecting contactors. Size overload relays using the full load current of the motor.

③ The reset time of a CEP7 set in the automatic mode is approximately 120 seconds.

④ CEP7 overload relays do not work with Variable Frequency Drives, DC Applications or Softstarters with braking options.

#### Pass-Thru CEP7 Solid State Overload Relays ⑤

Overload Relay	Separate Mount for use with... ②	Adjustment Range (A)	Trip Class 10	
			Catalog Number	Price
<b>Manual Reset for 3Ø Applications ①④</b>				
 Fig. 1	CA8-09...12 CA7-9...CA7-23 CAN7-12...CAN7-37	1.0...5.0	CEP7-ED1CP	77
		3.2... 16	CEP7-ED1DP	
		5.4...27	CEP7-ED1EP	

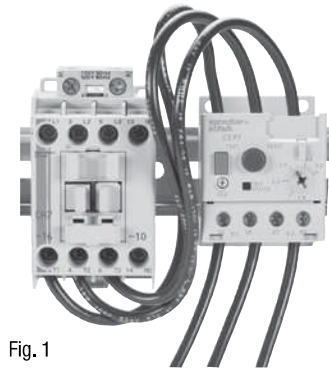




Fig. 1

Overload Relay	Separate Mount for use with... ②	Adjustment Range (A)	Adjustable Trip Class 10, 15, 20 & 30	
			Catalog Number	Price
<b>Automatic or Manual Reset for 3Ø Applications ①③④</b>				
 Fig. 1	CA8-09...12 CA7-9...CA7-23 CAN7-12...CAN7-37	1.0...5.0	CEP7-EECP	88
		3.2... 16	CEP7-EEDP	
		5.4...27	CEP7-EEEP	
<b>Automatic or Manual Reset for 1Ø Applications ①③④</b>				
 Fig. 1	CA8-09...12 CA7-9...CA7-23 CAN7-12...CAN7-37	1.0...5.0	CEP7S-EEPP	88
		3.2...16	CEP7S-EERP	
		5.2...27	CEP7S-EESP	



Pass-thru window

Fig. 2

#### Description

Fig. 1 - The Pass-Thru version of the CEP7 permits separate mounting of the overload relay.


Fig. 2 - Motor load side cables simply pass-thru a window in the overload relay body. The internal current transformers monitor the current flow.

#### Benefits

- No need for a panel mount adapter as required with direct-connect versions
- Eliminates 3 to 6 wire terminations
- Designed for use with CA8 or CA7 Contactors
- Easily replaces outdated overload relays in existing starter assemblies
- Provides state-of-the-art accuracy and motor protection

- ① 3-phase CEP7 units are only designed for 3Ø applications. Single phase CEP7S units are only designed for single phase applications.
- ② This reference is not intended to be a guide for selecting contactors. Size overload relays using the full load current of the motor.
- ③ The reset time of a CEP7 set in the automatic mode is approximately 180 seconds.
- ④ CEP7 overload relays do not work with Variable Frequency Drives, DC Applications or Softstarters with braking options.
- ⑤ Pass-Thru windows will accept one power wire up to #10 AWG wire (6mm<sup>2</sup>).

#### Large Amp CEP7 Solid State Overload Relays, Automatic and Manual Reset ①②③④⑥

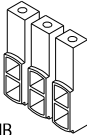
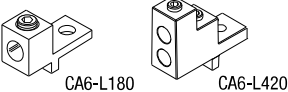
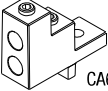
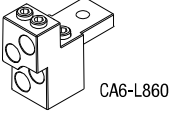

Overload Relay	Directly Mounts to Contactor... ②	CT Ratio	Adjustment Range (A)	Selectable Trip Class (10,15,20 & 30)	
				Catalog Number	Price
<b>Automatic or Manual Reset for 3Ø Applications ①③</b>					
 <p>CEP7-EEHF</p>	CA6-115...CA6-180	150:5	30...150	CEP7-EEHF	508
	CA6-115-EI...CA6-180-EI CA6-180(EI)	200:5	40...200	CEP7-EEJF	508
	CA6-210-EI...CA6-420-EI CA6-300-EI	200:5	40...200	CEP7-EEJG	888
		300:5	60...300	CEP7-EEKG	888
	CA6-630-EI...CA6-860-EI	500:5	100...500	CEP7-EELG	888
		600:5	120...600	CEP7-EEMH	1397
	800:5	160...800	CEP7-EENH	1397	

**B**

Motor Protection

CEP7

#### Load Side Lugs & Accessories

Lug or Accessory	Description	For Use With...	Catalog Number	Price
 <p>CA6-HB</p>	<b>Main Terminal Set, ⑥</b> <b>Dual Conductor, Touch Safe</b> <ul style="list-style-type: none"> <li>Accommodation for dual connections to each pole</li> <li>Accepts flat or round conductors</li> <li>Touch safe to IP20 according to IEC 60529</li> <li>Eliminates need for Terminal Shields (price as complete set, containing 2 blocks, 6 lugs)</li> </ul>	CEP7-EEHF CEP7-EEJF	CA6-HB2	See page A99
		CEP7-EEJG CEP7-EEKG CEP7-EELG	CA6-HB3	
 <p>CA6-L180 CA6-L420</p>	<b>Screw Type Lugs -</b> <ul style="list-style-type: none"> <li>Accepts round conductors only</li> <li>Copper construction (set of 3 lugs)</li> </ul>	CEP7-EEHF CEP7-EEJF	CA6-L180	
		CEP7-EEJG CEP7-EEKG CEP7-EELG	CA6-L420	
 <p>CA6-L630</p>	<b>Screw Type Lugs -</b> <ul style="list-style-type: none"> <li>Accommodation for dual connections to each pole</li> <li>Copper construction accepts round conductors only (set of 3 lugs)</li> </ul>	CEP7-EEMH CEP7-EENH	CA6-L630	
 <p>CA6-L860</p>		CEP7-EEMH CEP7-EENH	CA6-L860	
	<b>Main Terminal Cover - ⑥</b> <ul style="list-style-type: none"> <li>CA6 touch protection</li> <li>Line or load (price each)</li> <li>IP20; IEC60529 &amp; DIN 40 050 protection</li> </ul>	CA6-115(-EI) to 180(-EI) CA6-210-EI to 420-EI CA6-630-EI to 860-EI	CA6-TC180 CA6-TC420 CA6-TC860	See page A101

① 3-phase CEP7 units are only designed for 3Ø applications.

② This reference is not intended to be a guide for selecting contactors. Size overload relays using the full load current of the motor.






③ The reset time of a CEP7 set in the automatic mode is approximately 180 seconds.

④ CEP7 Overload relays do not work with Variable Frequency Drives or any Sprecher + Schuh Softstarter with braking options.

⑤ Terminal covers not necessary when using CA6-HB-\_\_ insulated lugs.

⑥ CEP7-EEHF...CEP7-EENH include current transformers used to monitor high amperage.




#### Accessories - CEP7 Side Mount Modules ①②

Accessory	Description	For use with...	Catalog Number	Price																				
 <p>CEP7-ERR</p>	<p><b>Remote Reset Module (Series B)</b></p> <ul style="list-style-type: none"> <li>Dip switch adjustable reset mode &amp; type                             <ul style="list-style-type: none"> <li>- Automatic or Manual reset mode</li> <li>- 1- or 3-Phase relay type operation</li> </ul> </li> <li>Provision for reset after trip from remote pilot device</li> </ul>	Side-mount to any CEP7-EE CEP7S-EE_	CEP7-ERR	100																				
 <p>CEP7-EJM</p>	<p><b>Jam Protection and Remote Reset Module ③</b></p> <ul style="list-style-type: none"> <li>Dip switch adjustable Jam Protection                             <ul style="list-style-type: none"> <li>- Jam set points -150%, 200%, 300%, or 400% FLA</li> <li>- Trip delay- 0.5, 1, 2, or 4 sec.</li> </ul> </li> <li>Provision for reset after trip from remote pilot device</li> </ul>		CEP7-EJM	110																				
 <p>CEP7-EPT</p>	<p><b>PTC Thermistor Relay and Remote Reset Module</b></p> <ul style="list-style-type: none"> <li>PTC Protection and LED Status indication                             <table border="0" style="margin-left: 20px;"> <tr> <td>Type of Control Unit</td> <td>Mark A</td> </tr> <tr> <td>Number of Sensors</td> <td>6</td> </tr> <tr> <td>Maximum Cold Resistance of Sensor Chain</td> <td>1500 Ω</td> </tr> <tr> <td>Trip Resistance</td> <td>3400 Ω ± 150 Ω</td> </tr> <tr> <td>Reset Resistance</td> <td>1600 Ω ± 50 Ω</td> </tr> <tr> <td>Short Circuit Trip Resistance</td> <td>25 Ω ± 10 Ω</td> </tr> <tr> <td>Open Circuit Trip Resistance</td> <td>&gt; 20,000 Ω</td> </tr> <tr> <td>Maximum Voltage at 1T1 / 1T2 (R<sub>ptc</sub>=4kΩ)</td> <td>&lt; 7.5 Vdc</td> </tr> <tr> <td>Maximum Voltage at 1T1 / 1T2 (R<sub>ptc</sub>=open)</td> <td>&lt; 30 Vdc</td> </tr> <tr> <td>PTC Response Time</td> <td>500ms...800ms</td> </tr> </table> </li> <li>Provision for reset after trip from remote pilot device</li> </ul>	Type of Control Unit	Mark A	Number of Sensors	6	Maximum Cold Resistance of Sensor Chain	1500 Ω	Trip Resistance	3400 Ω ± 150 Ω	Reset Resistance	1600 Ω ± 50 Ω	Short Circuit Trip Resistance	25 Ω ± 10 Ω	Open Circuit Trip Resistance	> 20,000 Ω	Maximum Voltage at 1T1 / 1T2 (R <sub>ptc</sub> =4kΩ)	< 7.5 Vdc	Maximum Voltage at 1T1 / 1T2 (R <sub>ptc</sub> =open)	< 30 Vdc	PTC Response Time	500ms...800ms	Side-mount to any CEP7-EE CEP7S-EE_	CEP7-EPT	125
Type of Control Unit	Mark A																							
Number of Sensors	6																							
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PTC Response Time	500ms...800ms																							
 <p>PROFIBUS CEP7-EPRB</p>	<p><b>Network Communication Modules</b></p> <ul style="list-style-type: none"> <li>Delivers direct access to motor performance and diagnostic data on a field bus based network in addition to seamless control</li> <li><b>Includes integrated I/O</b> <ul style="list-style-type: none"> <li>2 inputs</li> <li>1 output</li> </ul> </li> <li><b>Operational and diagnostic data</b> <ul style="list-style-type: none"> <li>Average motor current</li> <li>Percentage of thermal capacity usage</li> <li>Device status</li> <li>Trip and warning identification</li> <li>Trip history (last five trips)</li> </ul> </li> <li><b>Protective functions</b> <ul style="list-style-type: none"> <li>Overload warning                                     <ul style="list-style-type: none"> <li>- 1...100% TCU</li> </ul> </li> <li>Jam protection;                                     <ul style="list-style-type: none"> <li>- Trip setting 150...600% FLA</li> <li>- Trip delay 0.5...25 seconds</li> </ul> </li> <li>Warning setting 100...600% FLA</li> <li>Underload warning                                     <ul style="list-style-type: none"> <li>- 20...100% FLA</li> </ul> </li> </ul> </li> </ul>	Side-mount to any CEP7-EE CEP7S-EE_	CEP7-EPRB	415																				
 <p>ETHERNET CEP7-ETN</p>			CEP7-ETN	422																				

① Side mount modules must have 24 - 240V, 47 - 63HZ or DC applied to terminals A1 and A2 for control power. CEP7-EPRB and CEP7-ETN require 20.4 - 26.4 VDC only. See B18 for more information.

② See Technical Data, Wiring, and DIP Switch set up starting on page B16  
 ③ Dynamic inhibit: Protective function is enabled after the motor current goes above 150% and then falls below 125%.

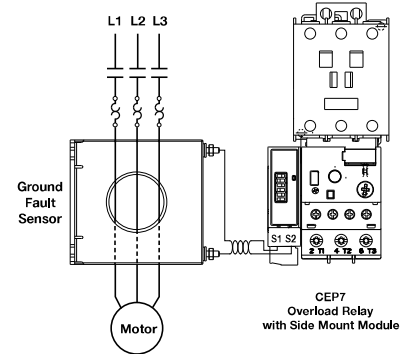
**Accessories - CEP7 Side Mount Modules ①②**

Accessory	Description	For use with...	Catalog Number	Price
 CEP7-EGF	<b>Ground Fault Protection and Remote Reset Module ②③</b> Dip switch adjustable Ground Fault Protection > GF Current range set points - 20...100ma - 100...500mA - 0.2...1.0A - 1.0...5.0A > GF Trip level 20%-100% • LED status indication • Provision for reset after trip from remote pilot device	Side-mount to any CEP-EE CEP7S-EE_	CEP7-EGF	110
 CEP7-EGJ	<b>Ground Fault/Jam Protection and Remote Reset Module ②③</b> • Dip switch adjustable Ground Fault Protection same as CEP7-EGF shown above. • Jam trip when the motor current exceeds 400% FLA setting when enabled. • LED status indication • Provision for reset after trip from remote pilot device	Must use with CEP-CBCT Current Sensor	CEP7-EGJ	145
	<b>Adjustment Cover for External Modules</b>	All modules with DIP Switches	CEP7-EMC	13

**B**  
Motor Protection  
CEP7




**CEP7 Ground Fault Sensor Installation**

Ground Fault Sensor Control Wiring



**CEP7 Ground Fault Sensor Selection ④**

Ground fault current is sensed by passing all lines carrying current to and from a motor through the window of a special current transformer called a ground fault sensor. If all the current to the motor returns through the lines in the sensor window, no significant current will be induced in the sensor secondary. If, however, ground fault current returns via a path external to the sensor, such as via the conduit walls, a current will be induced in the sensor secondary. This current will be sensed and amplified by solid state circuits. If the ground fault current is larger than the selected ground fault trip level of the overload relay, the overload relay will trip.

Sensor Type	Maximum Current	Frequency	Turns Ratio	Sensor Window I.D.	Maximum Recommended Cable Size	For use with CEP7-EGF and CEP7-EGJ and contactor...	Catalog Number	Price
	45A	50/60 Hz	1000:1	19.1mm (0.75 in.)	8 AWG @ 600V ④	CA7-9...CA7-37	CEP7-CBCT1	50
	90A	50/60 Hz	1000:1	39.6mm (1.56 in.)	2 AWG @ 600V ④	CA7-9...CA7-85	CEP7-CBCT2	175
	180A	50/60 Hz	1000:1	63.5 mm (2.50 in.)	250MCM (120mm²) @ 600V ⑤	CA7-09...CA6-180	CEP7-CBCT3	226
	420A	50/60 Hz	1000:1	82.3 mm (3.25 in.)	350MCM (185mm²) @ 600V ⑥	CA7-09...CA6-420	CEP7-CBCT4	287

① Side mount modules must have 24 - 240V, 47 - 63Hz or DC applied to terminals A1 and A2 for control power. See B18 for more information.

② ATTENTION: The CEP7 Overload relay is not a ground fault circuit interrupter for personnel protection as defined in Article 100 of the NEC.

③ See Application Details starting on page B16 .

④ For a three phase system with one cable per phase.

⑤ For a three phase system with two cables per phase.

⑥ Dynamic inhibit: Protective function is enabled after the motor current goes above 150% and then falls below 125%.

#### Accessories

Accessory	Description	For use with...	Catalog Number	Price
	<b>Remote Indication Display "Intellibutton" ②</b> Connects, communicates, and receives power from CEP7 Side Mount Modules to remotely view status of CEP7-EE Overload Relays 	CEP7-EJM CEP7-EGF CEP7-EGJ CEP7-EPT CEP7-ERR	CEP7-ERID	100
	<b>Replacement Parts Kit for CEP7-ERID</b> Includes (1) each Mounting Ring (Plastic), Terminal Block Plug, and L.E.D. Fault Code Label	CEP7-ERID	CEP7-NCRID	27
	<b>DIN-rail / Panel Adaptor</b> For separate mounting of overload relay to back pan or top hat DIN-rail	CEP7-ED1...B CEP7(S)-EE...B	CEP7-EPB	29
		CEP7-ED1..D CEP7(S)-EE...D	CEP7-EPD	29
		CEP7(S)-EE...E	CEP7-EPE	35
	<b>Current Adjustment Shield</b> Prevents inadvertent adjustment of the current setting	all CEP7-ED1 CEP7-EE	CEP7-BC8	13
	<b>Solenoid Remote Reset ③ -</b> For remote resetting of the solid state overload relay. Replace * in Catalog Number with Coil Code.	CEP7 all	CEP7-EMR*	81
	<b>External Reset Button</b> Used for manually resetting overloads mounted in enclosures	all CEP7	Use D7 Reset - See Section H.	~
	<b>External Reset Button Adaptor</b> Provides a larger "target area" for resetting the overload relay when using an External Reset Button	CEP7-ED1(all), CEP7-EE_B, CEP7-EE_D, CEP7-EE_E, CEP7-EE_P ①	CEP7-ERA	14

#### Solenoid Remote Reset Coil Codes

(Replace \* with coil code below)

A.C. Coil Code	Voltage Range 50 / 60 Hz ④	D.C. Coil Code	Voltage ⑤
J	24V	Z24	24VDC
D	120V	Z48	48VDC
A	240V	Z01	115VDC

① At the time of this printing CEP7-ERA does not fit CEP7-EE(HF...HH) without removing the CEP7 cover.




② Solenoid Reset Modules only mount on CEP7 Series C or later.

③ See page B21 for additional details on installation and LED functions.







④ Coil consumption of AC coils is 8VA.





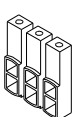


⑤ Coil consumption of DC coils is 12 watts.

**CEP7 Intelli-button Reset Kit with Side Mount Module (For use on CEP7(S)-EE\_)**

Accessory	Description	Kit includes...	Catalog Number	Price
	Remote Reset Only	CEP7-ERID CEP7-ERR	CEP7-IB1	200
	Jam and Remote Reset	CEP7-ERID CEP7-EJM (B)	CEP7-IB2	210
	Thermistor Relay and Remote Reset	CEP7-ERID CEP7-EPT	CEP7-IB3	225
	Ground Fault and Remote Reset	CEP7-ERID CEP7-EGF CEP7-CBCT1 (45A)	CEP7-IB4	260
		CEP7-ERID CEP7-EGF CEP7-CBCT2 (90A)	CEP7-IB5	385
		CEP7-ERID CEP7-EGF CEP7-CBCT3 (180A)	CEP7-IB6	436
		CEP7-ERID CEP7-EGF CEP7-CBCT4 (420A)	CEP7-IB7	497
	Ground Fault and Jam and Remote Reset Module	CEP7-ERID CEP7-EGJ CEP7-CBCT1 (45A)	CEP7-IB8	295
		CEP7-ERID CEP7-EGJ CEP7-CBCT2 (90A)	CEP7-IB9	420
		CEP7-ERID CEP7-EGJ CEP7-CBCT3 (180A)	CEP7-IB10	471
		CEP7-ERID CEP7-EGJ CEP7-CBCT4 (420A)	CEP7-IB11	532

#### Technical Information

		CEP7-ED1...B CEP7-EE...B	CEP7-ED1ED..FD CEP7-EE...D	CEP7-EE...E
<b>Rated Insulation Voltage - <math>U_i</math></b>		690 AC		
<b>Rated Insulation Strength- <math>U_{imp}</math></b>		6 AC		
<b>Rated Operation Voltage - <math>U_e</math></b>		690 AC (IEC) / 600 AC (UL/CSA)		
<b>Rated Operating Frequency</b>		50/60		
<b>Terminal Cross Sections</b>				
Terminal Type		M5	M5	M8
Terminal Screw		M5	M5	M8
	One conductor	1 x (2.5...16)	1 x (2.5...16)	1 x (4...50)
	Two conductors	2 x (2.5...10) ①	2 x (2.5...10) ①	2 x (4...25)
	One conductor	1 x (2.5...25)	1 x (2.5...25)	1 x (4...50)
	Two conductors	2 x (6...16) ①	2 x (6...16) ①	2 x (4...35)
	One conductor	1 x (14...6)	1 x (14...6)	1 x (12...1/0)
	Two conductors	2 x (14...6) ①	2 x (14...6) ①	2 x (8...2)
Poizidrive Screwdriver Size		2	2	---
Slotted screwdriver		1 x 6	1 x 6	
Hexagon Socket Size				4

		CEP7-EE_F	CEP7-EE_G	CEP7-EE_H
<b>Rated Insulation Voltage - <math>U_i</math></b>		1000 AC		
<b>Rated Insulation Strength- <math>U_{imp}</math></b>		6 AC		
<b>Rated Operation Voltage - <math>U_e</math></b>		1000 AC (IEC) / 600 AC (UL/CSA)		
<b>Rated Operating Frequency</b>		50/60		
<b>Terminal Power</b>				
Type		Hexagonal Bolt	Hexagonal Bolt	Hexagonal Bolt
Direct Connection 		M8 x 25	M10 x 30	M12 x 40
Recommended Torque		11 [lb-in]	4 380	68 600
<b>With Main Terminal Set (CA6...HB...)</b>		<b>With CA6-HB2</b>	<b>With CA6-HB3</b>	
	sm. opening	16...50	25...240	~
	lg. opening	16...120	25...240	~
	sm. opening	16...50	25...240	~
	lg. opening	16...120	25...240	~
	b max.	20	25	~
	s. sm. opening	3...9	6...20	~
CA6-HB	lg. opening	3...14	6...20	~
	Recommended Torque	10...12	20...25	~
Wire size per UL/CSA	sm. opening	#6...1 / 0	#4...600MCM	~
	lg. opening	#6...250MCM	#4...600MCM	~
Recommended Torque		90...110	180...220	~
<b>With Screw-type Lugs - Copper Clad (CA6-L...)</b>				<b>W/CEP7-EEMH</b> / <b>W/CEP7-EEHH</b>
<b>CA6-L180</b>		#6...250 MCM	~	~ / ~
Recommended Torque		90...110	~	~ / ~
<b>CA6-L420</b>		~	#2...350 MCM	~ / ~
Recommended Torque		~	75	~ / ~
<b>CA6-L630</b>		~	~	2/0...500 MCM / 400
Recommended Torque		~	~	~ / ~
<b>CA6-L860</b>		~	~	~ / 2/0...500 MCM
Recommended Torque		~	~	~ / 400

① For multiple conductor applications the same style and size of wire must be used.