

# Overload Relays Communicates Control and Protection

## Overload Relay Protection Modules

Seamless development of motor starters with remote reset and jam protection module based communication can now be cost effective with the CEP7-EE... and CEP7(S)-EE... electronic overload relay and optional field installable communications modules with minimal space requirements (~22mm). Streamline your processes with better control and protection capabilities for improved efficiency.

### CEP7-ERR Remote Reset Module

- Side module connects to a:
  - CEP7-ERID or
  - D7 pilot device reset pushbutton
- Dip switch adjustable reset mode and type
  - Automatic or Manual reset mode
  - 1- or 3-phase relay type operation
- Provision for reset after trip from remote pilot device



### CEP7-EJM Jam Protection and Remote Reset Module

The Jam module can help you control applications that involve frequent overload and locked rotor conditions like mixers, crushers, cranes, saws and conveyors.

- Dip switch adjustable Jam Protection
  - Jam set points - 100%, 125%, 200%, 300%, 400% or 600% FLA
  - Trip delay - 0.1, 0.5, 1, 2, 3, 4, 5 or 10 sec
- Provision for reset after trip from remote pilot device



### Advantages

#### • Simplifies control

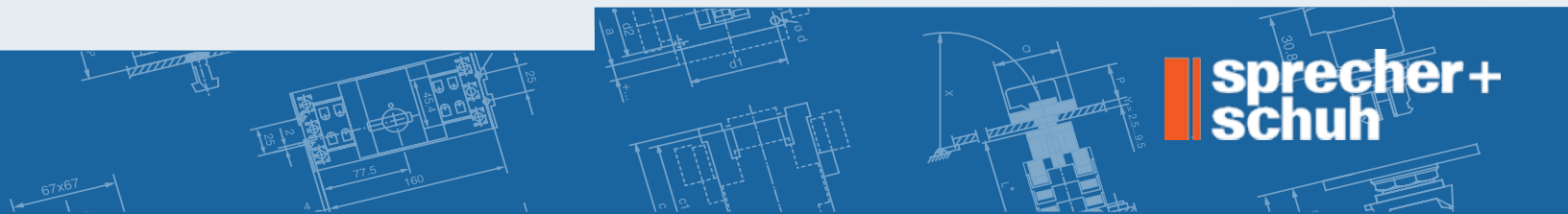
- Side-mount modules electronically interface with the CEP7(S) Overload Relay so that all control circuit connections are made at the Overload Relay terminals.

#### • Expands protective functions (CEP7-EJM only)

- Jam protection (Trip delay; Warning setting FLA)

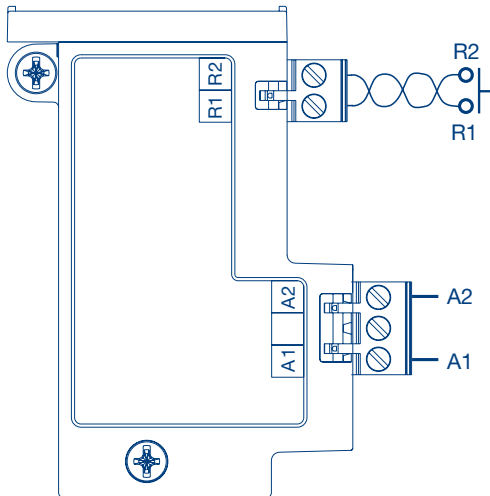
#### • Compact size

- Direct mounting to the left side of the current sensing CEP7(S)-EE Overload Relay only adds ~22mm to the width

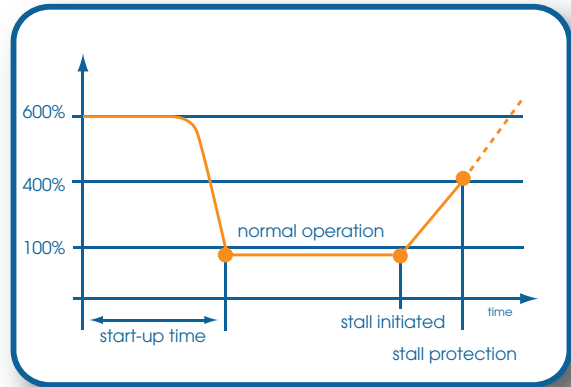




# Remote Reset and Jam Protection Modules



- Apply 24 - 240V, 47 - 63HZ or DC to terminals A1 and A2 for control power.
- Connect remote reset pilot device to Terminals R1 and R2.



The Jam Module contains a unique circuit that monitors motor inrush current. The jam circuit is inhibited during inrush until current falls below 125% on start-up.

### CEP7-ERR Dip Switch

<b>Overload Relay Remote Reset</b>	SW1	Manual: 1	Automatic: 0
<b>Overload Relay Type</b>	SW2	3 Phase : 1	1 Phase:0
	SW3	Not Used	

### CEP7-EJM Dip Switch

<b>Remote Reset</b>	SW1	Manual: 1	Automatic: 0
<b>Jam Trip Level</b>	SW5	SW6	SW7
100%	0	0	0
125%	0	1	0
150%	0	1	1
200%	1	0	1
300%	1	0	1
400%	1	1	0
600%	1	1	1
<b>Jam Trip Delay</b>	SW2	SW3	SW4
0.1 sec	0	0	0
0.5 sec	0	0	1
1 sec	0	1	0
2 sec	0	1	1
3 sec	1	0	0
4 sec	1	0	1
5 sec	1	1	0
10 sec	1	1	1
<b>SW8</b>	3 Phase: 1	1 Phase: 0	

### CEP7-ERR Operational LED

<b>Status LED:</b>	<b>Steady Green</b> - Module is powered up.
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### CEP7-EJM Operational LED

	<b>Green Flash</b> - Module is powered up.
	<b>Green Solid</b> - Module powered plus motor current present
<b>Status LED:</b>	<b>Red Flash</b> - Warning: Fault detected and CEP7 preparing to trip.
	<b>Red Solid</b> - Hardware fault. Internal hardware fault detected and CEP7 trip attempted. Recover fault by cycling supply voltage.



## CEP7-ERRID VALUE KITS

Intelli-buttons and your choice of the side-mounted modules can be ordered as (a) individual components, (b) the combination of necessary parts can be ordered as a kit or (c) you can have these kits installed in any control panel built by Sprecher + Schuh that contains a CEP7(S)-EE\_ overload relay. Check out our Intelli-button flyer for the Value Kit details.

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