

# Overload Relay Code Transition

## PROBLEM:

Built-up motor starters with an O/L relay code for identification required a change as Sprecher+Schuh transitioned from 2nd generation CEP7-ED1/EE versions to the 3rd generation CEP7-1 versions. The documentation for these proper references is:

- catalog page C105 2nd generation CEP7-ED1/EE overload relay codes
- catalog page C105.1 3rd generation CEP7-1 overload relay codes

The intent of this Technical Tip is to bring together these two pages into one helpful table –



### 2<sup>nd</sup> Generation CEP7-ED1/EE

#### CA7 Contactor with CEP7 Overload Relay

For use with contactor...	Amp Range	Overload Relay Code (↔)	Catalog Number (of Overload Relay)	
<b>3-Phase / Manual Reset / Class 10</b>				
CA7-9...CA7-23	0.1...0.5	D1AB	CEP7-ED1AB	crosses to →
	0.2...1.0	D1BB	CEP7-ED1BB	crosses to →
	1.0...5.0	D1CB	CEP7-ED1CB	crosses to →
	3.2...16	D1DB	CEP7-ED1DB	crosses to →
	5.4...27	D1EB	CEP7-ED1EB	crosses to →
CA7-30...CA7-55	1.0...5.0	D1CD	CEP7-ED1CD	crosses to →
	3.6...16	D1DD	CEP7-ED1DD	crosses to →
	5.4...27	D1ED	CEP7-ED1ED	crosses to →
	9...45	D1FD	CEP7-ED1FD	crosses to →

#### 3-Phase / Auto or Manual / Adjustable Trip Class 10, 15,

CA7-9...CA7-23	0.1...0.5	EAB	CEP7-EEAB	crosses to →
	0.2...1.0	EBB	CEP7-EEBB	crosses to →
	1.0...5.0	ECB	CEP7-EECB	crosses to →
	3.2...16	EDB	CEP7-EEDB	crosses to →
	5.4...27	EEB	CEP7-EEEB	crosses to →
CA7-30...CA7-55	1.0...5.0	ECD	CEP7-EECD	crosses to →
	3.2...16	EDD	CEP7-EEED	crosses to →
	5.4...27	EED	CEP7-EEED	crosses to →
	9...45	efd	CEP7-EEFD	crosses to →
CA7-55	11...55	EQD	CEP7-EEQD	crosses to →
CA7-60...CA7-97	5.4...27	EEE	CEP7-EEEE	crosses to →
	9...45	EFE	CEP7-EEFE	crosses to →
	18...90	EGE	CEP7-EEGE	crosses to →
	60...120	EVE	CEP7-EEVE	crosses to →

#### 1-Phase / Automatic or Manual Reset / Class 10

CA7-9...CA7-23	1.0...5.0	EPB	CEP7S-EEPB	crosses to →
	3.2...16	ERB	CEP7S-EERB	crosses to →
	5.4...27	ESB	CEP7S-EESB	crosses to →
CA7-30...CA7-43	9...45	ETD	CEP7S-EETD	crosses to →
CA7-60...CA7-97	18...90	EUE	CEP7S-EEUE	crosses to →

### 3<sup>rd</sup> generation CEP7-1

#### CA7 Contactor with CEP7 Overload Relay

For use with contactor...	Amp Range	Overload Relay Code (↔)	Catalog Number (of Overload Relay)
<b>Manual Reset / Trip Class 10 or 20</b>			
CA7-9...CA7-23	0.1...0.5	1EAB	CEP7-1EEAB
	0.2...1.0	1EBB	CEP7-1EEBB
	1.0...5.0	1ECB	CEP7-1EECB
	3.2...16	1EDB	CEP7-1EEDB
	5.4...27	1EEB	CEP7-1EEEB
CA7-30...CA7-55	1.0...5.0	FCP	CEP7-1EFCP
	3.6...16	FDP	CEP7-1EFDP
	5.4...27	1EED	CEP7-1EEED
	11...55	1EFD	CEP7-1EEFD
CA7-60...97	20...100	1EGE	CEP7-1EEGE

#### Auto or Manual Reset / Trip Class 10...30

CA7-9...CA7-23	0.1...0.5	FAB	CEP7-1EFAB
	0.2...1.0	FBB	CEP7-1EFBB
	1.0...5.0	FCB	CEP7-1EFGB
	3.2...16	FDB	CEP7-1EFDB
	5.4...27	FEB	CEP7-1EFEB
CA7-30...CA7-55	1.0...5.0	FCP	CEP7-1EFCP
	3.2...16	FDP	CEP7-1EFDP
	5.4...27	FED	CEP7-1EFED
	11...55	FFD	CEP7-1EFFD
CA7-55	11...55	FFD	CEP7-1EFFD
CA7-60...CA7-97	5.4...27	FEP	CEP7-1EFEP
	9...45	FFP	CEP7-1EFFP
	20...100	FGE	CEP7-1EFGE
	20...100	FGE	CEP7-1EFGE

#### Auto or Manual Reset / Trip Class 10...30

CA7-9...CA7-23	1.0...5.0	FCB	CEP7-1EFCB
	3.2...16	FDB	CEP7-1EFDB
	5.4...27	FEB	CEP7-1EFEB
	11...55	FFD	CEP7-1EFFD
	20...100	FGE	CEP7-1EFGE