

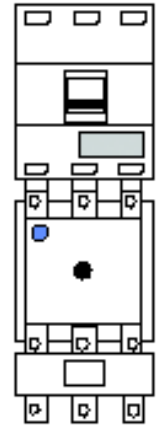


# BULLETIN 100/140M/193

## MCS Short-Circuit Current Ratings

### Short-Circuit Protection Ratings

Starting: Direct-on-line and reversing  
 Short-circuit protective device: Bulletin 140M Motor Circuit Protector (MCP)  
 UL 489 magnetic only  
 Contactor: Bulletins 100-C, 100-D  
 Overload Relay: Bulletin 193 E1 Plus, E3 & E3 Plus  
 Rated Operational Voltage: 380...400V, 50 Hz  
 Test Voltage: 483V, 60 Hz  
 Rated Conditional Short-Circuit Current ( $I_q$ ): 65 kA  
 Level of Short-Circuit Coordination: Type 1 or 2 per IEC 60947-4  
 UL 508 High Fault SCCR



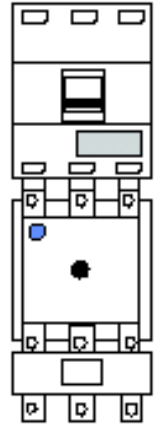
Motor		Circuit Breaker		Contactor	Overload Relay		IEC Coordination	
3-phase (kW)	1500 rpm [A]	Catalog No. (Max.)	Magnetic Setting [A]	Catalog No.	Catalog No. Ⓢ	Thermal Setting [A]	Coordination Type	Test Summary Letter
4	9	140M-H8P-C15	3...10X	100-C30Ⓢ10	193-EEED	3.2...16	Type 2	—
5.5	12	140M-H8P-C15	3...10X	100-C30Ⓢ10	193-EEED	3.2...16	Type 2	—
7.5	16	140M-H8P-C30	3...10X	100-C30Ⓢ10	193-EEFD	9...45	Type 2	—
11	23	140M-H8P-C50	3...10X	100-C30Ⓢ10	193-EEFD	9...45	Type 2	—
15	30	140M-H8P-C50	3...10X	100-C30Ⓢ10	193-EEFD	9...45	Type 2	—
20	37	140M-H8P-C50	3...10X	100-C37Ⓢ10	193-EEFD	9...45	Type 2	—
22	43	140M-H8P-C50	3...10X	100-C43Ⓢ10	193-EEFD	9...45	Type 2	—
32	60	140M-H8P-D10	3...10X	100-C60Ⓢ10	193-EEGE	18...90	Type 2	—
40	72	140M-H8P-D10	3...10X	100-C72Ⓢ10	193-EEGE	18...90	Type 2	—
45	85	140M-H8P-D10	3...10X	100-C85Ⓢ10	193-EEGE	18...90	Type 2	—
55	95	140M-H8P-D10	3...10X	100-D95Ⓢ11	193-EEHF	30...150	Type 1 Ⓢ	—
63	110	140M-H8P-D10	3...10X	100-D110Ⓢ11	193-EEHF	30...150	Type 1 Ⓢ	—
82	140	140M-J8P-D20	3...10X	100-D140Ⓢ11	193-EEHF	30...150	Type 1	—
105	180	140M-J8P-D20	3...10X	100-D180Ⓢ11	193-EEJF	40...200	Type 1	—
122	210	140M-J8P-D25	3...10X	100-D210Ⓢ11	193-EEKG	60...300	Type 2	—
145	250	140M-K8P-D40	3...10X	100-D250Ⓢ11	193-EEKG	60...300	Type 1	—
176	300	140M-K8P-D40	3...10X	100-D300Ⓢ11	193-EEJG	100...500	Type 1	—
250	420	140M-K8P-D40	3...10X	100-D300Ⓢ11	193-EEJG	100...500	Type 1	—

Data applies to 193-E1 Plus, E3 & E3 Plus

Type 2 Coordination when contactor is upsized to Cat. No. 100-D210

## Short-Circuit Protection Ratings

Starting:	Direct-on-line and reversing
Short-circuit protective device:	Bulletin 140M Motor Circuit Protector (MCP) UL 489 magnetic only
Contactor:	Bulletins 100-C, 100-D
Overload Relay:	Bulletin 193 E1 Plus, E3 & E3 Plus
Rated Operational Voltage:	415V, 50 Hz
Test Voltage:	483V, 60 Hz
Rated Conditional Short-Circuit Current ( $I_{sc}$ ):	65 kA
Level of Short-Circuit Coordination:	Type 1 or 2 per IEC 60947-4 UL 508 High Fault SCCR



Motor		Circuit Breaker		Contactor	Overload Relay		IEC Coordination	
3-phase (kW)	1500 rpm [A]	Catalog No. (Max.)	Magnetic Setting [A]	Catalog No.	Catalog No.	Thermal Setting [A]	Coordination Type	Test Summary Letter
4	9	140M-H8P-C15	3...10X	100-C30⊗10	193-EEED	3.2...16	Type 2	—
5.5	12	140M-H8P-C15	3...10X	100-C30⊗10	193-EEED	3.2...16	Type 2	—
7.5	16	140M-H8P-C30	3...10X	100-C30⊗10	193-EEFD	9...45	Type 2	—
11	23	140M-H8P-C50	3...10X	100-C30⊗10	193-EEFD	9...45	Type 2	—
15	30	140M-H8P-C50	3...10X	100-C30⊗10	193-EEFD	9...45	Type 2	—
20	37	140M-H8P-C50	3...10X	100-C37⊗10	193-EEFD	9...45	Type 2	—
22	43	140M-H8P-C50	3...10X	100-C43⊗10	193-EEFD	9...45	Type 2	—
32	60	140M-H8P-D10	3...10X	100-C60⊗10	193-EEGE	18...90	Type 2	—
40	72	140M-H8P-D10	3...10X	100-C72⊗10	193-EEGE	18...90	Type 2	—
45	85	140M-H8P-D10	3...10X	100-C85⊗10	193-EEGE	18...90	Type 2	—
55	95	140M-H8P-D10	3...10X	100-D95⊗11	193-EEHF	30...150	Type 1 [1]	—
63	110	140M-H8P-D10	3...10X	100-D110⊗11	193-EEHF	30...150	Type 1 [1]	—
82	140	140M-J8P-D20	3...10X	100-D140⊗11	193-EEHF	30...150	Type 1 [1]	—
105	180	140M-J8P-D20	3...10X	100-D180⊗11	193-EEJF	40...200	Type 1 [1]	—
122	210	140M-J8P-D25	3...10X	100-D210⊗11	193-EEKG	60...300	Type 2	—
145	250	140M-K8P-D40	3...10X	100-D250⊗11	193-EEKG	60...300	Type 1	—
176	300	140M-K8P-D40	3...10X	100-D300⊗11	193-EEJG	100...500	Type 1	—
250	420	140M-L8P-D40	3...10X	100-D420⊗11	193-EEJG	100...500	Type 1	—

Data applies to 193-E1 Plus, E3 & E3 Plus

Type 2 Coordination when contactor is upsized to Cat. No. 100-D210

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