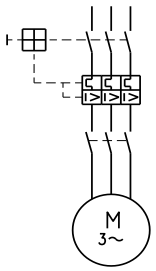
Short-circuit Coordination

2025/09/04

Starter Type:	Direct-on-Line & Reversing - Trip Class 10 2C Starter: MPCB + Contactor
S.C. Protective Device:	**Motor Protection Circuit Breaker (MPCB)** **UL 60947-4-1 Type E Self-Protected Combination Motor Controller**
Contactor:	100-C similar for other contactor configurations (104-C, 100S-C, 104S-C)
Overload Relay:	---
Rated Operational Voltage:	**600Y/347V 50/60 Hz**
Test Voltage:	600V 50Hz
Rated Conditional S.C. Current (Iq):	**30…50kA (rms sym.)**
Level of S.C. Coordination:	**Type "2" per UL 60947-4-1** **UL 60947-4-1 Combination Motor Controller Type F (CMC)**



Motor		Circuit Breaker			Contactor	S.C. Coordination		
3 ph [HP]	1500 rpm [A]	Catalog Number	Motor Current Adjustment Range [A]	Magnetic Trip Current [A]	Catalog Number 1)	Coordination Type	Connection Module 2)	SCCR Remark [kA]
---	0.16	**140MT-C3E-A16**	0.10 - 0.16	2.2	**100-C09…**	Type 2	140MT-C-PEC23 140MT-C-PNC23	**50**
---	0.25	**140MT-C3E-A25**	0.16 - 0.25	3.5				
---	0.4	**140MT-C3E-A40**	0.25 - 0.40	5.6				
---	0.63	**140MT-C3E-A63**	0.40 - 0.63	8.8				
1/2	0.9	**140MT-C3E-B10**	0.63 - 1.0	14				
3/4	1.3	**140MT-C3E-B16**	1.0 - 1.6	22				
1 1/2	2.4	**140MT-C3E-B25**	1.6 - 2.5	35	**100-C23…**			**30**
3	3.9	**140MT-C3E-B40**	2.5 - 4.0	56	**100-C30…**		---	
---	0.63	**140MT-D9E-A63**	0.40 - 0.63	8.8	**100-C09…**	Type 2	140MT-D-PEC23 140MT-D-PNC23	**50**
1/2	0.9	**140MT-D9E-B10**	0.63 - 1.0	14				
3/4	1.3	**140MT-D9E-B16**	1.0 - 1.6	22				
1 1/2	2.4	**140MT-D9E-B25**	1.6 - 2.5	35	**100-C23…**			**30**
3	3.9	**140MT-D9E-B40**	2.5 - 4.0	56	**100-C30…**		140MT-D-PEC37 140MT-D-PNC37	
5	6.1	**140MT-D9E-B63**	4.0 - 6.3	88				
7 1/2	9	**140MT-D9E-C10**	6.3 - 10	140				
10	11	**140MT-D9E-C16**	10 - 16	224				
---	0.63	**140MT-D9T-A63**	0.40 - 0.63	14	**100-C09…**	Type 2	140MT-D-PEC23 -PNC23	**50**
1/2	0.9	**140MT-D9T-B10**	0.63 - 1.0	22				
3/4	1.3	**140MT-D9T-B16**	1.0 - 1.6	35	**100-C23…**			**30**
1 1/2	2.4	**140MT-D9T-B25**	1.6 - 2.5	55	**100-C30…**		140MT-D-PEC37 140MT-D-PNC37	
3	3.9	**140MT-D9T-B40**	2.5 - 4.0	88				
5	6.1	**140MT-D9T-B63**	4.0 - 6.3	139				
7 1/2	9	**140MT-D9T-C10**	6.3 - 10	220				
10	11	**140MT-F9E-C12**	9 - 12	180	**100-C30…**	Type 2	140MT-F-PNC37	**30**
10	11	**140MT-F9E-C16**	12 - 16	240				
15	17	**140MT-F9E-C20**	15 - 20	300				
20	22	**140MT-F9E-C25**	19 - 25	375				
25	27	**140MT-F9E-C32**	24 - 32	480				
30	32	**140MT-F9E-C38**	30 - 38	570	**100-C37…**			
40	41	**140MT-F9E-C45**	36 - 45	675	**100-C55…**		140MT-F-PNC55	
20	22	**140MT-F9T-C25**	19 - 25	550	**100-C30…**	Type 2	140MT-F-PNC37	**30**
25	27	**140MT-F9T-C32**	24 - 32	704				
30	32	**140MT-F9T-C38**	30 - 38	836	**100-C37…**			
40	41	**140MT-F9T-C45**	36 - 45	990	**100-C55…**		140MT-F-PNC55	

Typical motor currents according to UL 60947-4-1 Table G.1
Heavy Duty Starting and High Inrush Motors may require oversizing of fuse and/or contactor

1) Incomplete catalog number, add coil code and auxiliary contacts
2) Connection modules are optional

Note: This data is subject to change by Rockwell Automation without notice. Go to www.rockwellautomation.com/products/certifcation for latest information.

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