

Circuit Protection Design and SCCR Tables-NEMA Motor Control

Starter Type	Contactor	OLR	Circuit protection Type/ Performance Spec	SCCR	Motor Voltage- 3 Phase Input					
					60Hz				480Y	600Y
					200V	240V	480V	600V		
2C Load Feeder (MPCB + Contactor)	AC Contactors		140M/MG + 300 (UL 489/508 CB) UL 508 MPCB				3721M			
			140M + 300 (Type E) UL 508 MPCB				3722M	3732M		
			140M + 300 (Type F) UL 508 MPCB				3723M	3733M		
3C Starter (Fuses + Contactor + OLR)	Feed-Through Wiring Contactors for Motor Loads	Eutectic Alloy w/ Heater Elements				3111M	3112M	3113M		
		Electronic				3121M	3122M	3123M		
	Bulletin 300	Bimetallic				3142M				
		E1 Plus	IEC Specification (i.e., 100kA Type 2)			31315M	31615M			
		E300/E200				31335M	31635M			
		E100	UL Specification (i.e., 65kA Type A)			3132AM	3162AM			
		E100	UL Specification (100kA Type 1)			3132BM	3162BM			
		E100	UL Specification (100kA Type 2)			3132CM	3162CM			
	500F	E100	Other			31B29M	31329M	31629M		
3C Starter (MCCB + Contactor + OLR)	500F	E100					32329M	32629M	32829M	32929M
	Bulletin 300	E300/E200				33339M	33639M			
		E1 Plus				33319M	33619M			
		E100...300							32849A	32949A
		E100							32829A	32929A
		E100	140G + 300 UL508						32829X	
		Eutectic Alloy w/ Heater Elements				3211M	3212M	3213M		
		Electronic				3221M	3222M	3223M		
3C Starter (MCP + Contactor + OLR)	Bulletin 300	E100			36A20M	36B20M	36320M	36620M		
	Feed-Through Wiring Contactors for Motor Loads	Eutectic Alloy w/ Heater Elements				3311M	3312M	3313M		
		Electronic				3321M	3322M	3323M		
	AC Contactors	Electronic (Circuit Protection Type 140M)					3332M	3333M		
		Electronic (Circuit Protection Type 140MG)					3342M	3343M		

Starter Type	Contactor	OLR	Performance Spec	SCCR	Line Voltage- 3 Phase Input					
					60Hz				480Y	600Y
					200V	240V	480V	600V		
2C Load Feeder (Fuses + Contactor)					3401M	3402M	3403M			
2C Load Feeder (MCCB + Contactor)	Feed-Through Wiring Contactors for Motor Loads			65 kA		3501M	3502M			
				35 kA		35011M	35021M			
				25 kA		35012M	35022M	35032M		
				18 kA				35033M		
				14 kA				35034M		
	AC Contactors			65 kA			36020E			
				35 kA			36021E			
				25 kA			36022E	36032E		
				18 kA				36033E		
				14 kA				36034E		