

Freedom UL short-circuit current ratings

Changes to UL® 508A and the NEC® in recent years have brought a focus to control panel safety with regard to short-circuit current ratings (SCCR). The Freedom line of contactors and starters have a wide variety of SCCR solutions for a variety of applications and needs. The SCCR data provided in this document reflects the latest information as of April 2020.

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For additional information, please visit our website: [Eaton.com/Freedom](https://www.eaton.com/Freedom)



Powering Business Worldwide

Standard fault ratings

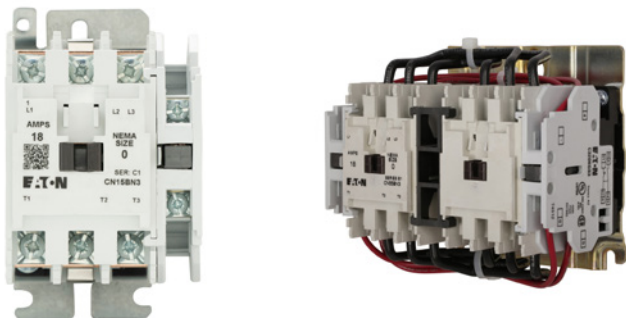


Table 1. CN15 contactors – Standard fault ratings

NEMA size	Catalog prefix	SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker
00	CN15A_	5,000 A	35 A	35 A
0	CN15B_	5,000 A	70 A	70 A
1	CN15D_	5,000 A	100 A	100 A
2	CN15G_	5,000 A	175 A	175 A
3	CN15K_	10,000 A	350 A	350 A
4	CN15N_	10,000 A	400 A	400 A
5	CN15S_	10,000 A	500 A	600 A

NEMA size	Catalog prefix	SCCR at 600VAC	Max. class L non-time delay fuse	Max. listed circuit breaker
6	CN15T_	18,000 A	1600 A	1600 A
7	CN15U_	30,000 A	2000 A	2000 A
8	CN15V_	42,000 A	1600 A	1600 A

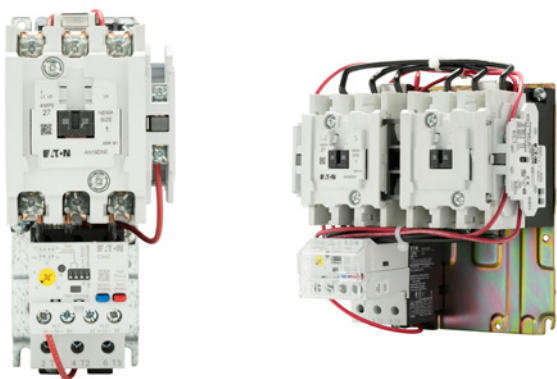


Table 2. AN19 starters – Standard fault ratings

NEMA size	Catalog prefix	SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker
00	AN19A_	5,000 A	35 A	35 A
0	AN19B_	5,000 A	70 A	70 A
1	AN19D_	5,000 A	100 A	100 A
2	AN19G_	5,000 A	175 A	175 A
3	AN19K_	10,000 A	350 A	350 A
4	AN19N_	10,000 A	400 A	400 A
5	AN19S_	10,000 A	500 A	600 A



The C440/XTOE electronic overload relay delivers enhanced motor protection and communications capabilities in a single compact device, directly monitoring motor current in each phase. Thermal modeling is performed electronically with precision solid-state components.

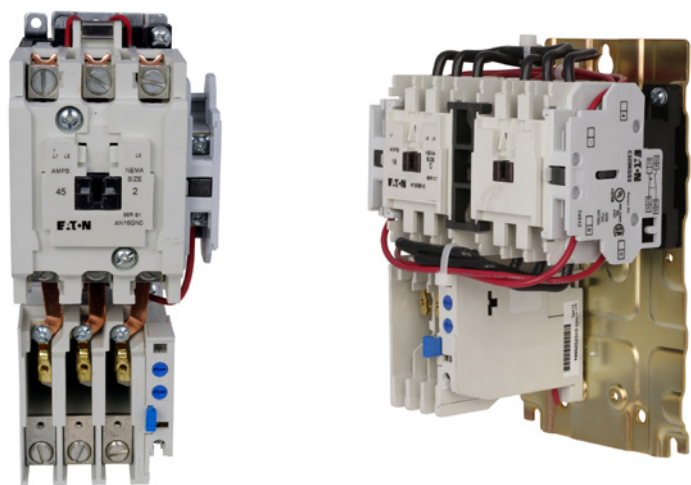


Table 3. AN16 starters – Standard fault ratings

NEMA size	Catalog prefix	SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker
00	AN16A_	5,000 A	35 A	35 A
0	AN16B_	5,000 A	70 A	70 A
1	AN16D_	5,000 A	100 A	100 A
2	AN16G_	5,000 A	175 A	175 A
3	AN16K_	10,000 A	350 A	350 A
4	AN16N_	10,000 A	400 A	400 A
5	AN16S_	10,000 A	500 A	600 A

NEMA size	Catalog prefix	SCCR at 600VAC	Max. class L non-time delay fuse	Max. listed circuit breaker
6	AN16T_	18,000 A	1600 A	1600 A
7	AN16U_	30,000 A	2000 A	2000 A
8	AN16V_	42,000 A	1600 A	1600 A

High fault ratings

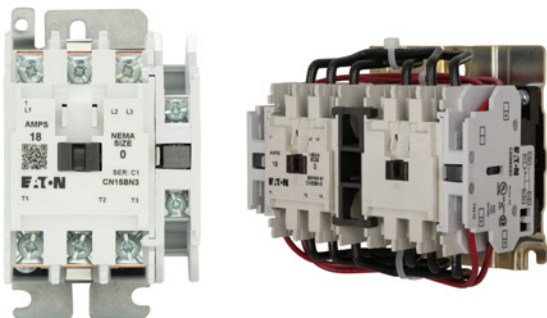


Table 4. CN15 contactors – High fault ratings

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker at 480/600VA	Circuit breaker SCCR at 480VAC	Circuit breaker SCCR at 600VA
00	CN15A_	100,000 A	35 A	35 A	100,000 A	35,000 A
0	CN15B_	100,000 A	70 A	70 A	100,000 A	35,000 A
1	CN15D_	100,000 A	100 A	100 A	100,000 A	35,000 A
2	CN15G_	100,000 A	100 A	175 A	100,000 A	35,000 A
3	CN15K_	100,000 A	200 A	250 A	50,000 A	50,000 A
4	CN15N_	100,000 A	400 A*	300 A	100,000 A	65,000 A
5	CN15S_	100,000 A	500 A	500 A	50,000 A	35,000 A

*Only class J non-time delay fuse

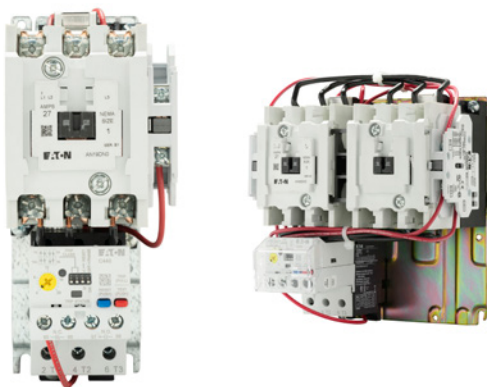


Table 5. AN19 starters – High fault ratings

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker at 480/600VA	Circuit breaker SCCR at 480VAC	Circuit breaker SCCR at 600VA
00	AN19A_	100,000 A	35 A	35 A	100,000 A	35,000 A
0	AN19B_	100,000 A	70 A	70 A	100,000 A	35,000 A
1	AN19D_	100,000 A	100 A	100 A	100,000 A	35,000 A
2	AN19G_	100,000 A	100 A	175 A	100,000 A	35,000 A
3	AN19K_	100,000 A	200 A	250 A	50,000 A	50,000 A
4	AN19N_	100,000 A	400 A*	300 A	100,000 A	65,000 A
5	AN19S_	100,000 A	500 A	500 A	50,000 A	35,000 A

*Only class J non-time delay fuse

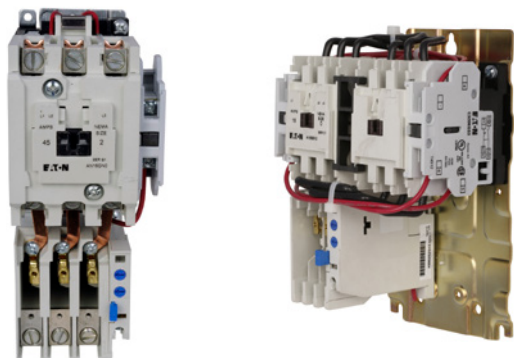


Table 6. AN16 starters – High fault ratings

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J non-time delay fuse	Max. listed circuit breaker at 480/600VA	Circuit breaker SCCR at 480VAC	Circuit breaker SCCR at 600VA
00	AN16 A _	100,000 A	35 A	35 A	100,000 A	35,000 A
0	AN16 B _	100,000 A	70 A	70 A	100,000 A	35,000 A
1	AN16 D _	100,000 A	100 A	100 A	100,000 A	35,000 A
2	AN16 G _	100,000 A	100 A	175 A	100,000 A	35,000 A
3	AN16 K _	100,000 A	200 A	250 A	50,000 A	50,000 A
4	AN16 N _	100,000 A	400 A*	300 A	100,000 A	65,000 A
5	AN16 S _	100,000 A	500 A	500 A	50,000 A	35,000 A

*Only class J non-time delay fuse

High fault ratings with time-delay fuses

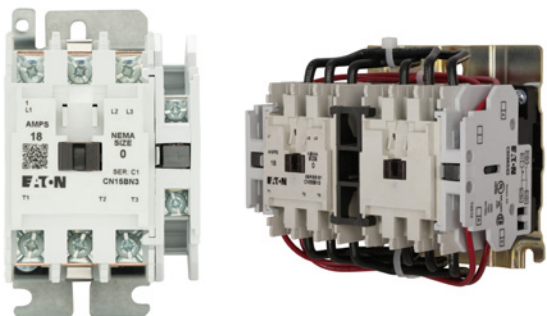


Table 7. CN15 contactors – High fault ratings with time-delay fuses

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J time-delay fuse
00	CN15A_	100,000 A	15 A
0	CN15B_	100,000 A	25 A
1	CN15D_	100,000 A	50 A
2	CN15G_	100,000 A	100 A
3	CN15K_	50,000 A	200 A
4	CN15N_	100,000 A	225 A
5	CN15S_	-	-

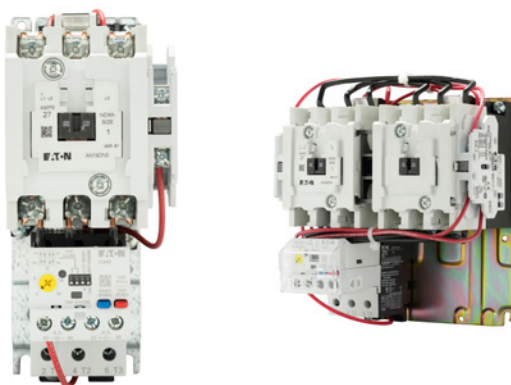


Table 8. AN19 starters – High fault ratings with time-delay fuses

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J time-delay fuse
00	AN19A_	100,000 A	15 A
0	AN19B_	100,000 A	25 A
1	AN19D_	100,000 A	50 A
2	AN19G_	100,000 A	100 A
3	AN19K_	50,000 A	200 A
4	AN19N_	100,000 A	225 A
5	AN19S_	-	-

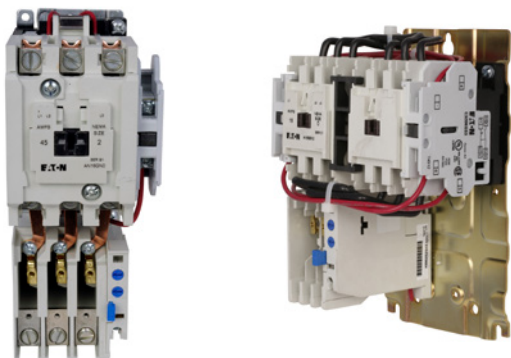


Table 8. AN16 starters – High fault ratings with time-delay fuses

NEMA size	Catalog prefix	Fuse SCCR at 600VAC	Max. class RK-5 or J time-delay fuse
00	AN16A_	100,000 A	15 A
0	AN16B_	100,000 A	25 A
1	AN16D_	100,000 A	50 A
2	AN16G_	100,000 A	100 A
3	AN16K_	50,000 A	200 A
4	AN16N_	100,000 A	225 A
5	AN16S_	-	-

