

C440 Electronic Overload Relay



C440 – Overview

Eaton's new solid-state overload relay (SSOL) is the most compact, high featured, economical product in its class. Designed on a global platform, the new SSOL covers the entire power control spectrum including NEMA, IEC and DP contactors. The NEMA and DP versions are offered with the C440 designation while the IEC offering includes the XTOE version. The electronic design provides reliable, accurate and value driven protection, and communications capabilities in a single compact device. It is the flexible choice for any application requiring easy-touse, reliable protection.

- Reliable, accurate, solid-state motor protection
- Easy to select, install and maintain
- Compact size and flexible, intelligent design
- Global product offering—available with NEMA, IEC and DP power control

C440 Electronic Overload Relays for Direct Mount to Freedom Series Contactors

For Use with Freedom NEMA Contactor Size	For Use with Contactor ①	Overload Range (Amps)	Catalog Number
00	CN15AN3_B	0.33–1.65	C440A1A1P6SF00
		1–5	C440A1A005SF00
		4–20	C440A1A020SF00
0	CN15BN3_B	0.33–1.65	C440A1A1P6SF0
		1–5	C440A1A005SF0
		4–20	C440A1A020SF0
1	CN15DN3_B	0.33–1.65	C440A1A1P6SF1
		1–5	C440A1A005SF1
		4–20	C440A1A020SF1
2	CN15GN3_B	1–5	C440A1A005SF2
		4–20	C440A1A020SF2
		9–45	C440A1A045SF2
3	CN15KN3_	20–100	C440B1A100SF3
4	CN15NN3_	1–5 ②	C440A1A005SAX
5	CN15SN3_	1–5 ②	C440A1A005SAX

C440 Electronic Overload Relays with Ground Fault for Direct Mount to Freedom Series Contactors

For Use with Freedom NEMA Contactor Size	For Use with Contactor ①	Overload Range (Amps)	Catalog Number
00	CN15AN3_B	0.33–1.65	C440A2A1P6SF00
		1–5	C440A2A005SF00
		4–20	C440A2A020SF00
0	CN15BN3_B	0.33–1.65	C440A2A1P6SF0
		1–5	C440A2A005SF0
		4–20	C440A2A020SF0
1	CN15DN3_B	0.33–1.65	C440A2A1P6SF1
		1–5	C440A2A005SF1
		4–20	C440A2A020SF1
2	CN15GN3_B	1–5	C440A2A005SF2
		4–20	C440A2A020SF2
		9–45	C440A2A045SF2
3	CN15KN3_	20–100	C440B2A100SF3
4	CN15NN3_	1–5 ②	C440A2A005SAX
5	CN15SN3_	1–5 ②	C440A2A005SAX

C440 Electronic Overload Relays for Separate Mount

Overload Range	Frame Size	Overload Relay Catalog Number	With Ground Fault Catalog Number
0.33–1.65	45 mm	C440A1A1P6SAX	C440A2A1P6SAX
1–5		C440A1A005SAX	C440A2A005SAX
4–20		C440A1A020SAX	C440A2A020SAX
9–45		C440A1A045SAX	C440A2A045SAX
20–100	55 mm	C440B1A100SAX	C440B2A100SAX

Notes

① CN15 contactor listed is non-reversing with a 120 Vac coil. For more options, see **Tab 33** in the Controls Catalog.

② Starters available with 60–300A CTs and C440A1A005SAX overload relay.

EATON

Powering Business Worldwide

Type AN19/59 Freedom Series Starters

Type AN19/59 Freedom Series Starters with C440 Electronic Overload Relays

Non-Reversing and Reversing

NEMA Size	Continuous Ampere Rating	Service Limit Current Rating (Amps)	Maximum UL Horsepower		480V	600V	Three-Pole Non-Reversing ①② Catalog Number	Three-Pole Reversing ①② Catalog Number		
			Single-Phase 115V	Three-Phase 208V 240V						
00	9	11	1/3	1	1-1/2	1-1/2	2	2	AN19AN0_5E_	AN59AN0_5E_
0	18	21	1	2	3	3	5	5	AN19BN0_5E_	AN59BN0_5E_
1	27	32	2	3	7-1/2	7-1/2	10	10	AN19DN0_5E_	AN59DN0_5E_
2	45	52	3	7-1/2	10	15	25	25	AN19GN0_5E_	AN59GN0_5E_
3	90	104	—	—	25	30	50	50	AN19KN0_5E_	AN59KN0_5E_
4 ^③	135	156	—	—	40	50	100	100	AN19NN0_5E_	AN59NN0_5E_
5 ^③	270	311	—	—	75	100	200	200	AN19SN0_5E_	AN59SN0_5E_

Type AN19/59 Freedom Series Starters with C440 with Ground Fault Electronic Overload Relays

Non-Reversing and Reversing

NEMA Size	Continuous Ampere Rating	Service Limit Current Rating (Amps)	Maximum UL Horsepower		480V	600V	Three-Pole Non-Reversing ①② Catalog Number	Three-Pole Reversing ①② Catalog Number		
			Single-Phase 115V	Three-Phase 208V 240V						
00	9	11	1/3	1	1-1/2	1-1/2	2	2	AN19AN0_5G_	AN59AN0_5G_
0	18	21	1	2	3	3	5	5	AN19BN0_5G_	AN59BN0_5G_
1	27	32	2	3	7-1/2	7-1/2	10	10	AN19DN0_5G_	AN59DN0_5G_
2	45	52	3	7-1/2	10	15	25	25	AN19GN0_5G_	AN59GN0_5G_
3	90	104	—	—	25	30	50	50	AN19KN0_5G_	AN59KN0_5G_
4 ^③	135	156	—	—	40	50	100	100	AN19NN0_5G_	AN59NN0_5G_
5 ^③	270	311	—	—	75	100	200	200	AN19SN0_5G_	AN59SN0_5G_

Coil Suffix Codes

Suffix	Coil Volts and Hertz	Suffix	Coil Volts and Hertz
A	120/60 or 110/50	L	380–415/50
B	240/60 or 220/50	N	550/50
C	480/60 or 440/50	T	24/60, 24/50
D	600/60 or 550/50	U	24/50
E	208/60	V	32/50
H	277/60	W	48/60
J	208–240/60	Y	48/50
K	240/50		

C440 FLA Range (FVNR and FVR Starters Only)

NEMA Size	FLA Range			
00	1P6	0.33–1.65A	020	4.0–20A
	005	1.0–5.0A	—	—
0	1P6	0.33–1.65A	020	4.0–20A
	005	1.0–5.0A	—	—
1	1P6	0.33–1.65A	020	4.0–20A
	005	1.0–5.0A	045	9.0–45A
2	005	1.0–5.0A	045	9.0–45A
	020	4.0–20A	—	—
3	100	20–100A	—	—
4 ^③	—	—	300	60–300A
5 ^③	300	60–300A	—	—

Notes

- ① Underscore (_) indicates coils suffix required, see Coil Suffix table above.
- ② Underscore (_) indicates OLR designation required, see Coil Suffix table above.
- ③ Size 4 and 5 starters available with 60–300A panel mounted CTs. Please use (1–5A) overload relays with these CTs. Starters are not shipped as assembled units.

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