

# 2.1

## NEMA Contactors and Starters

### Freedom Series

#### Product Selection

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#### Type AN19/59 Freedom Series Starters

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

##### NEMA Starter



#### Non-Reversing and Reversing

NEMA Size	Continuous Ampere Rating	Service Limit Current Rating (Amps)	Maximum UL Horsepower						Three-Pole Non-Reversing <sup>①②</sup> Catalog Number	Three-Pole Reversing <sup>①②</sup> Catalog Number
			Single-Phase		Three-Phase		480 V	600 V		
			115 V	230 V	208 V	240 V				
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	135	156	—	—	40	50	100	100	AN19NN0_5E_	AN59NN0_5E_
5 <sup>③</sup>	270	311	—	—	75	100	200	200	AN19SN0_5E_	AN59SN0_5E_

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

##### NEMA Starter with Ground Fault



#### Non-Reversing and Reversing

NEMA Size	Continuous Ampere Rating	Service Limit Current Rating (Amps)	Maximum UL Horsepower						Three-Pole Non-Reversing <sup>①②</sup> Catalog Number	Three-Pole Reversing <sup>①②</sup> Catalog Number
			Single-Phase		Three-Phase		480 V	600 V		
			115 V	230 V	208 V	240 V				
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	135	156	—	—	40	50	100	100	AN19NN0_5G_	AN59NN0_5G_
5 <sup>③</sup>	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	OLR Code	FLA Range	OLR Code	FLA Rating
00	1P6	0.33–1.65 A	020	4.0–20 A
	005	1.0–5.0 A	—	—
0	1P6	0.33–1.65 A	020	4.0–20 A
	005	1.0–5.0 A	—	—
1	1P6	0.33–1.65 A	020	4.0–20 A
	005	1.0–5.0 A	045	9.0–45 A
2	005	1.0–5.0 A	045	9.0–45 A
	020	4.0–20 A	—	—
3	100	20–100 A	—	—
4	140	28–140 A	—	—
5 <sup>③</sup>	300	60–300 A	—	—

#### Notes

- ① Underscore ( \_ ) indicates coils suffix required, see Coil Suffix table above.
- ② Underscore ( \_ ) indicates OLR designation required, see C440 FLA Range table above.
- ③ NEMA Size 5 starter available with 60–300 A panel mounted CTs. Starter shipped as an assembled unit with 1–5 A C440 overload relay (C440A1A005SELAX or C440A2A005SELAX).

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## NEMA Contactors and Starters

### Freedom Series

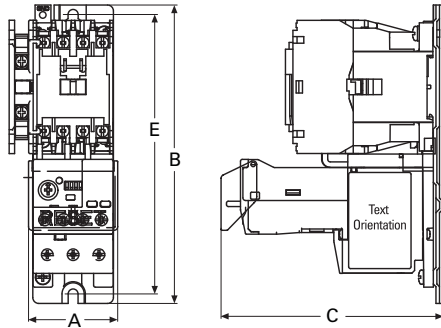
#### Dimensions

Approximate Dimensions in Inches (mm)

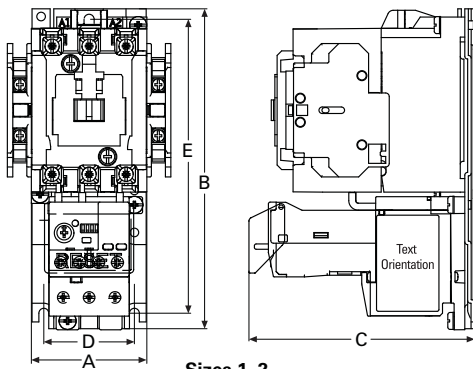
### 2

#### NEMA Starters

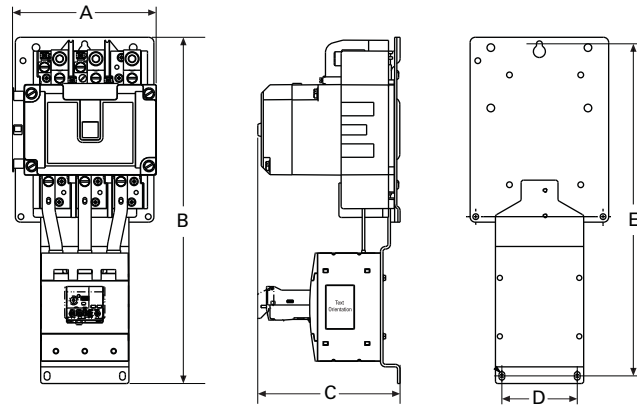
#### Full Voltage Non-Reversing Starters



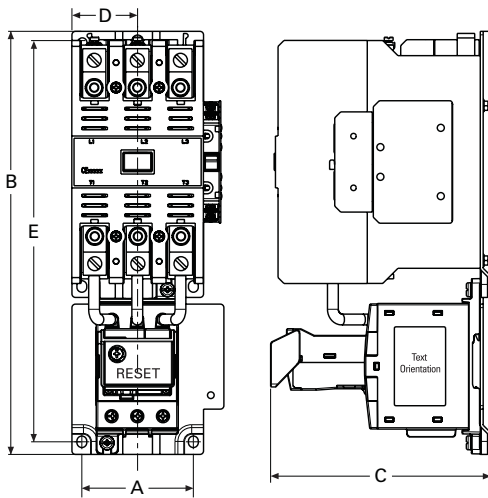
Sizes 00, 0



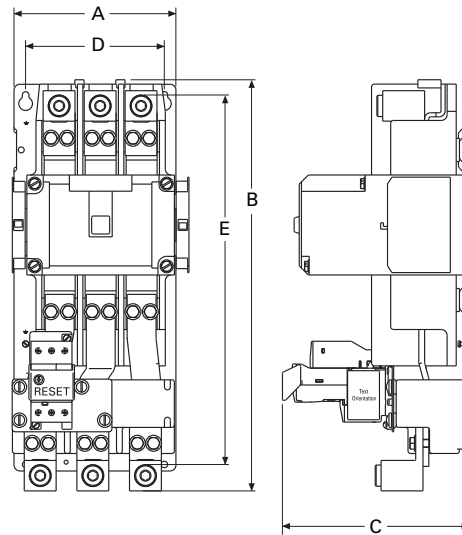
Sizes 1, 2



Size 4



Size 3



Size 5

NEMA Size	A	B	C	D	E
00, 0	1.97 (50.0)	6.60 (167.6)	4.90 (124.5)	—	6.18 (157.0)
1, 2	2.60 (65.0)	7.10 (180.0)	4.98 (126.5)	2.00 (50.8)	6.50 (165.0)
3	3.00 (76.2)	11.40 (289.6)	5.92 (150.3)	1.77 (44.9)	10.81 (274.6)
4	7.10 (179.0)	17.00 (432.0)	7.00 (177.0)	3.70 (94.0)	16.30 (415.0)
5	7.00 (177.8)	17.81 (452.3)	8.08 (205.2)	6.00 (152.4)	16.01 (406.6)