

2.1

NEMA Contactors and Starters

Freedom Series

2

Transient Suppressor Kits

NEMA Sizes 00–2, IEC Sizes A–K

These kits limit high voltage transients produced in the control circuit when power is removed from the contactor or starter coil. There are three separate suppressors for use on 24–120V, 208–240V or 277–480V coils respectively.

These devices mount directly to the coil terminals of Freedom Series contactors or starters NEMA Sizes 00–2, IEC Sizes A–K and lighting contactors 10–60A. Reversing devices will require two.

C320TS2



NEMA Sizes 00–2, IEC Sizes A–K

Description	Coil Voltage ①	Catalog Number
Transient suppressor	24/120V	C320TS1
	208/240V	C320TS2
	277/480V	C320TS3

NEMA Sizes 3–5, IEC Sizes L–S

This device mounts on top of any side mounted auxiliary contact on Freedom Series NEMA Sizes 3–5, IEC Sizes L–S and lighting contactors 100–300A. It connects across coil terminals on any 120V contactor or starter magnet

coil (reversing starters or contactors require 2).

Limits high voltage transients produced in the circuit when power is removed from the coil.

C320AS1



NEMA Sizes 3–5, IEC Sizes L–S

Description	Coil Voltage	Catalog Number
Transient suppressor	120V	C320AS1

Add-On Power Pole Kit ②

NEMA Sizes 00–0, IEC Sizes A–F

This device mounts on the side of Freedom NEMA Size 00–0 and IEC Sizes A–F contactors. One unit can be mounted on each side and

carries UL, cUL and IEC ratings. The device is rated for resistive, inductive and lighting applications.

NEMA Sizes 00–0, IEC Sizes A–F

UL Ampere Rating

Inductive 600V	Resistive 600V	Horsepower Single-Phase		Locked Rotor 240V	Lighting Ballast Tungsten 480V	IEC 947 Ampere Rating		AC-5a AC-5b 480V	1NO Power Pole Catalog Number
		115V	230V			AC-1 600V	AC-3 600V		
15	20	1/2	2	96	20	20	12	18	C320PPD10

Notes

- ① Suppressor is compatible with coil voltages/ranges as shown, both 50 and 60 Hz.
- ② Power pole kits sold for replacement purposes only. For new applications, order the correct four-pole and five-pole contactor catalog numbers.

Adhesive Dust Cover

NEMA Sizes 00–2, IEC Sizes A–K

These adhesive stickers come 25 to a package and provide extra protection from contaminants when applied to the sides of Freedom NEMA Sizes 00–2 and IEC

Sizes A–K. Adhesive covers are easily applied to side opening where auxiliaries are not installed and provide extra protection from metal filings and other debris.

NEMA Sizes 00–2, IEC Sizes A–K

Description	Catalog Number
25 to a package	C320DSTCVR

6.1

Lighting Contactors

Open Control

6

Accessories

Transient Suppressor Kits

10–60A Contactors

These kits limit high voltage transients produced in the control circuit when power is removed from the contactor or starter coil. There are three separate suppressors for use on 24–120V, 240V or 480V coils respectively.

These devices mount directly to the coil terminals of lighting contactors 10–60A.

C320TS2



Kits for 10–60A

Description	Coil Voltage	Catalog Number
Transient suppressor	24–120V	C320TS1
	240V	C320TS2
	480V	C320TS3

100–300A Contactors

This device mounts on top of any side mounted auxiliary contact on lighting contactors 100–300A. It connects across coil terminals on any 120V contactor magnet coil.

Limits high voltage transients produced in the circuit when power is removed from the coil.

C320AS1



Kits for 100–300A

Description	Coil Voltage	Catalog Number
Transient suppressor	120V	C320AS1

Auxiliary Contacts

CN35 Lighting Contactors include a 1NO maintaining auxiliary contact mounted on right hand side (on 10A, two- and three-pole devices, auxiliary contact occupies 4th power pole position—no increase in width). The 10–60A devices will accept additional auxiliary contacts on the top and/or sides.

Auxiliary contact blocks are designed for snap-on installation—fast, easy installation (no tools required up to 60A).

All auxiliary contacts are of the bifurcated design with parallel circuit paths. This redundant path provides very high reliability. Auxiliary contacts can be snapped on the side (up to two circuits—per auxiliary contact) and on the top (up to four circuits). Auxiliary contacts for larger contactors, 100–400A sizes, will accept side mounted auxiliaries only and easily attach to the side of the contactor with two screws.

Auxiliary Contacts—10–60A Contactors

	Description	Contact Configuration Code ①	Catalog Number
Side Mounted	Side Mounted		
	1NO	10	C320KGS1
	1NC	01	C320KGS2
	1NO-1NC	11	C320KGS3
	2NO	20	C320KGS4
	2NC	02	C320KGS5
Top Mounted	Top Mounted ②		
	1NO	10	C320KGT1
	1NC	01	C320KGT2
	1NO-1NC	11	C320KGT3
	2NO	20	C320KGT4
	2NC	02	C320KGT5
	3NO	30	C320KGT9
	2NO-1NC	21	C320KGT10
	1NO-2NC	12	C320KGT11
	3NC	03	C320KGT12
	4NO	40	C320KGT13
	3NO-1NC	31	C320KGT14
2NO-2NC	22	C320KGT15	
1NO-3NC	13	C320KGT16	
4NC	04	C320KGT17	

Notes

- ① For reference only—not part of catalog number. See **Page V5-T6-19**.
- ② Cannot be added to contactors or starters mounted in Box 1 (NEMA Type 1).