34

Freedom **Accessories**

IEC Contactors & Starters

Auxiliary Contacts

NEMA Sizes 00 - 2 - IEC Sizes A - K

The auxiliary contacts listed below are designed for installation on Freedom Series starters and contactors. Snap-on design facilitates quick, easy installation.

These bifurcated design contact blocks, featuring silver cadmium alloy contacts, are well suited for use in very low energy (logic level) circuits.





Side Mounted

Top Mounted

C320KGT7

C320KGT8

C320KGT9

C320KGT10

C320KGT11

C320KGT12

C320KGT13

C320KGT14

C320KGT15

C320KGT16

C320KGT17

C320KGT18

C320KGT19

C320KGT20

C320KGT15L

Table 34-397. Selection Product

Description	Contact Configuration Code ①	Catalog Number	Price U.S. \$
Side Mounted	·		
1NO	10	C320KGS1	
1NO (Logic Level)	10	C320KGS1L	
1NC	01	C320KGS2	
1NO-1NC	11	C320KGS3	
1NO-1NC (Logic Level)	11	C320KGS3L	
2NO	20	C320KGS4	
2NO (Logic Level)	20	C320KGS4L	
2NC	02	C320KGS5	
1NO-1NCI	N/A	C320KGS6	
1NO (EC)-1NC (LO)	N/A	C320KGS7	
1NCI	N/A	C320KGS8	
Top Mounted			
1NO	10	C320KGT1	
1NC	01	C320KGT2	
1NO-1NC	11	C320KGT3	
1NO-1NC (Logic Level)	11	C320KGT3L	
2NO	20	C320KGT4	
2NC	02	C320KGT5	
1NO-1NCI	N/A	C320KGT6	

N/A

N/A

30

21

12

03

40

31

22

22

13

04

N/A

N/A

N/A

1NO-1NC-1NO (EC)-1NC (LO) N/A C320KGT21 Note: NCI = Normally Closed early opening designed for use in reversing applications. EC = Early Closing. LO = Late Opening. ① For reference only — not part of Catalog Number. See above right.

Contact Configuration Code

This two-digit code is found on the auxiliary contact to assist in identifying the specific contact configuration. The first digit indicates the quantity of NO contacts and the second indicates the quantity of NC contacts.

NEMA Sizes 3 - 8 — IEC Sizes L - Z

Table 34-398. Product Selection

	Circuit	Contact	Catalog Number	Price
		Configuration		U.S. \$
		Code 2		
-				

Base Auxiliary Contacts — NEMA Sizes 3 – 5, IEC Sizes L – S

			NEMA Sizes 4 – 5 IEC Sizes P – S
NO	10	C320KGS31	C320KGS41
NO-NC	11	C320KGS32	C320KGS42

Auxiliary Contacts — NEMA Sizes 3 – 5, IEC Sizes L – S

		Catalog Number	
NO	10	C320KGS20	
NC	01	C320KGS21	
NO-NC 3	11	C320KGS22	

Auxiliary Contacts — NEMA Sizes 6 – 8, IEC Sizes T – Z

		Size	Catalog Number
NO-NC	11	NEMA 8, IEC Z	C320KA5
2NO-2NC	22	NEMA 6 – 7	C320KA6
2NO-2NC	22	IECT-X	C320KA8

- ² For reference only not part of Catalog Number. See above.
- 3 NO-NC occupies two positions L2 and L3, or R2 and R3. See next







Auxiliary Contact Cat. No. C320KGS22

Discount Symbol 1CD1C

1NO (EC)-1NC (LO)

2NO-2NC (Logic Level)

2NO-1NO (EC)-1NC (LO)

1NCI

3NO

3NC

4NO

4NC

2NO-1NC

1NO-2NC

3NO-1NC

2NO-2NC

1NO-3NC

3NO-1NCI

2NO-1NCI-1NC

Auxiliary Contact Location

NEMA Sizes 00 - 2, IEC Sizes A - K

The sketches below illustrate the maximum number of auxiliary contacts that can be assembled to a contactor or starter and their locations.

Table 34-399. Auxiliary Contacts

Catalog	Size	Poles	Available Mounting	Positions (1)(2)
Number	0.20	1 0.00	Open Type	Enclosed
AE16	A – K	3	T1, L1	L1
AN16	00 0 – 2	3	T1, L1, R1 T1, L1	L1 L1
AE56	A – K	3	L1, R1	L1, R1
AN56	00 – 2	3	T1, T2	_
CE15	A - C D - K G - J G - J	2 – 4 3 4 5	T1, L1, R1 T1, L1 T1, R1 T1	L1, R1 L1 —
CN15	00 0 - 2 1, 2 1, 2	2 – 4 2 – 3 4 5	T1, L1, R1 T1, L1 T1, L1 T1, L1	L1 L1 —
CN35	10A 20 – 60A 60A 60A	2 – 4 2 – 3 4 5	T1, L1, R1 T1, L1 T1, L1 T1, L1	L1 L1 —
CE55	A – K	3	L1, R1	L1, R1
CN55	00 – 2	3	T1, T2	_

- Available positions on contactors or starters other than what is factory installed.
- When a pneumatic timer is mounted on contactor, only side mounted auxiliary contact positions are available. The solid-state timer, when added, takes up side mounted auxiliary contact position.

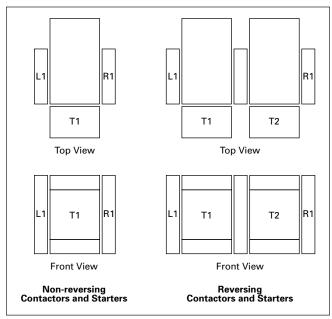


Figure 34-171. Auxiliary Contact Location

NEMA Sizes 3 – 8, IEC Sizes L – Z

The sketches below illustrate the maximum number of auxiliary contacts that can be assembled to a contactor and their locations.

Note: A Base Auxiliary Contact must be added in position R1 before additional auxiliary contacts can be mounted on NEMA Size 3 and IEC Sizes L-N, or in L1 on NEMA Sizes 4-5 and IEC Sizes P-S.

Table 34-400. Auxiliary Contacts

Size	Available Mounting Positions ³
NEMA Size 3, IEC Sizes L – N	R2, R3, L1, L2, L3
NEMA Sizes 4 – 5, IEC Sizes P – S	L2, L3, R1, R2, R3
NEMA Sizes 6 – 7, IEC Sizes T – X	R1
NEMA Size 8, IEC Size Z	L2, R2

③ Available positions on contactors or starters other than what is factory installed.

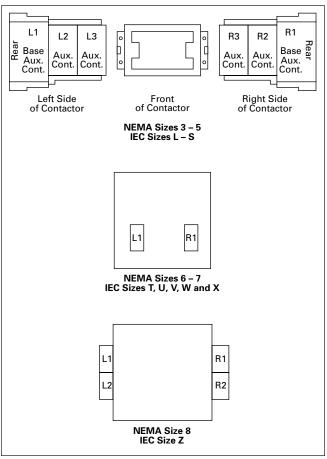


Figure 34-172. Auxiliary Contact Location

Accessories

Freedom

DC Magnet Coils

When Ordering Specify Conversion Kit for Field Assembly

■ Catalog Number

Factory Installed DC Coil

■ For factory installed DC magnet coil on AC contactors or non-combination starters (open type only), substitute the Code Suffix from table below for the magnet coil identifier in the device Catalog Number.

EXAMPLE: For Size 0 AC contactor with a 24V DC coil, change CN15BN3AC to CN15BN3T1C.

Application

- Connect for separate control
- Not for use with cover control switch operators
- Use twin break, heavy-duty pilot devices
- Designed for +10%, -20% rated voltage, continuous duty operation

Non-reversing Kit Consists of:

- 1 Encapsulated DC magnet coil
- 1 NCI or NO/NCI side mounted auxiliary contact

Note: These kits are supplied with a NO/NCI side mounted auxiliary contact in place of the NCI contact.

IEC Contactors & Starters

- 2 Blue colored connection wires
- 1 Instruction publication

Operation

These DC coil kits have separate pick-up and seal windings. A **special** (side mounted) early-break NCI auxiliary contact is used to either disconnect the pick-up winding or insert the seal winding in series with the pick-up winding, depending on the frame size of the contactor. DC coil kits come in two styles, a suffix 1 and a suffix 4. The 1 suffix contains only the **special** (side mounted) early break NCI auxiliary contact. The 4 suffix contains a NO contact in the same package as the **special** (side mounted) early-break NCI auxiliary contact.

Note: For NEMA Sizes 00 and 0 and IEC Sizes A – F, contactors may utilize either suffix 1 or 4 DC coil kits; starters may utilize suffix 4 DC coil kits only. For NEMA Sizes 1 and 2 and IEC Sizes G – K, both contactors and starters may utilize a suffix 4 DC coil kit only.

On the above sizes only, when the **special** auxiliary package is mounted on the side of a contactor or starter, **no** standard auxiliary contact may be mounted on the same side.

Note: For NEMA Sizes 3 – 5 and IEC Sizes L – S, the special coil NCI clearing contact is an add-on auxiliary (must mount on a base mount auxiliary contact; normally a 1NO). This arrangement will normally account for two of the three contact positions on the side of each contactor or starter.

Table 34-401. Product Selection DC Magnet Coils

Contactor or		Conve	rsion Data				Complete Conversion Kit		Factory	Factory Installed	
Starter Size	ze		Magnet Coil			NCI	7				
NEMA IEC			Coil Number	Amps P.U./Seal	Watts P.U./Seal	Interlock Number	Catalog Number	Price U.S \$	Ship Wt. Lbs. (kg)	Code Suffix	Adder U.S \$
Non-reversing —	Kit include	s NCI Si	de Mounted Aux	ciliary Contact		•	•	•			
00 and 0 CN35 – A, B, D D15 Relays	A – F	12 24 48 120	9-2988-11 9-2988-12 9-2988-13 9-2988-14	6.4/.28 3.2/.14 1.6/.07 .64/.028	76.8/3.36 76.8/3.36 76.8/3.36 76.8/3.36	C320KGD1 C320KGD1 C320KGD1 C320KGD1	C335KD3R1 C335KD3T1 C335KD3W1 C335KD3A1		1.0 (.5)	R1 T1 W1 A1	
00 and 0 CN35 – A, B, D D15 Relays	A – F	12 24 48 120	9-2988-11 9-2988-12 9-2988-13 9-2988-14	6.4/.28 3.2/.14 1.6/.07 .64/.028	76.8/3.36 76.8/3.36 76.8/3.36 76.8/3.36	C320KGD2 ① C320KGD2 ① C320KGD2 ① C320KGD2 ①	C335KD3R4 C335KD3T4 C335KD3W4 C335KD3A4		1.0 (.5)	R4 T4 W4 A4	
1 and 2 CN35 – G	G – K	12 24 48 120	9-2990-1 9-2990-2 9-2990-3 9-2990-4	15.4/.42 7.7/.21 3.9/.11 1.5/.041	185/4.98 185/4.96 185/5.04 185/4.87	C320KGD5 C320KGD5 C320KGD5 C320KGD5	C335KD4R4 C335KD4T4 C335KD4W4 C335KD4A4		1.0 (.5)	R4 T4 W4 A4	
3 CN35 – K	L – N	12 24 48 120	9-3002-1 9-3002-2 9-3002-3 9-3002-4	24/.40 12/.20 6.1/.097 2.5/.038	293/4.84 288/4.75 295/4.67 298/4.57	C320KGD3 C320KGD3 C320KGD3 C320KGD3	C335KD5R1 C335KD5T1 C335KD5W1 C335KD5A1		2.0 (.9)	R1 T1 W1 A1	
4 and 5 CN35 – N, S	P – S	24 48 120 240	9-2026-4 9-2026-3 9-2026-2 9-2026-1	18/.22 9/.11 3.3/.05 1.7/.02	400/5.3 400/5.2 450/5.4 440/4.9	C320KGD3 C320KGD3 C320KGD3 C320KGD3	C335KA3T1 C335KA3W1 C335KA3A1 C335KA3B1		2.5 (1.1)	T1B W1B A1B B1B	
Reversing	•	•	•	•	•	•	•	•		•	•
00 and 0 CN35 – A, B, D D15 Relays	A – F	12 24 48 120	9-2988-1 ^⑤ 9-2988-2 ^⑤ 9-2988-3 ^⑤ 9-2988-4 ^⑤	6.4/.28 3.2/.14 1.6/.07 .64/.028	76.8/3.36 76.8/3.36 76.8/3.36 76.8/3.36	C320KGD1 ^⑤ C320KGD1 ^⑤ C320KGD1 ^⑤ C320KGD1 ^⑤	C335KD3R1 26 C335KD3T1 26 C335KD3W1 26 C335KD3A1 26		1.0 (0.9)	R1 3 T1 3 W1 3 A1 3	
1 and 2 CN35 – G	G – K	12 24 48 120	9-2990-1 ^⑤ 9-2990-2 ^⑤ 9-2990-3 ^⑤ 9-2990-4 ^⑤	15.4/.42 7.7/.21 3.9/.11 1.5/.041	185/4.98 185/4.96 185/5.04 185/4.87	C320KGD3 ® C320KGD3 ® C320KGD3 ® C320KGD3 ®	•			R1 3 T1 3 W1 3 A1 3	

① These kits are supplied with a NO/NCI side mounted auxiliary contact in place of the NCI contact.

② Kit does not include mechanical interlock or crossover wiring. Two NO/NCI top mounted auxiliary contacts are supplied for electrical interlocking.

⑤ Factory installed DC coils on NEMA contactors and starters include a NO/NC top mounted auxiliary contact on each contactor for electrical interlocking. On IEC contactors and starters, a NC top mounted auxiliary contact is supplied on each contactor for electrical interlocking.

⁴ Available factory assembled only.

⁵ Two required per reversing assembly.

IEC Contactors & Starters Freedom

Accessories

Remote Reset Module (32A Overload Relay)

The C316RR remote reset module for the C316F, C316S and C316U overload relays allows remote resetting of tripped (32A) overload relays by means of an electrical solenoid attachment which mounts on the side of the overload relay.

Table 34-402. Product Selection

Remote Reset Module	Catalog	Price
Operating Voltage	Number	U.S. \$
24V 50/60 Hz 110V 50/60 Hz	C316RR1U C316RR1A	

Metal Mounting Plates



Table 34-403. For Use on IEC Style Contactors, **Starters and Overload Relays**

otartors and overroud nergys					
Application	Catalog Number	Price U.S. \$			
Contactors IEC Sizes A - F IEC Sizes G - K	C321MP1 C321MP2				
Non-reversing Starters IEC Sizes A – F IEC Sizes G – K	C321MP3 C321MP4				
Overload Relays ① 32A 75A	C321MP5 C321MP6				
Reversing Starters IEC Sizes A - F IEC Sizes G - K IEC Sizes L - N	C321MP7 C321MP12 C321MP11				
Reversing Contactors IEC Sizes A - F IEC Sizes G - K IEC Sizes L - N	C321MP8 C321MP9 C321MP13				

① For use with DIN rail and base mounting adapters listed on Page 34-309.

Table 34-404. Metal Mounting Plates — Approximate Dimensions and Shipping Weights

Catalog	Dimensions in	Inches (mm)		Ship
Number	Wide	High	Mounting	Wt. Lbs. (kg)
C321MP1	2.00 (50.8)	3.88 (98.6)	1.50 x 3.38 (38.1 x 85.9)	.2 (.1)
C321MP2	2.56 (65.0)	5.05 (128.3)	2.00 x 4.50 (50.8 x 114.3)	.4 (.2)
C321MP3	1.80 (45.7)	6.60 (167.6)	6.07 (154.2) ©	.7 (.3)
C321MP4	2.56 (65.0)	8.08 (205.2)	2.00 x 7.63 (50.8 x 193.8)	.6 (.3)
C321MP5	1.77 (45.0)	4.63 (117.6)	4.27 (108.5) ©	.3 (.1)
C321MP6	2.52 (64.0)	5.14 (130.6)	2.00 x 4.59 (50.8 x 116.6)	.4 (.2)
C321MP7	4.20 (106.7)	7.38 (187.5)	3.50 x 6.87 (88.9 x 174.5)	.8 (.4)
C321MP8	4.20 (106.7)	4.35 (110.5)	3.50 x 3.86 (88.9 x 98.0)	.5 (.2)
C321MP9	5.66 (143.8)	5.05 (128.3)	5.25 x 3.63 (133.4 x 92.2)	.8 (.4)
C321MP11	8.70 (221.0)	11.35 (288.3)	7.00 x 10.81 (177.8 x 274.6) ③	1.2 (.5)
C321MP12	5.71 (145.0)	8.08 (205.2)	5.25 x 6.75 (133.4 x 171.5) ③	.9 (.4)
C321MP13	8.70 (221.0)	7.17 (182.1)	7.00 x 6.63 (177.8 x 168.4) ③	.9 (.4)

^{2 2-}hole mounting.

3-Pole Top Mounted Fuse Block Kit IEC Sizes A - K, NEMA Sizes 00 - 2



Field mount to Freedom Series starters and contactors. Designed to save space and reduce installation costs. They provide short circuit protection for branch circuits.

Table 34-405. Selection Product

Fuse Type			Catalog Number	Price U.S. \$
Class H Class R	=	30A 250V 30A 250V	C350KH21 C350KR21	
Class G Class G Class G Class G	_ _ _ _	15A 300V 20A 300V 30A 300V 60A 300V	C350KG37 C350KG38 C350KG31 C350KG32	
Class T Class T	=	30A 300V 60A 300V	C350KT31 C350KT32	
Class J Class J Type M Class CC	_ _ _	30A 600V 60A 600V 30A 600V [®] 30A 600V	C350KJ61 C350KJ62 C350KM61 C350KC63	
Class T Class T	_	30A 600V 60A 600V	C350KT61 C350KT62	

Type M fuse block not approved for branch circuit protection.

Discount Symbol (Remote Reset)...... 1CD7 Discount Symbol (Mounting Plates) 1CD1C

^{3 3-}hole mounting.



Freedom **Accessories**

Mechanical Interlock and Reversing Kits

Mechanical interlocks and reversing kits are designed for field assembly of reversing contactors or starters from Freedom Series components. The Reversing Kits include a Mechanical Interlock, stabilizer bar and a pre-cut, trimmed and formed wire set. Auxiliary contacts, if required, must be ordered separately. See Page 34-313.







C321KM60B

Part No. 23-7165

Wire Set

Table 34-406. Reversing Kits (Horizontal Contactor Mounting Only)

Application		Catalog	Price
NEMA Size	IEC Size	Number	U.S. \$
00 0 1 2 3	A - C D - F 	C321KM60K14B C321KM60K13B C321KM60K15B C321KM60K16B C321KM60K17 ©	
	L and M N — — P – S	C321KM60K21 © C321KM60K18 © C321KM60K19 © C321KM60K20 © C321KM60K44 ©)

¹ Kit includes (2) NC auxiliary contacts.

Table 34-407. Mechanical Interlock Only 23

Application			Catalog	Price
NEMA Size	IEC Size	Contactor Mounting	Number	U.S. \$
00 – 2	A – K	Horizontal	C321KM60B	
3	L-N	Horizontal	C321KM30	
3 to 4	N to P	Horizontal	C321KM43	
4	P-S	Horizontal	C321KM40	
4 to 5	_	Horizontal	C321KM45	
4 to 6	S to T/U	Horizontal	C321KM80	
5	_	Horizontal	C321KM50	
5 to 6	_	Horizontal	C321KM56	
6	T and U	Horizontal	C321KM70	
6 to 7	T/U to V – X	Horizontal	C321KM90	
7	V, W and X	Horizontal	C321KM34	
4 or 5 to 5	P – S to 5	Vertical	C321KM55	
5 to 6	_	Vertical	C321KM65	
6	T and U	Vertical	C321KM66	
6 to 7	T/U to V – X	Vertical	C321KM67	

² Without cross-wiring.

Solid-State Timers

IEC Contactors & Starters

Solid-State ON DELAY Timer — Side Mounted on Freedom Series NEMA 00 - 2, IEC A - K and C25D, C25E and C25F Frame



This timer is designed to be wired in SERIES with the load (typically a coil). When the START button is pushed (power applied to timer), the ON DELAY timing function starts. At the completion of the set timing period, timer and series wired load will both be energized.

Table 34-408, Product Selection — Mounted Timer

Timing Range	Catalog Number 456	Price U.S. \$
.1 – 1.0 Seconds 1 – 30 Seconds 30 – 300 Seconds 5 – 30 Minutes	C320TDN1_ C320TDN30_ C320TDN300_ C320TDN2000_	

- 4 Add operating voltage Suffix to Catalog Number. A = 120V, B = 240V, E = 208V
- ^⑤ Rated .5 ampere pilot duty not to be used on larger contactors.
- ® Terminal connections are quick connects only. Two per side.

Shorting Bar Kits

These kits provide phase-to-phase power connections of contactors for field assembly. The kits include bus connections and mounting hardware. The shorting bars connect all three phases of a single contactor.

Table 34-409. Product Selection

Description	Catalog Number	Price U.S. \$
NEMA Size 3, IEC Sizes L – N NEMA Size 4, IEC Sizes P – S NEMA Size 5 NEMA Size 6, IEC Sizes T and U	C321SB18 C321SB19 C321SB21 C321SB22	

Pneumatic Timers — Top Mounted



Attachment mounts on top of any NEMA Size 00 – 2 or IEC Size A – K Freedom Series starter or contactor (top mounted auxiliary contacts can not be installed on device when timer is used). Timer unit has 1NO-1NC isolated timed

contacts — circuits in each pole must be the same polarity. Units are convertible from OFF to ON DELAY or vice-versa.

Table 34-410. Maximum Ampere Ratings

Description	Volts AC			
	120	240	480	600
Make Break	30 3	15 1.5	7.5 .75	6 .6

Table 34-411. Product Selection

Timing Range	Catalog Number	Price U.S. \$
.1 to 30 Seconds 10 to 180 Seconds	C320TP1 C320TP2	

Discount Symbol 1CD1C

³ For use with latest series product.

Accessories

Locking Cover for Overload Relay — C306 Only

Snap-on transparent or opaque plastic panel for covering access port to the overload relay trip setting dial — helps prevent accidental or unauthorized changes to trip and reset setting.

Table 34-412. Product Selection

	Description	Min. Ordering Oty. (Std. Pkg.)	Catalog Number	Price U.S. \$
641.	Clear cover, no accessibility	50	C320PC3	
V	Gray cover, no accessibility, with Auto only nib	50	C320PC4	
	Gray cover, no accessibility, with Manual only nib	50	C320PC5	
	Gray cover with FLA dial accessibility, A, B, C, D positions an Auto only nib	50	C320PC6	
110	Gray cover with FLA dial accessibility, A, B, C, D positions and Manual only nib	50	C320PC7	

Control Circuit Fuse Block



These panel mounted fuse holders, designed for control circuit protection or other similar low current requirements, have extractor type fuse

caps. The Class CC rejection type fuses (KTK-R) used in these holders are intended for use with equipment designated as being suitable for use on systems having high available fault currents. If branch circuit protective device is 45A or greater, C320FBR fuse kit may be required for control circuit protection per NEC 430-72.

Table 34-413. Product Selection

Туре	Max.	Catalog	Price
	Amperes	Number	U.S. \$
Fuse Holder	15	C320FB ①	
Only	30	C320FBR ②	

A fuse is not supplied, but holder will accept a Bussman Type KTK or KTK-R (13/32" x 1-1/2") fuse, 600V maximum.

DIN Rail Mounting Channel — 35 mm

Designed for DIN rail mounting of IEC style contactors and starters.



DIN Rail

Table 34-414. Product Selection

Description	Catalog Number	Price U.S. \$
1 Meter Length	MC382MA1	

Finger Protection Shields

Snap-on shields for both contactors and starters provide IEC Type IP20 Finger Protection. Prevents accidental contact with line/load terminals.

Table 34-415. Product Selection

Application	Catalog Number	Price U.S. \$
NEMA Size 00, IEC Sizes A – C NEMA Size 0, IEC Sizes D – F	C320LS1 C320LS2	
NEMA Sizes 1 – 2, IEC Sizes G – K Contactors Reversing Contactors	C320LS3 C320LS4	
NEMA Size 1 Starters Reversing Starters	C320LS5 C320LS6	
NEMA Size 2, IEC Sizes G – K Starters Reversing Starters	C320LS7 C320LS8	

Adapter to DIN Rail Mount

NEMA 1 - 2 and IEC G - K Contactors

Designed to allow DIN rail mounting of NEMA 1 – 2 and IEC G – K contactors. Includes all hardware required to convert contactors from panel mounting to 35 mm DIN rail mounting.

Table 34-416. Product Selection

Catalog	Price
Number	U.S. \$
C320DN65	

Transient Suppressor Kits

NEMA Sizes 00 - 2, IEC Sizes A - K



Cat. No. C320TS2

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.

Table 34-417. Product Selection

Description	Coil Voltage	Catalog	Price
	50/60 Hz 3	Number	U.S. \$
Transient Suppressor	24 – 120V 208 – 240V 277 – 480V	C320TS1 C320TS2 C320TS3	

③ Suppressor is compatible with coil voltages/ ranges as shown, 50 and 60 Hz.

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 con-

tactors 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.

Table 34-418. Product Selection

Description	Coil Voltage		Price U.S. \$
Transient Suppressor	120V	C320AS1	

Discount Symbol 1CD1C

② Includes a 5A, 600V KTK-R fuse.

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Accessories

Freedom

DC/AC Interface Module



Cat. No. C320DC

The Catalog Number C320DC Interface Module is an optically isolated solid-state switch which provides a means of operating AC coils with a 5 - 48V DC control signal. It acts as a space saving interposing relay which

can switch a specified 50/60 Hz AC source to the contactor or starter coil.

The module may be directly attached to the coil terminals of any Freedom Series contactor or starter — NEMA Sizes 00 - 3, IEC Sizes A - N and lighting contactors 10 – 100A. It also has provisions for DIN rail mounting.

The module will operate coils within the voltage ranges shown below.

Design Characteristics

- DC Input: 5 48V DC ±10% at mA nominal
- AC Operating Voltage: 240V AC max. (360 VA) ±10% 50/60 Hz
- DC Operating Voltage: 30V DC max. (5A)
- AC Current Rating:
 - □ 10A make (inrush)
 - □ 1A break (sealed)

Table 34-419. Controller Coil Voltage Ranges

Controller Catalog Number Prefix	Controller Size or Rating	Coil Range Volts AC		
AE16, AE17, AE56, AE57, CE15, CE55	A – F G – K L – N	24 – 240 48 – 240 110 – 240		
AN16, AN56, CN15, CN55	00 – 0 1 – 2 3	24 _ 240 48 - 240 110 - 240		
CN35	10 – 30A 60A 100A	24 – 240 48 – 240 110 – 240		

Table 34-420. Product Selection

Coil Voltage	Catalog Number	Price U.S. \$
6V DC 9V DC	C320DC2V6 C320DC2V9	
12V DC 24V DC 48V DC	C320DC2V12 C320DC2V24 C320DC2V48	

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

IEC Contactors & Starters

and provide extra protection from metal filings and other debris.

Table 34-421. Product Selection

Description	Catalog Number	Price U.S. \$
25 to a package	C320DSTCVR	

Add-On Power Pole Kit

NEMA Sizes 00 - 2. IEC A - K

This device mounts on the side of Freedom NEMA Size 00 - 2 and IEC Size A - K 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.

Table 34-422. Product Selection — Add-On Power Pole Kit

UL Ampere Rating					IEC 947 Ampere Rating			1NO	Price	
Inductive 600V	Resistive 600V	hp 1-Phase 115V 230V		Locked Rotor 240V	Lighting Ballast Tungsten 480V		AC-3 600V	AC-5a AC-5b 480V	Power Pole Catalog Number	U.S. \$
15	20	1/2	2	96	20	20	12	18	C320PPD10	

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