

2.1

NEMA Contactors and Starters

Freedom Series

2

Solid-State Timers

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.

Solid-State Timer



Mounted Timer Product Selection

Timing Range	Catalog Number ^{①②③}
1–30 seconds	C320TDN30_
30–300 seconds	C320TDN300_

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.

Shorting Bar Kits

Description	Catalog Number
NEMA Size 3, IEC Sizes L–N	C321SB18
NEMA Size 4, IEC Sizes A–S	C321SB19
NEMA Size 6, IEC Sizes T and U	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 cannot 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.

Pneumatic Timers



Pneumatic Timers

Timing Range	Catalog Number
0.1 to 30 seconds	C320TP1
10 to 180 seconds	C320TP2

Maximum Ampere Ratings

Description	Vac			
	120	240	480	600
Make	30	15	7.5	6
Break	3	1.5	0.75	0.6

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.

Locking Cover for Overlay Relay



Locking Cover for Overlay Relay

Description	Min. Ordering Quantity (Std. Pkg.)	Catalog Number
Clear cover, no accessibility	50	C320PC3
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 and Auto only nib	50	C320PC6
Gray cover with FLA dial accessibility, A, B, C, D positions and Manual only nib	50	C320PC7

Notes

- ① Add operating voltage suffix to catalog number.
A = 120V, **B** = 240V, **E** = 208V
- ② Rated 0.5 ampere pilot duty—not to be used on larger contactors.
- ③ Terminal connections are quick connects only. Two per side.
- ④ 240V operating voltage not available for C320TDN3000_.