

Mechanical Interlock and Reversing Kits

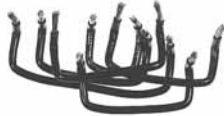
Mechanical interlocks and reversing kits are designed for field assembly of reversing contactors or starters from Freedom Series components. The Reversing Kits include a Mechanical Interlock, stabilizer bar and a pre-cut, trimmed and formed wire set. Auxiliary contacts, if required, must be ordered separately.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



Cat. No.
C321KM60B



Part No.
23-7165



Wire Set

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

Application		Catalog Number	Price U.S. \$
NEMA Size	IEC Size		
00	A – C	C321KM60K14B C321KM60K13B C321KM60K15B C321KM60K16B C321KM60K17 ①	
0	D – F		
1	—		
2	G – K		
3	—		
—	L and M	C321KM60K21 ① C321KM60K18 ① C321KM60K19 ① C321KM60K20 ① C321KM60K44 ①	
—	N		
4	—		
5	—		
—	P – S		

① Kit includes (2) NC auxiliary contacts.

Table 34-407. Mechanical Interlock Only ②③

Application			Catalog Number	Price U.S. \$
NEMA Size	IEC Size	Contactor Mounting		
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.

③ For use with latest series product.

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.

Table 34-408. Product Selection — Mounted Timer

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

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.

⑥ 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	C321SB18 C321SB19 C321SB21 C321SB22	
NEMA Size 4, IEC Sizes P – S		
NEMA Size 5		
NEMA Size 6, IEC Sizes T and U		

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	30	15	7.5	6
Break	3	1.5	.75	.6

Table 34-411. Product Selection

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