

Cover Control

Non-reversing

Flange Control Kits

For on-the-job conversion of Type 1, 3R, 4X and 12 enclosed starters. Knockouts are provided on the Type 1 flange. Type 3R, 4X and 12 have prepunched holes with removable hole plugs.

Factory Installed Pilot Devices

To order factory installed pilot devices, change the 9th character of the Catalogue Number to the alpha shown in the table below. Example: to order an **ECN0514CAA** with START/STOP pushbuttons and a red pilot light, change the **A** to a **C**, i.e. **ECN0514CCA**.



Figure 3-1



Figure 3-2

Reversing

Flange Control Kits

For on-the-job conversion of Type 1, 3R, 4X and 12 enclosed starters. Knockouts are provided on the Type 1 flange. Type 3R, 4X and 12 have prepunched holes with removable hole plugs.

Factory Installed Pilot Devices

To order factory installed pilot devices, change the 9th character of the Catalogue Number to the alpha shown in the table below. Example: to order an **ECN0614CAA** with FOR/REV/STOP pushbuttons and 2 red pilot lights, change the **A** to a **C**, i.e. **ECN0614CCA**.



Figure 3-3



Figure 3-4

Table 3-1. Non-reversing Pilot Devices

Description	Factory Installed Flange Control		Field Installation Kits	
	Position 9 Alpha	Non-combination ^① See Figure 3-1	Combination ^② See Figure 3-2	Non-combination ^① See Figure 3-1
				Combination ^② See Figure 3-2
				Catalogue Number
No Cover Mounted Pilot Devices	A	■	■	■C400GK0
START/STOP Pushbuttons	B	■	■	■C400GK1
with Red RUN Pilot Light	C	■	■	■C400GK12 ^③
with Red RUN/Green OFF Lights	D	■	■	■C400GK16 ^③
ON/OFF Pushbuttons	E	—	—	■C400T2
with Red RUN Pilot Light	F	—	—	■C400T12
with Red RUN/Green OFF Lights	G	—	—	■C400T12
HAND/OFF/AUTO Selector Switch	H	■	■	■C400GK3
with Red RUN Pilot Light	J	■	■	■C400GK32 ^③
with Red RUN/Green OFF Lights	K	■	■	■C400GK36 ^③
START Pushbutton	L	—	—	■C400T3
ON Pushbutton	M	—	—	■C400T4
OFF Pushbutton	N	—	—	■C400T5
Red RUN Pilot Light	P	■	■	■C400GK42 ^③
Green OFF	Q	■	■	■C400GK41 ^③
Red RUN/Green OFF Pilot Lights	R	■	■	■C400GK46 ^③
START/STOP Selector Switch	S	—	—	■C400T13
with Red RUN Pilot Light	T	—	—	■C400T13
with Red RUN/Green OFF Lights	U	—	—	■C400T13
ON/OFF Selector Switch	V	—	—	■C400T14
with Red RUN Pilot Light	W	—	—	■C400T14
with Red RUN/Green OFF Lights	X	—	—	■C400T14

① Type 1, NEMA Sizes 00 – 4/IEC Frames A – M Non-combination ONLY.

② Type 1, NEMA Sizes 5 – 9/IEC Frames N – V Non-combination PLUS all Type 3R, 4X, 12 Non-combination PLUS all Combination.

③ Add Code Letter from the table below to Catalogue Number for voltage — Kits only. Example: C400T9B.

Rating	Code Letter	Rating	Code Letter	Rating	Code Letter
120V 60 Hz	A	240V 60 Hz	B	480V 60 Hz	C
208V 60 Hz	E	380V 50 Hz	L	600V 60 Hz	D

Table 3-2. Reversing Pilot Devices

Description	Factory Installed Flange Control		Field Installation Kits	
	Position 9 Alpha	Non-combination ^④ See Figure 3-3	Combination ^⑤ See Figure 3-4	Non-combination ^④ See Figure 3-3
				Combination ^⑤ See Figure 3-4
				Catalogue Number
No Cover Mounted Pilot Devices	A	■	■	■C400GK0
FOR/REV/STOP Pushbuttons	B	■	■	■C400GR1
with 2 Red Pilot Lights	C	■	■	■C400GR14 ^⑥
with 2 Red/1 Green Pilot Lights	D	—	—	—
UP/STOP/DOWN Pushbuttons	E	■	■	■C400GR2
with 2 Red Pilot Lights	F	■	■	■C400GR24 ^⑥
FOR/OFF/REV Selector Switch	H	—	—	■C400T15
with 2 Red Pilot Lights	J	—	—	■C400T15
with 2 Red/1 Green Pilot Lights	K	—	—	■C400T15
Two Red Pilot Lights	P	■	■	■C400GK44 ^⑥
One Green Pilot Light	Q	■	■	■C400GK41 ^⑥
Two Red/One Green Pilot Lights	R	—	—	■C400T10 ^⑦
OPEN/OFF/CLOSE Selector Switch	V	—	—	■C400T16
with 2 Red Pilot Lights	W	—	—	■C400T16
with 2 Red/1 Green Pilot Lights	X	—	—	■C400T16

④ Type 1, NEMA Sizes 00 – 4/IEC Frames A – M Non-combination ONLY.

⑤ Type 1, NEMA Sizes 5 – 9/IEC Frames N – V Non-combination PLUS all Type 3R, 4X, 12 Non-combination PLUS all Combination.

⑥ Add Code Letter from the table below to Catalogue Number for voltage — Kits only. Example: C400T10B.

Rating	Code Letter	Rating	Code Letter	Rating	Code Letter
120V 60 Hz	A	240V 60 Hz	B	480V 60 Hz	C
208V 60 Hz	E	380V 50 Hz	L	600V 60 Hz	D

⑦ Order Quantity (2) of **C400T9**.

Catalogue Number Selection

Table 3-3. NEMA Freedom Line Enclosed Control Catalogue Numbering System

3

E C N 22 2 1 A A F -

Design	
N	Freedom NEMA
2	A200

Class		Page
01	Contactors	3-5
02	Reversing Contactors	3-8
05	FVNR Starter, Non-combination	3-9
06	Reversing, Non-combination	3-10
07	FVNR Non-combination, with CPT	3-11
08	Single-Phase FVNR (Freedom Only)	3-12
16	Combination with Disconnect Switch	3-13, 3-30
17	Reversing, Combination with Disconnect Switch	3-16
18	Combination with Disconnect Switch, with CPT	3-18, 3-32
22	Combination with HMCP	3-20, 3-34
23	Reversing, Combination with HMCP	3-23
24	Combination with HMCP with CPT	3-25, 3-36
33	Multispeed 2S2W Non-combination	3-39
34	Multispeed 2S1W CT or VT Non-combination	3-40
35	Multispeed 2S1W CH Non-combination	3-41
36	Multispeed with Disconnect Switch, 2S2W	3-42
37	Multispeed with Disconnect Switch, 2S1W CT or VT	3-44
38	Multispeed with Disconnect Switch, 2S1W CH	3-46
39	Multispeed with HMCP, 2S2W	3-48
40	Multispeed with HMCP, 2S1W CT or VT	3-49
41	Multispeed with HMCP, 2S1W CH	3-50

NEMA Size	
A =	Size 00
0 =	Size 0
1 =	Size 1
2 =	Size 2
3 =	Size 3
4 =	Size 4
5 =	Size 5
6 =	Size 6
7 =	Size 7
8 =	Size 8
9 =	Size 9

Modification Codes	
(See Page 13.29)	

Cover Control	
(Starters Only)	
(See Page 3-3)	
Number Of Poles	
(Contactors Only)	

Coil Voltage and/or Control Transformers	
(See Tables Below)	

Disconnect Fuse Clip Ratings			
A =	None	G =	100A/600V R
B =	30A/250V R	H =	200A/250V R
C =	30A/600V R	J =	200A/600V R
D =	60A/250V R	K =	400A/250V R
E =	60A/600V R	L =	400A/600V R
F =	100A/250V R	M =	600A/250V R
N =	600A/600V R	P =	800A/600V L
Q =	1200A/600V L	R =	1600A/600V L
S =	2000A/600V L	T =	by Description

HMCP or Breaker Ratings			
A =	None	J =	250A
B =	3A	K =	400A
C =	7A	L =	600A
D =	15A	M =	800A
E =	30A	N =	1000A
F =	50A	P =	1200A
W =	70A	Q =	2000A
G =	100A/RC3	R =	3000A
X =	100A/TC3	U =	by Description
H =	150A		
5 =	3A ①	6 =	7A ①
7 =	15A ①	8 =	30A ①
9 =	50A ①	I =	100A ①

Enclosure Type	
1 =	Type 1 — General Purpose
2 =	Type 3R — Rainproof
3 =	Type 4 — Watertight (Painted Steel)
4 =	Type 4X — Watertight (304-Grade Stainless Steel)
5 =	Type 4X — Corrosion (Nonmetallic)
6 =	Type 7/9 — Bolted Hazardous Location
7 =	Type 7/9 — Threaded Hazardous Location
8 =	Type 12 — Dust-Tight
9 =	Type 4X — 316-Grade Stainless Steel

① Use for Sizes 0 – 3, HMCP 600V applications only.

Table 3-4. Magnetic Coil Codes (System Voltage) ②

Code	Magnet Coil	Code	Magnet Coil	Code	Magnet Coil
A	120/60 110/50	K	240/50	U	24/50
B	240/60 220/50	L	380/50	V	32/50
C	460/60 440/50	M	415/50	W	48/60
D	575/60 550/50	P	12V DC	X	104 – 120/60
E	208/60	Q	24V DC	Y	48/50
G	550/50	R	48V DC	Z	By Description
H	277/60	S	125V DC		
J	208 – 240/60	T	24/60		

② When control power transformer modification codes (C1 – C11) are used or when starter class includes CPT (i.e. ECN07, 18) see table to the right for system voltage code.

Table 3-5. Control Power Transformer/Separate Control Codes (System Voltage)

Code	Primary	Secondary
B/BA	240/480 – 220/440 Wired for 240V	120/60 – 110/50
C/CA	240/480 – 220/440 Wired for 480V	120/60 – 110/50
D/DA	600/60 – 550/50	120/60 – 110/50
E/EA	208/60	120/60
H/HA	277/60	120/60
L/LA	380/50	110/50
M/MA	415/50	110/50
Q/ET	208/60	24
R/BT	240/480 – 220/440 Wired for 240V	24
S/CT	240/480 – 220/440 Wired for 480V	24
T/DT	600/60	24
U/UT	277/60	24
V/VT	380/50	24
W/WT	415/50	24
X	240/480/600 Wired for 480V	120
Y	240/480/600 Wired for 480V	24
Z	By Description	