

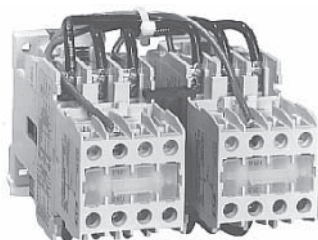
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Note: For more information, see CA03402001E.



IEC Size B
Cat. No. CE15BNS3AB



IEC Size D
Cat. No. CE55DN3AB

Product Description

Non-reversing

Contactors are most commonly used to switch motor loads in applications where running over current protection is either not required or is provided separately. Contactors consist of a magnetically actuated switch which can be remotely operated by a push-button station or pilot device such as a proximity switch, limit switch, float switch, auxiliary contacts, etc.

Reversing

Reversing contactors are used primarily for reversing single- or three-phase motors in applications where running over current protection is either not required or is provided separately. They consist of two contactors mechanically and electrically interlocked to prevent line shorts and energization of both contactors simultaneously.

Features

- **EN60947-4-1 IEC 947-4-1 Compliance** — new International Standard for low voltage switchgear and control devices.
- Long life twin break, silver cadmium oxide contacts — provide excellent conductivity and superior resistance to welding and arc erosion.
- Designed to 2,000,000 electrical and 20,000,000 mechanical operations at maximum hp ratings through 20 hp at 460V. Adequate for most general duty control applications.

Non-reversing

- UL listed and CSA certified.
- Highest horsepower rating in a compact, space-saving design, 45 mm frame rated maximum 20 hp at 460V, 65 mm frame rated maximum 50 hp, 90 mm frame rated 100 hp, 180 mm frame rated 200 hp, 220 mm frame rated 350 hp, 280 mm frame rated 600 hp, and 334 mm frame rated 900 hp.
- 45 mm open contactors, Sizes A – F, have DIN rail or universal base mounting, 65 mm open contactors have molded feet for panel mounting, and 90 mm to 334 mm have steel mounting plates (optional on smaller sizes).
- DIN rail release mechanism conveniently located on line side of contactor.

- IP20 finger protection shields available.
- Contactor and terminal markings conform to CENELEC EN50011.
- Holding circuit contact(s) supplied as standard:
 - Sizes A – N have a NO auxiliary contact block mounted on right hand side (on Sizes A – C, contact occupies 4th power pole position — no increase in width).
 - Sizes P – S have a NO-NC contact block mounted on the left hand side.
 - Sizes T – Z have a 2NO-2NC contact block mounted on the top left between arc chutes.
- Lugs supplied standard on Sizes A – S. On Sizes T – Z, lugs must be ordered separately.

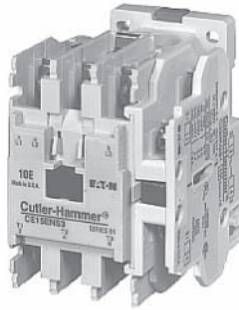
Reversing

- Highest horsepower rating in a compact, space-saving design, 45 mm frame rated maximum 20 hp, 65 mm frame rated maximum 50 hp and 90 mm frame rated maximum 75 hp at 460V. If larger devices are required, order components.
- 45 mm open type reversing contactors, Sizes A – F, have DIN rail or panel mounting capability. DIN rail release mechanism conveniently located on line side of contactor. A steel mounting plate is optional.
- 65 mm reversing contactors, Sizes G – K and 90 mm Sizes L – N are supplied with steel mounting plate as standard.
- Sizes A – K have a wired NC top mounted electrical interlock on each contactor. Sizes L – N have one NO-NC side mounted electrical interlock on each contactor.

**Product Selection —
3-Pole Contactors**

When Ordering Specify

- Select required contactor by Catalog Number and replace the magnet coil alpha designation in the Catalog Number () with the proper Code Suffix from **Tables 34-324 and 34-326, on Page 34-265.**
- For Sizes A – K, the magnet coil alpha designation is the second-to-last digit of the Catalog Number. Example: for a 240V/60 Hz coil, order CE15ANS3BB.



**IEC Size E
Cat. No. CE15ENS3AB**



**IEC Size N
Cat. No. CE15NN3A**

Table 34-322. Type CE15/CE55 IEC Product Selection — 3-Pole Contactors

Max. UL AC-3 Amp. Rating 600V AC	IEC 947 AC-1 Thermal Current 600V	Maximum kW Rating					Maximum UL Horsepower						3-Pole — Non-reversing ^{①②}		3-Pole — Reversing ^③	
		3-Phase					1-Phase		3-Phase				Catalog Number	Price U.S. \$	Catalog Number	Price U.S. \$
		220V	380V	415/440V	500/550V	660V	115V	230V	200V	230V	460V	575V				
7	20	1.1	2.2	2.2	4	1.5	1/4	1/2	1-1/2	1-1/2	3	5	CE15ANS3_B		CE55AN3_B	
10	20	1.5	4	4	5.5	2.2	1/2	1	2	2	5	7-1/2	CE15BNS3_B		CE55BN3_B	
12	20	2.2	5.5	5.5	7.5	4	1/2	2	3	3	7-1/2	10	CE15CNS3_B		CE55CN3_B	
18	32	4	7.5	7.5	11	5.5	1	3	5	5	10	15	CE15DNS3_B		CE55DN3_B	
25	32	5.5	11	11	15	7.5	2	3	5	7-1/2	15	20	CE15ENS3_B		CE55EN3_B	
32	32	7.5	15	15	18.5	10	2	5	7-1/2	10	20	25	CE15FNS3_B		CE55FN3_B	
37	50	—	18.5	18.5	22	11	3	5	7-1/2	10	25	30	CE15GNS3_B		CE55GN3_B	
44	60	11	22	22	30	15	3	7-1/2	10	15	30	40	CE15HNS3_B		CE55HN3_B	
60	75	15	30	30	30	18.5	5	10	15	20	40	40	CE15JNS3_B		CE55JN3_B	
73	80	18.5	37	37	37	22	5	10	20	25	50	50	CE15KNS3_B		CE55KN3_B	
85	100	22	45	45	55	37	7-1/2	10	25	30	60	75	CE15LN3_		CE55LN3_	
105	135	30	55	55	75	45	10	10	30	40	75	100	CE15MN3_		CE55MN3_	
140	175	37	75	75	90	45	10	10	40	50	100	125	CE15NN3_		CE55NN3_	
170	185	45	90	90	90	45	—	—	50	60	125	125	CE15PN3_		—	
200	220	55	110	110	110	55	—	—	60	75	150	150	CE15RN3_		—	
300	315	90	160	160	160	75	—	—	75	100	200	200	CE15SN3_		—	
420	600	129	220	240	300	300	—	—	125	125	250	250	CE15TN3_80		—	
520	760	160	280	315	375	375	—	—	150	150	350	350	CE15UN3_80		—	
550	1000	220	375	—	500	500	—	—	150	200	400	400	CE15VN3_80		—	
700	1000	220	375	—	500	500	—	—	200	250	500	500	CE15WN3_80		—	
810	1100	270	475	—	600	600	—	—	250	300	600	600	CE15XN3_80		—	
1215	1350	380	650	—	840	840	—	—	450	450	900	900	CE15ZN3_80		—	

- ① IEC Sizes A – N are supplied with a NO auxiliary contact. On IEC Sizes A – C, the 4th power pole position is used as the auxiliary contact and adds no additional width. Open type Sizes A – K can be ordered with a top mounted auxiliary contact instead of a side mounted contact. To order, change the 7th digit of the listed Catalog Number from “S” to “T”. Example: CE15ANT3AB. On open type Sizes A – K, if the NO auxiliary contact is not required, drop the “S” from the listed Catalog Number.
- ② Auxiliary contacts: Sizes P – S have 1NO-1NC, Sizes T – X have 2NO-2NC, Size Z has 2NO-1NC. Sizes T – Z are supplied without lugs — order appropriate lug kits from **Table 34-325 on Page 34-265.**
- ③ Sizes A – K IEC contactors do not include holding circuit contacts. For factory installed NO auxiliary contacts, insert “S” (side mounted) or “T” (top mounted) after 6th digit of listed Catalog Number. Example: Change CE55AN3AB to CE55ANS3AB. For “T”, top mounted NC contact blocks are replaced with NO-NC blocks — for “S”, they are replaced with NO-NC side mounted blocks.

Accessories **Pages 34-277 – 34-283**
Discount Symbol **1CD7**

Contactors — Non-reversing and Reversing

Table 34-324. AC Coil Suffixes

Coil Volts and Hertz	Code Suffix
120/60 or 110/50	A
240/60 or 220/50	B
480/60 or 440/50	C
600/60 or 550/50	D
208/60	E
277/60	H
208-240/60 ①	J
240/50	K
380-415/50	L
550/50	N
380/60	P
24/60, 24/50 ②	T
24/50	U
32/50	V
48/60	W
48/50	Y

① IEC Sizes A – F only.

② IEC Sizes A – F only. Sizes G – V are 24/60 only.

Table 34-325. Line/Load Lug Kits — IEC Sizes T – Z Only

Lugs come standard on all contactors except sizes T – Z. If lugs are required, order separately from below. Each kit consists of three line and three load side lugs and hardware.			
Contactor Size	Cable Range	Catalog Number	Price U.S. \$
T	(2) #2/0 – 600 kcmil	C325KAL15	
U	(2) #2/0 – 600 kcmil	C325KAL16	
V – W	(2) #3/0 – 750 kcmil	C325KAL17	
X	(3) #3/0 – 750 kcmil	C325KAL18	
Z	(4) #1/0 – 750 kcmil	C325KAL19	

Table 34-326. DC Coil Suffixes

Contactor or Starter Size — IEC	Volts	NCI Interlock	Code Suffix
Non-reversing			
A – F	12	C320KGD1	R1
	24	C320KGD1	T1
	48	C320KGD1	W1
	120	C320KGD1	A1
A – F	12	C320KGD2 ③	R4
	24	C320KGD2 ③	T4
	48	C320KGD2 ③	W4
	120	C320KGD2 ③	A4
G – K	12	C320KGD5	R4
	24	C320KGD5	T4
	48	C320KGD5	W4
	120	C320KGD5	A4
L – N	12	C320KGD3	R1
	24	C320KGD3	T1
	48	C320KGD3	W1
	120	C320KGD3	A1
P – S	24	C320KGD3	T1B
	48	C320KGD3	W1B
	120	C320KGD3	A1B
	240	C320KGD3	B1B
Reversing			
A – F	12	(2) C320KGD1	R1 ④
	24	(2) C320KGD1	T1 ④
	48	(2) C320KGD1	W1 ④
	120	(2) C320KGD1	A1 ④
G – K	12	(2) C320KGD3	R1 ④
	24	(2) C320KGD3	T1 ④
	48	(2) C320KGD3	W1 ④
	120	(2) C320KGD3	A1 ④

③ These kits are supplied with a NO/NCI side mounted auxiliary contact in place of the NCI contact.

④ Factory installed DC coils on IEC contactors and starters include a NC top mounted auxiliary contact on each contactor for electrical interlocking.