NEMA Labeled **KWIKStarters**

NEMA Starters

Preassembled or build from stock -Easy, fast, economical enclosed starters for applications up to 30HP



Most KWIKstarters are equipped with Thermal Overload protection as standard Sprecher + Schuh offers a broad selection of pre-assembled or "build-from-stock" starters housed in a high impact, nonmetallic, cUL Approved, Type 1, 12, 4, 4X enclosure. Built for convenience, space savings and economy, KWIKstarters are efficiently designed to use stock CA7 contactors and CEP7 or CT7N overloads usually stocked by distributors. Contactor and overload are either pre-wired and pre-mounted onto the enclosure's built-in DIN-rail or may be ordered as separate components. Ample knockouts and open terminals guarantee quick, no fuss wiring.

Sized for most industrial applications

KWIKstarters control motors up to 30HP @ 460V in two sizes of enclosures, measuring only 208 x 98mm (7.4" x 3.9") or 250 x 125mm (9.85" x 4.93") for our larger sizes. This covers over 85% of industrial motor control applications in a very compact package that can be mounted adjacent to or directly on equipment.

Thermal overload protection

KWIKstarters, sized 9 to 23 amps, are equipped with Sprecher + Schuh's CT7N bimetallic thermal overload relay as standard. The consistent high quality of our thermal overload relays is ensured by a complex current calibration procedure performed after each unit is at full operating temperature.



KWIKstarters are also available with our advanced CEP7 Solid State **Overload Relay (select** appropriate overload relay code for this option)

Solid state overload options

KWIKstarters, sizes 9 to 23 amps, can also be supplied with Sprecher + Schuh's CEP7 solid state overload relay. The CEP7 Overload is standard on larger (sizes 30 to 43 amps) and all reversing KWIKstarters. The CEP7 solid state overload relays measure motor current directly through integrated current transformers and on board electronics. The electronics provide increased accuracy and numerous other advantages over electromechanical relays. Learn more about Sprecher + Schuh overload relays in Section B of this catalog.

Build it yourself...

KWIKstarters may be assembled from stock components. Just grab a CA7 contactor and overload of your choice and snap them into the enclosure. Minimal wiring is required and assembly can be completed in minutes.



Reset only

options



Series CAKN7 & CBKN7 - AC and Electronic DC Coils

NEMA KWIKstarters

NEMA KWIKstarters with CEP7 Overload Relays o

Cover Control/	ze	Maximum Horsepower						Total Aux.		cUL Approved- Type 1/12/4/4X	
Enclosure (KS7-C0S1/C0S4)	NEMA Size	Single Ø Three Ø Installe					IP66	M			
	2	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0
				KWIKst	arter wi	th Start	& Raised	d Stop v	with AC	Coil 9 🛛	
	00	.33	1	~	~	~	~	10	0	CBKN7-12- ≭ -◆-P2	Q1
R.		~	~	1.5	1.5	2	2	10	Ŭ	CAKN7-12- 米 -♦-P2	~
TITA	0	1	2	~	~	~	~	10	0	CBKN7-16- * - + -P2	Q1
	Ů	~	~	3	3	5	5		0	CAKN7-16- * -♦-P2	
	KWIKstarter with Start & Raised Stop with Electronic DC Coil 💿										
	00	.33	1	~	~	~	~	10	0	CBKN7-12E- * -♦-P2	Q1
1 miles		~	~	1.5	1.5	2	2		0	CAKN7-12E- * -♦-P2	GI
		1	2	~	~	~	~	10	0	CBKN7-16E-*	Q1
		~	~	3	3	5	5		0	CAKN7-16E- 米 -◆-P2	UI
	KWIKstarter with Reset with AC Coil									ι	
	00	.33	1	~	~	~	~	10	0	CBKN7-12- *- ◆-P0	Q1
	00	~	~	1.5	1.5	2	2	10	U	CAKN7-12- ★ -◆-P0	GI
2220	0	1	2	~	~	~	~	10	0	CBKN7-16- * -◆-P0	Q1
	0	~	~	3	3	5	5	10	0	CAKN7-16-*-+P0	
				KWI	{starter	with Re	set with	Electro	onic DC	Coil 🞯	
	00	.33	1	~	~	~	~	10	0	CBKN7-12E- * - + -P0	Q1
Long.	00	~	~	1.5	1.5	2	2		0	CAKN7-12E- 米 -◆-P0	
	0	1	2	~	~	~	~	10	0	CBKN7-16E- 米 -◆-P0	Q1
	U	~	~	3	3	5	5		0	CAKN7-16E- 米 -◆-P0	

Coil Codes 🕫

A.C.	Voltage	Range	Control Source						
Coil Code	50 Hz	60 Hz	CBK7	CAK7					
24Z	24V	24V	Separate	Separate					
120	110V	120V	Common	Separate					
220W	200-220V	208-240V	Common	Common					
277	240V	277V	Common	~					
415	400-415V	~	~	Common					
480	440V	480V	~	Common					
600	550V	600V	~	Common					
D.C.	Voltage	e Range							
Coil Code	VE	C							
12E	12	2V							
24E	24	ŧV							

Control Circuit Note

Common: Coils are assumed to be common with the line voltage and will be connected to the line source (L1-L2) per the table.

Separate: Coils are assumed to be from a separate source and will not be connected to the line source per the table.

Ordering Instructions

Specify Catalog Number						
Replace ($*$) with Coil Code Replace (\diamond) with O/L Relay	See this page See page C7:14					
Important Note: KWIKstarters are only designed to accommodate						

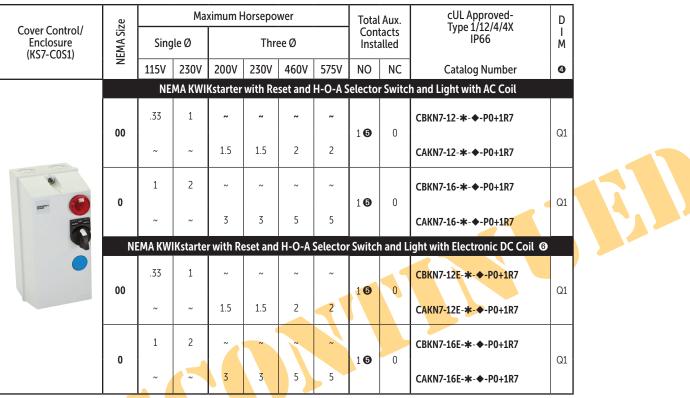
CEP7 Solid State Overload Relays. Select O/L Relay Code from page C7:14.

- KWIKstarters are designed for three-wire control circuits. Two-wire (maintain) control can be accomplished by adding pushbutton latch KS7-PLA.
- A special design NO auxiliary contact (Cat.# KS7-PCK) is used as the holding circuit interlock, as well as, the START button interface. It is not available for other use.
- S Refer to page C7:17 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.
- G Other voltages available, see Section A.
- G CAN7-12E...16E with electronic coils are not interchangeable with non-electronic DC or AC coils.



Series CAKN7 & CBKN7 - AC and Electronic DC Coils

NEMA KWIKstarters with CEP7 Overload Relays with H-O-A and Light 0000



Coil Codes o

VEMA Starters

A.C.	Voltage	Range	Control Source			
Coil Code	le 50 Hz 60 Hz		СВК7	CAK7		
24Z	24V 24V 24V		Separate	Separate		
120	110V	120V	Common	Separate		
220W	200V-220V	208V-240V	Common	Common		
D.C.	Voltage	e Range				
Coil Code	VE	C				
12E	12	2V				
24E	24					

Control Circuit Note

- **Common:** Coils and pilot devices in the control circuit are assumed to be common with the line voltage and will be connected to the line source (L1-L2) per the table.
- Separate: Coils and pilot devices in the control circuit are assumed to be from a separate source and will not be connected to the line source per the table. Line Voltage not listed: (i.e.: 480 and 575 VAC) require a separate control source (i.e.: 120 VAC). D7D pilot devices are rated 300 VAC maximum.

Ordering Instructions

Specify Catalog Number	
Replace (*) with Coil Code Replace (*) with O/L Relay	See this page See page C7:14

Important Note: KWIKstarters are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C7:14.

- This is a factory assembly. The KS7-C0S1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- ♥ Uses DDD-P4N_ Red Monolithic "Run" pilot light with LED bulb. Pilot light voltage to match coil voltage for 24, 120, 240 VAC control. Red "Run" Light can be changed for Green. Change +1R7 to +1G7. For example, CAKN7-12-★-◆-P0+1R7 becomes CAKN7-12-★-◆-P0+1G7.
- Uses D7D-SM32x20 Monolothic 3-position selector switch for maintain control, HAND-OFF-AUTO function with legend plate.
- Refer to page C7:10 for wiring and C7:17 for dimensional information. This is a clam-shell
 enclosure design with wires to cover controls.
- One NO auxilliary for customer use. There is no room for additional auxilliaries.
- G CAN7-12E...16E with electronic coils are not interchangeable with non-electronic DC or AC coils.



Series CAKN7 & CBKN7 - AC & Elec. 24VDC Coils

NEMA KWIKstarters with CEP7 Overload Relays o

Enclosure (KS7-C2S4)	NEMA Size					cUL Approved- Type 1/12/4/4X IP66						
	N	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0	
		NEMA KWIKstarters with AC Coil										
	1	2	3	~	~	~	~	1 0	CBKN7-37- * - ◆ -P▼	Q2		
B) Y	1	~	~	7.5	7.5	10	10		CAKN7-37- * -♦-P▼	02		
•	2	3	7.5	~	~	~	~	1	1 0	CBKN7-43- * - ◆ -P▼	Q2	
	2	~	~	10	15	25	25			CAKN7-43- * - ◆ -P▼		
R	NEMA KWIKstarters with Electronic DC Coil @											
-	1	3	5	~	~	~	~	1	0	CBKN7-37E- ≭ - ♦ -P▼	Q2	
	1	~	~	7.5	7.5	10	10		0	CAKN7-37E- * - ♦ -P▼	QZ	
	2	3	7.5	~	~	~	~	1	0	CBKN7-43E- ★ - ◆ -P▼	Q2	
	2	~	~	10	15	25	25			CAKN7-43E- *- ◆-P▼	92	



Coil Codes (*) 000

A.C. Coil Code	Voltage	e Range	Control		D.C. Coil	
Concode	50 Hz	60 Hz	CBK7	CAK7		Code
24Z	24V	24V	Separate	Separate		12E
120	110V	120V	Common	Separate		24E
220W	200-220V	208-240V	Common	Common		48E
277	240V	277V	Common	~		220E
415	400-41 <u>5</u> V	~	~	Common		
480	440V	480V	~	Common		
600	550V	600V	~	Common		

AC Control Circuit Note

Voltage Range

VDC

12V

24V

48-72V

220-250V

Common: Coils and pilot devices in the control circuit are assumed to be common with the line voltage and will be connected to the line source (L1-L2) per the table.

Separate: Coils and pilot devices in the control circuit are assumed to be from a separate source and will not be connected to the line source per the table. Pilot lights are 240 VAC maximum.

Pilot Device Options (includes reset) @@

Pushbutton Description	Replace ▼ in catalog number with
START-STOP Multi-function (shown)	30
I-O Multi-function	4U
OFF-ON 2-Position Selector switch	6
Pilot Light Red (LED) with START-STOP Multi-function ③	1R3U
Pilot Light Red (LED) with I-0 Multi-function (3)	1R4U

Optional CA7 Modifications (Factory Assembled) ®

Description	Add to end of catalog number
Electronic Interface	-JE
Surge Suppressor RD	-c
Surge Suppressor Varistor	-V
Additional NC Contact	-L01
Additional NO Contact	-L10

Ordering Instructions

Specify Catalog Number	
Replace (★) with Coil Code Replace (♦) with O/L Relay Replace (▼) with Pilot Device Option	See this page only

- Other voltages available, see Section A.
- One and only one Pilot Device option must be selected. If Pilot Light option is selected then coil voltage must be 24V AC or DC, 120V or 240V AC only.
- CPT not possible with KS7-C2S4 (Q2) enclosure.
- (3) List price adder may apply for this option.

Replace + with one of the following Overload Relays

For use with KWIKstarter	Amp Range	Overload Relay Code (♠)	Catalog Number (of Overload Relay used)					
1-Phase & 3-Phase / Manual Reset / Class 10 or 20								
	5.427	1EED	CEP7-1EEED					
САК7-3043	1155	1EFD	CEP7-1EEFD					
1-Phase & 3-Phase / Auto or Manual Reset / Class 10, 15, 20, 30 💿								
CAK7-3043	5.427	FED	CEP7-1EFED					
CAK7-5045	1155	FFD	CEP7-1EFFD					

• Use CEP7-1 overloads only - and also backward compatible to CEP7-ED1/EE.

- Plastic Bezel is standard. Pilot Device options include D7-BX_ Base Mounted contact blocks. See page H69 for more information.
- Sefer to page C7:15 for wiring diagram and C7:17 for dimensional information.
- CAN7-37E...43E with electronic coils are not interchangeable with non-electronic DC or AC coils.



NEMA KWIKstarters / Reversing

Series CAUKN7 - AC & Elec. 24VDC Coils

Three Phase Reversing NEMA KWIKstarters with CEP7 Overload Relays og

Enclosure	Size	Ma	kimum H	lorsepo	wer		l Aux.	cUL Approved- Type 1/12/4/4X
(KS7-C0S4R)	NEMA S		Thre	ee Ø			tacts alled	IP66
	Ν	200V	230V	460V	575V	NO	NC	Catalog Number
				3-Phas	se FVR N	IEMA H	(WIKsta	arter with AC Coil
sprecher+	00	1.5	1.5	2	2	1	1	CAUKN7-12- *- ◆-P▼
	0	3	3	5	5	1	1	CAUKN7-16- ≭ -�-P▼
			3-PI	nase FVF	RNEMA	KWIKs	tarter v	vith Electronic DC Coil
	00	1.5	1.5	2	2	1	1	CAUKN7-12E- ≭- ◆-P▼
	0	3	3	5	5	1	1	CAUKN7-16E- ≭ -◆-P▼



Coil Codes (*) 000

A.C.	Voltage	e Range	Control	Source	
Coil Code	50 Hz	60 Hz	CBK7	CAK7	
24Z	24V	24V	Separate	Separate	
120	110V	120V	Common	Separate	
220W	200-220V	208-240V	Common	Common	
277	240V	277V	Common	~	
415	400-415V	~	~	Common	[
480	440V	480V	~	Common	
600	550V	600V	~	Common	

D.C. Coil	Voltage Range
Code	VDC
12E	12V
24E	24V
36E	36-48V
48E	48-72V
110E	110-125V
220E	220-250V

AC Control Circuit Note

D Т М 0

Q3

Q3

Q3

Q3

Common: Coils and pilot devices in the control circuit are assumed to be common with the line voltage and will be connected to the line source (L1-L2) per the table.

Separate: Coils and pilot devices in the control circuit are assumed to be from a separate source and will not be connected to the line source per the table. Pilot lights are 240 VAC maximum.

For use with KWIKstarter	Amp Range	Relay Code (♠)	Catalog Number (of Overload Relay used)
1-Pha	se & 3-Pha	se / Manual R	eset / Class 10 or 20
	0.10.5	1EAB	CEP7-1EEAB
	0.21.0	1EBB	CEP7-1EEBB
CAUKN7-1216 CAUKN7-12E16E	1.05.0	1ECB	CEP7-1EECB
	3.216	1EDB	CEP7-1EEDB
	5.427	1EEB	CEP7-1EEEB
1-Phase & 3-P	Phase / Aut	o or Manual R	eset / Class 10, 15, 20, 30 🛛
	0.10.5	FAB	CEP7-1EFAB
	0.21.0	FBB	CEP7-1EFBB
CAUKN7-1216 CAUKN7-12E16E	1.05.0	FCB	CEP7-1EFCB
CAURIO -121101	3.216	FDB	CEP7-1EFDB
	5.427	FEB	CEP7-1EFEB

Replace ◆ with one of the following Overload Relays Overload

- Use CEP7-ED/CEP7-EE overloads only.
- Plastic Bezel is standard. Pilot Device options include D7-BX_ Base Mounted contact blocks. See page H69 for more information.
- S Refer to page C7:16 for wiring diagram and C7:17 for dimensional information.
- OCAN7-12E...16E with electronic coils are not interchangeable with non-electronic DC or AC coils. Other voltages available, see Section A.
- One Pilot Device option must be selected. Blanks are not available. If Pilot Light option is selected then Pilot Light must match Coil Voltage 24V AC or DC, 120V or 240V AC only.
- OCPT not possible with KS7-COS4R (Q3) enclosure.
- One N.C. auxiliary contact is used for electrical interlocking. On CAUKN7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat# CM7-02).
- List price adder may apply for this option.

NEMA Starters

Pilot Device Options (includes reset) @@

Pushbutton Description	Replace ▼ in catalog number with
FOR-STOP-REV Multi-function (shown)	3U
UP-STOP-DOWN Multi-function	4U
OPEN-STOP-CLOSE Multi-function	5U
FOR-STOP-REV 3-Position Selector switch	6
UP-OFF-DOWN 3-Position Selector switch	7
OPEN-OFF-CLOSE 3-Position Selector switch	8
Overload Alarm Pilot Light	1Y
D7-N8 22mm Hole Plug	0

Optional CA7 Modifications (Factory Assembled) (a)

Add to end of
catalog number
-2JE
-2C
-2V

Ordering Instructions

Specify Catalog Number				
Replace (*) with Coil Code				
Replace (♠) with O/L Relay	See this page only			
Replace ($oldsymbol{ abla}$) with Pilot Device Option				



Series CAKN7 with Start-Stop or Reset Only

Three Phase, Non-Reversing CAKN7 @ 200V AC KWIKstarter

NEMA Size	Max HP 3 Ø	Start-Stop Pushbutton or Multifunction with Reset		Reset Only	D I M
Z	200V	Ac	Catalog Number	Catalog Number	6
	0.5	1.05.0	CAKN7-12-220W-1ECB-P2 0 0 0	CAKN7-12-220W-1ECB-P0 0 2	
00	0.75	1.05.0	CAKN7-12-220W-1ECB-P2 0 0 0	CAKN7-12-220W-1ECB-P0 0 2	1
00	1	3.216	CAKN7-12-220W-1EDB-P2 0 0 0	CAKN7-12-220W-1EDB-P0 0 0	Q1
	1.5	3.216	CAKN7-12-220W-1EDB-P2 0 0 0	CAKN7-12-220W-1EDB-P0 0 2] 01
0	2	3.216	CAKN7-16-220W-1EDB-P2 🛛 🛛 🕄	CAKN7-16-220W-1EDB-P0 0 2]
0	3	3.216	CAKN7-16-220W-1EDB-P2 🛈 🥹 🕄	CAKN7-16-220W-1EDB-P0 0 2	
1	5	5.427	CAKN7-37-220W-1EED-P3U 🛛 🕲 💿		
	7.5	1155	CAKN7-37-220W-1EFD-P3U 🛛 🗿 😡]	Q2
2	10	1155	CAKN7-43-220W-1EFD-P3U 🛛 🕲 💿		

Three Phase, Non-Reversing CAKN7 @ 230V AC KWIKstarter

NEMA Size	Max HP 3 Ø	Adjustment Range	Start-Stop Pushbutton or Multifunction with Reset		D I M
Z	230V	A	Catalog Number	Catalog Number	0
	0.5	1.05.0	CAKN7-12-220W-1ECB-P2 🛛 🥹 🧹	CAKN7-12-220W-1ECB-P0 0 2	
00	0.75	1.05.0	CAKN7-12-220W-1ECB-P2 0 0 0	CAKN7-12-220W-1ECB-P0 0 @	
	1	1.05.0	CAKN7-12-220W-1ECB-P2 0 0 0	CAKN7-12-220W-1ECB-P0 00	01
	1.5	3.216	CAKN7-12-220W-1EDB-P2 0 0	CAKN7-12-220W-1EDB-P0 0 @	
0	2	3.216	CAKN7-16-220W-1EDB-P2 0 0	CAKN7-16-220W-1EDB-P0 00	
0	3	3.216	CAKN7-1 <mark>6-220</mark> W-1EDB-P2 0 Ø Ø	CAKN7-16-220W-1EDB-P0 00	
1	5	5.4 <mark>27</mark>	CAKN7-37-220W-1EED-P3U 3		
	7.5	5.427	CAKN7-37-220W-1EED-P3U		32
2	10	<u>11</u> 55	CAKN7-43-220W-1EFD-P3U O		34
2	15	1155	CAKN7-43-220W-1EFD-P3U O O		

Three Phase, Non-Reversing CAKN7 @ 480V AC KWIKstarter

		-	2		
NEMA Size	Max HP 3 Ø	Adjustment Range	Start-Stop Pushbutton or Multifunction with Reset	Reset Only	D I M
Z	460V	Ac	Catalog Number	Catalog Number	6
	0.5	1.05.0	CAKN7-12-480-1ECB-P2 0 0 0	CAKN7-12-480-1ECB-P0 00	
	0.75	1.05.0	CAKN7-12-480-1ECB-P2 0 0 0	CAKN7-12-480-1ECB-P0 00	
00	1	1.05.0	CAKN7-12-480-1ECB-P2 0 0	CAKN7-12-480-1ECB-P0 00	
	1.5	1.05.0	CAKN7-12-480-1ECB-P2 0 2 3	CAKN7-12-480-1ECB-P0 00	Q1
	2	1.05.0	CAKN7-12-480-1ECB-P2 0 0	CAKN7-12-480-1ECB-P0 00	
0	3	3.216	CAKN7-16-480-1EDB-P2 🛈 🥝 🚱	CAKN7-16-480-1EDB-P0 00	
0	5	3.216	CAKN7-16-480-1EDB-P2 🛈 🥝 🚱	CAKN7-16-480-1EDB-P0 00	
1	7.5	5.427	CAKN7-37-480-1EED-P3U 🛛 🗿		
	10	5.427	CAKN7-37-480-1EED-P3U 🛛 🗿		
	15	1155	CAKN7-43-480-1EFD-P3U 🛛 🗿]	Q2
2	20	1155	CAKN7-43-480-1EFD-P3U 0 🗿]	
	25	1155	CAKN7-43-480-1EFD-P3U 00		



CAK7-37...43 Amp (Q2 Dim)

Full Voltage Non-Reversing (FVNR) Features include:

- NEMA-sized CAN7 contactor
- CEP7 Solid State Overload Relay (Q1/ Q2 Dim)
- Green Start pushbutton (Q1 Dim – Start/Stop)
- Red Raise Stop pushbutton (Q1 Dim – Start/Stop)
- Reset pushbutton
- (Q1 Dim Reset)
- 1-NO auxiliary for customer useNon-Metallic Enclosure Type
- 1/12/4/4X, IP66
- Pre-wired for easy installation
- Ideal for compressors, fans, blowers

• KWIKstarters are designed for three-wire control circuits. Two-wire (maintain) control can be accomplished by adding pushbutton latch KS7-PLA.

A special design NO auxiliary contact (Cat # KS7-PCK) is used as the holding circuit interlock, as well as, the START button interface. It is not available for other use.

- STOP button also functions as RESET button. Plastic bezel is standard.
- Use CEP7-1 overloads only and also backward compatible to CEP7-ED1/EE.

Plastic bezel is standard. Pilot device options include D7-BX_base Mounted contact blocks. See page H69 for more information.

G Refer to page C100.18 for dimensional information



NEMA Starters

Series CBKN7 with Start-Stop or Reset Only

Single Phase, Non-Reversing CBKN7 @ 115V AC KWIKstarter o

NEMA Size	Max HP 1 Ø	Adjustment Range	Start-Stop Pushbutton or Multifunction with Reset 200	Reset Only	D I M
Z	115V	Ac	Catalog Number	Catalog Number	0
00	0.25	3.216	CBKN7-12-120-1EDB-P2 🞯	CBKN7-12-120-1EDB-P0 🎯	\square
00	0.33	3.216	CBKN7-12-120-1EDB-P2 🞯	CBKN7-12-120-1EDB-P0 🎯	
	0.5	3.216	CBKN7-16-120-1EDB-P2 🞯	CBKN7-16-120-1EDB-P0 🎯	Q1
0	0.75	3.216	CBKN7-16-120-1EDB-P2 3	CBKN7-16-120-1EDB-P0 🎯]
	1	5.427	CBKN7-16-120-1EEB-P2 🞯	CBKN7-16-120-1EEB-P0 🞯	
1	1.5	5.427	CBKN7-37-120-1EED-P3U 03		
	2	1155	CBKN7-37-120-1EFD-P3U 🔊]	Q2
2	3	1155	CBKN7-43-120-1EFD-P3U 🕫		

Single Phase, Non-Reversing CBKN7 @ 230V AC KWIKstarter o

NEMA Size	Max HP 1 Ø	Adjustment Range	Start-Stop Pushbutton or Multifunction with Reset 200	Reset Only	D I M
2	230V	Ä	Catalog Number	Catalog Number	0
	0.25	1.05.0	CBKN7-12-220W-1ECB-P2 🗿	CBKN7-12-220W-1ECB-P0 @	
	0.33	1.05.0	CBKN7-12-220W-1ECB-P2 🗿	CBKN7-12-220W-1ECB-P0 @	1
00	0.5	3.216	CBKN7-12-220W-1EDB-P2 🞯	CBKN7-12-220W-1EDB-P0 @]
	0.75	3.216	CBKN7-12-220W-1EDB-P2 🗿	CBKN7-12-220W-1EDB-P0 @	Q1
	1	3.216	CBKN7-12-220W-1EDB-P2	CBKN7-12-220W-1EDB-P0 3	
0	1.5	3.216	CBKN7-16-220W-1EDB-P2	CBKN7-16-220W-1EDB-P0 @]
0	2	3.216	CBKN7-16-220W-1EDB-P2 0	CBKN7-16-220W-1EDB-P0 🞯	
1	3	5.427	CBKN7-37-220W-1EED-P3U 00		
2	5 🥌	1155	CBKN7-43-220W-1EFD-P3U @3		Q2
2	7.5	1155	CBKN7-43-220W-1EFD-P3U 00		



CBKN7-37...43 Amp

Full Voltage Non-Reversing (FVNR)

Features include:

- NEMA-sized CAN7 contactor
- CEP7 Solid State Overload Relay
- Green Start pushbutton
- Red Raise Stop pushbutton
- Reset pushbutton
- 1-NO auxiliary for customer use
- Non-Metallic Enclosure Type
- 1/12/4/4X, IP66 • Pre-wired for easy installation
- Ideal for compressors, fans, blowers

• KWIKstarters are designed for three-wire control circuits. Two-wire (maintain) control can be accomplished by adding pushbutton latch KS7-PLA.

- A special design NO auxiliary contact (Cat.# KS7-PCK) is used as the holding circuit interlock, as well as, the START button interface. It is not available for other use.
- Sefer to page C7:15 for wiring diagram and C7:17 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.

Other voltages available, see Section A.

- G Use CEP7-1 overloads only and also backward compatible to CEP7-ED1/EE.
- Plastic Bezel is standard. Pilot Device options include D7-BX_ Base Mounted contact blocks. See page H69 for more information.

CPT not possible with KS7-C2S4 (Q2) enclosure.



Series CAKN7 & CBKN7 with HOA & Pilot Light

Three Phase, Non-Reversing CAKN7 @ 200V AC KWIKstarter 0000

NEMA Size	Max HP 3 Ø	Adjustment Range	with CT7N Overload Relay	D I M
Ē	200V	Ad	Catalog Number	0
	0.5	1.05.0	CAKN7-12-220W-1ECB-P0+1R7	
00	0.75	1.05.0	CAKN7-12-220W-1ECB-P0+1R7	
00	1	3.216	CAKN7-12-220W-1EDB-P0+1R7	Q1
	1.5	3.216	CAKN7-12-220W-1EDB-P0+1R7	
0	2	3.216	CAKN7-16-220W-1EDB-P0+1R7	
0	3	3.216	CAKN7-16-220W-1EDB-P0+1R7	

Three Phase, Non-Reversing CAKN7 @ 230V AC KWIKstarter 0000

NEMA Size	NEMA Size Max HP 3 Ø Adjustment Range		with CEP7 Overload Relay	D I M	
Z	230V	Ad	Catalog Number	0	
	0.5	1.05.0	CAKN7-12-220W-1ECB-P0+1R7		
00	0.75	1.05.0	CAKN7-12-220W-1ECB-P0+1R7		
00	1	1.05.0	CAKN7-12-220W-1ECB-P0+1R7	Q1	
	1.5	3.216	CAKN7-12-220W-1EDB-P0+1R7		
0	2	3.216	CAKN7-16-220W-1EDB-P0+1R7 🦳 🦳		
0	3	3.216	CAKN7-16-220W-1EDB-P0+1R7		

Single Phase, Non-Reversing CBKN7 @ 115V AC KWIKstarter 0000

	NEMA Size	Max HP 3 Ø	Adjustment Range	with CEP7 Overload Relay Catalog Number	D I M
Ì	00	0.25	3.216	CBKN7-12-120-1EDB-P0+1R7	
	00	0.33	3.216	CBKN7-12-120-1EDB-P0+1R7	
		0.5	3.216	CBKN7-16-120-1EDB-P0+1R7	Q1
	0	0.75	3.216	CBKN7-16-120-1EDB-P0+1R7	
		1	5.427	CBKN7-16-120-1EEB-P0+1R7	

Single Phase, Non-Reversing CBKN7 @ 230V AC KWIKstarter 0000

NEMA Size	Max HP 3 Ø	Adjustment Range	with CEP7 Overload Relay	D I M
z	230V	Ac	Catalog Number	0
	0.25	1.05.0	CBKN7-12-220W-1ECB-P0+1R7	
	0.33	1.05.0	CBKN7-12-220W-1ECB-P0+1R7]
00	0.5	3.216	CBKN7-12-220W-1EDB-P0+1R7]
	0.75	3.216	CBKN7-12-220W-1EDB-P0+1R7	Q1
	1	3.216	CBKN7-12-220W-1EDB-P0+1R7]
0	1.5	3.216	CBKN7-16-220W-1EDB-P0+1R7]
0	2	3.216	CBKN7-16-220W-1EDB-P0+1R7	

• This is a factory assembly. The KS7-COS1 (Q1) enclosure does not include knock-outs for field assembly of this starter.

- Uses D7D-P4N_ Red Monolithic "Run" pilot light with LED bulb. Pilot light voltage to match coil voltage for 24, 120, 240 VAC control. Red "Run" Light can be changed for Green. Change +1R7 to +1G7. For example, CAKN7-12-★-◆-P0+1R7 becomes CAKN7-12-★-◆-P0+1G7.
- Uses D7D-SM32x20 Monolothic 3-position selector switch for maintain control, HAND-OFF-AUTO function with legend plate.
- Refer to page C7:10 for wiring and C7:17 for dimensional information. This is a clam-shell enclosure design with wires to cover controls.
- One NO auxilliary for customer use. There is no room for additional auxilliaries.

NEMA Starters

Full Voltage Non-Reversing (FVNR)

- Features include:
- NEMA-sized CAN7 contactor
 CEP7 Solid State Overload Relay
- Red Pilot Light
- Hand-Off-Auto Selector Switch
- Reset pushbutton
- 1-NO auxiliary for customer use
- Non-Metallic Enclosure Type 1/12/4/4X, IP66
- Pre-wired for easy installation
- Ideal for compressors, fans, blowers



KWIKstarter Accessories

Series CAKN7/CBKN7-9...43/CAUK7-9...23

KWIKstarter 9...23A Enclosures with CEP7 Overload Relays o

						-
		For Use With		Environmental		
Component	Description	Contactor	Overload	Approvals	Catalog Number	
	Flush Green START / Extended Red STOP- Mechanical interface auxiliary contact (KS7-PCK) included in enclosure.	CA7-923	CEP7-1D 😡	cUL Type 1/12/4/4x IEC IP66	KS7-C0S4	
E STERAT.	Blue RESET Only	CA7-923	CEP7-1B 🛛	cUL Type 1/12/4/4x IEC IP66	KS7-COS1	

KWIKstarter Enclosures for use with CA7 Contactors and Overload Relays oo

Component	Description	For Use With Contactor Overload		Environmental Approvals	Catalog Number	
	Enclosure for KWIKstarter @ CAK7/CBK7-3043 CAK7/CBR7-30E43E	CA7-3043 CA7-30E43E	CEP7-1D 💿	CUL Type 1/12/4/4x IEC IP66	KS7-C2S4	
Statyar.	Enclosure for Reversing KWIKstarter ⁽²⁾ CAUK7-923 CAUK7-9E23E	CAU7-923 CAU7-9E23E	CEP7-1B ⊕	cUL Type 1/12/4/4x IEC IP66	KS7-C0S4R	

- KWIKstarters are only designed to accommodate CA7-9...43 contactors with CEP7 Solid State Overload Relays. If ordering components, select contactor from Section A and overload relay from Section B in this catalog.
- KWIKstarter enclosure KS7-C2S4 are designed to fit CA7-30(E)...43(E) contactors with CEP7 Overload Relays. CT7N Thermal Overloads can not be substituted.
- KWIKstarter enclosure KS7-C054R are designed to fit CAU7-9(E)...23(E) reversing contactors with CEP7 Overload Relays. CT7N Thermal Overloads can not be substituted.
- KS7-C2S4 and KS7-C0S4R are supplied with two 22mm holes for Pilot Devices. A Reset is required and one additional pilot device kit from page C7:13 must be selected. Use of a CPT is not possible.
- KS7-C_ series B enclosure are compatible to 3rd gen CEP7-1 and 2nd gen CEP7-ED1/ EE. KS7-C_ series A enclosures (obsolete) are compatible to 2nd gen CEP7-ED1/EE.



KWIKstarter Accessories

Series CAKN7 & CBKN7

KWIKstarter Components with CT7N or CEP7 Overload Relays (for use with KS7-C0S1/KS7-C0S4)

Component	Description	For Use With	Catalog Number
I Q J	Start - Contact kit Specially designed NO auxiliary; mechanically inter- faces with the START button. Mounts on right side. A KS7-PCK is included in every KS7-COS4 enclosure.	KS7-COS4 (Replacement Part)	КЅ7-РСК
ÎÎ	Pushbutton Latch - For maintain contact control (2-wire control)	KS7-COS4	KS7-PLA
	Neutral Terminal	KS7-COS1 KS7-COS4	KŜ7-PNT
Ť Ĺ	Grounding Kit (for use with metal conduit)	All Kwikstarter enclosures	KS7-GR1

KWIKstarter Pilot Device Kits (for use with KS7-C2S4/KS7-C0S4R) •

		For Use With		ct Blocks cluded	
Kits	Description	Enclosure	NO	NC	Catalog Number
	Multi-Function Pushbutton kit Non-illuminated				
	START-STOP I-O	KS7-C2S4 Type 1, 12, 4, 4X	1	1	KS7-P3U KS7-P4U
	FOR-STOP-REV UP-STOP-DOWN OPEN-STOP-CLOSE	KS7-C0S4R Type 1, 12, 4, 4X	2	1	KS7-P3U-REV KS7-P4U-REV KS7-P5U-REV
	Selector switch kits Non-illuminated, includes legend plate				
	ON-OFF 2-Position	KS7-C2S4 Type 1, 12, 4, 4X	1	-	KS7-P6
	FOR-OFF-REV 3-Position UP-OFF-DOWN 3-Position OPEN-OFF-CLOSE 3-Position	KS7-C0S4R Type 1, 12, 4, 4X	2	-	KS7-P6-REV KS7-P7-REV KS7-P8-REV
R	Reset Pushbutton, Blue Plastic push button, flush operator with Blue Cap and R text	KS7-C2S4 KS7-C0S4	Blue	Plastic with Cap and hite "R"	D7P-F611 @

• Plastic bezel is standard. Pilot Device Kits include D7-BX_ Base Mounted contact blocks. See page H69 for more information.

D7P-R611 and CEP7-1ERA can not be used with KS7-C2S4 or KS7-C0S4R. See Section H for more information.



Series CAKN7 & CBKN7

KWIKstarters with CEP7 Solid State Overload Relay o

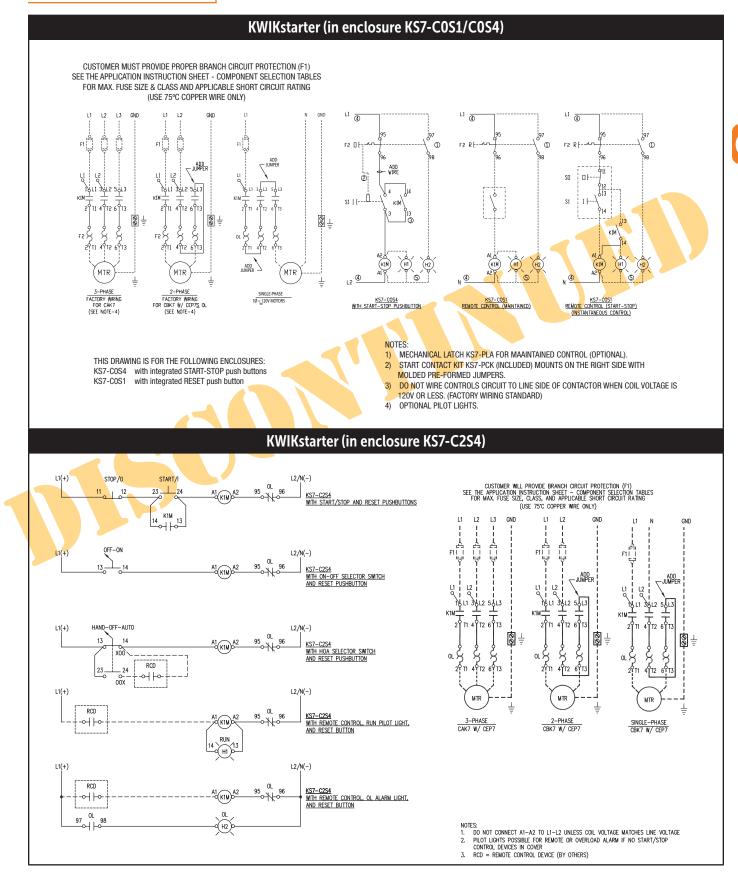
	J					
For use with KWIKstarter	Amp Range	Overload Relay Code (♠)	Catalog Number (of Overload Relay used)			
1-Phase &	3-Phase / Ma	anual Reset /	Class 10 or 20			
	0.10.5	1EAB	CEP7-1EEAB			
	0.21.0	1EBB	CEP7-1EEBB			
CAKN7-923 CAKN7-9E23E	1.05.0	1ECB	CEP7-1EECB			
CAININ/-9LZJL	3.216	1EDB	CEP7-1EEDB			
	5.427	1EEB	CEP7-1EEEB			
1-Phase & 3-I	Phase / Auto	or Manual Res	et / Class 1030			
	0.10.5	FAB	CEP7-1EFAB			
CAKN7-923	0.21.0	FBB	CEP7-1EFBB			
CAKN7-9E23E	1.05.0	FCB	CEP7-1EFCB			
	3.216	FDB	CEP7-1EFDB			
	5.427	FEB	CEP7-1EFEB			

NEMA Starters

• CEP7 Overloads are available for use in KWIKStarters if the premium features are required (see Section B).

Wiring Diagrams

NEMA KWIKstarters



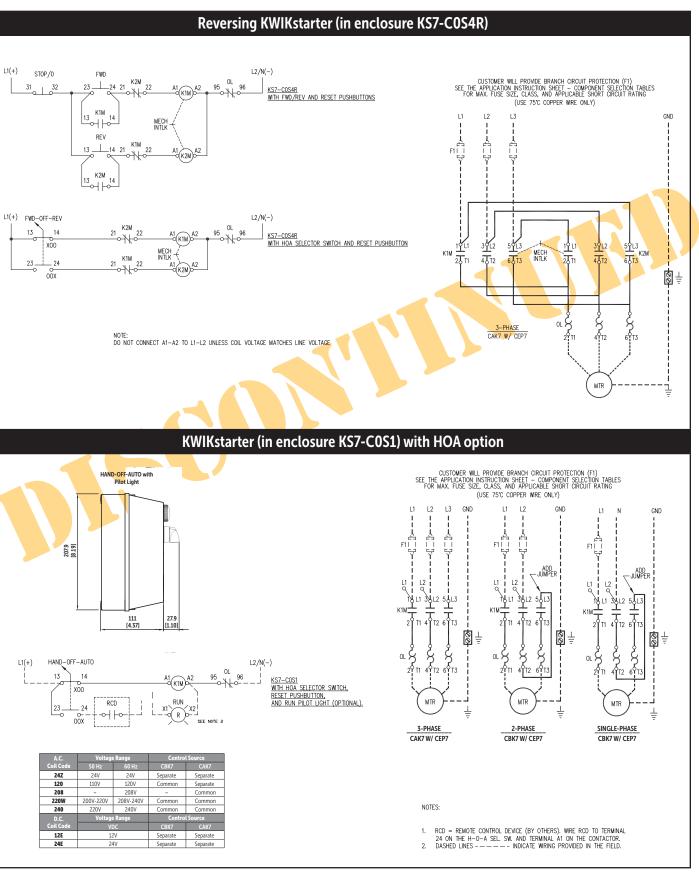
C7

sprecher+ schuh



Wiring Diagrams

NEMA KWIKstarters



sprecher+ schuh

Dimensions

NEMA KWIKstarters

