KWIKstarters

KWIKstarters

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.



Start-Stop or Reset only



Hand-Off-Auto with Pilot Light



Emergency Stop



Multi-Function



Forward-Stop-Reverse options



Combination Kwikstarters

CX7 KWIKstarters

Type E/F Combination Motor Controllers



KTA9 can be applied in combination with a CA7 contactor for remote control and an enclosure with matching environmentally approved thru-the-door handle disconnect mechanism to meet all requirements for a Construction Type E or F Combination Starter. This selection of individual Combination starters are smaller and are less expensive than Classic Construction Type A (Fusible), or Type C (Thermal-magnetic Molded Case Circuit Breaker), as offered in the following pages.

Sprecher + Schuh has developed a KWIKStarter version of the Combination Motor Controller which can be easily field assembled or can be purchased as a factory assembly. For details and catalog number selection on these economical combination starter alternatives turn to page F98.





Why Type E/F?

NEC430-53.C.1 defines that the shortcircuit protection of a single motor branch circuit shall be provided by a set of fuses or a thermal-magnetic molded case circuit breaker. Alternatively NEC 430-53.C.6 also permits the use of a Self-protected Combination Motor Controller can be used to not only provide short-circuit protection for a single motor branch circuit but also provide a means of disconnect and overload protection. Selfprotected Combination motor controllers like KTA9 can be combined with CA7, providing a coil for cover control or remote operation. This results in a Construction Type E or Type F (based on selection depending on published UL ratings) Combination starter per UL508. For details of UL, NEC and CSA application standards and rules please see our online white paper, Applying KT9 Motor Controllers.





KWIKstarters with CEP7 Overload Relays o

Cover Control/		Мах	timum H	lorsepo	wer		Total	Aux.	cUL Approved- Type 1/12/4/4X	sion e
Enclosure (KS7-COS1/COS4)	Sing	le Ø		Thre	ee Ø			tacts alled	IP66	Dimension Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	3
		K	WIKsta	rter with	n Start a	& Raise	d Stop	46		
00	1/2	1 1/2	~	~	~	~	10	0	CBK7-9- * -♦-P2	Q1
é	~	~	2	2	5	7 1/2		0	CAK7-9- * -◆-P2	G
	1/2	2	~	~	~	~	10	0	CBK7-12- * -♦-P2	Q1
	~	~	3	3	7 1/2	10			CAK7-12- * -♦-P2	
	1	3	~	~	~	~	10	0	CBK7-16- * -◆-P2	Q1
-	~	~	5	5	10	15			CAK7-16- * -◆-P2	
Lanes.	2	3	~	~	~	~	10	0	CBK7-23- * -◆-P2	Q1
	~	~	5	7 1/2	15	15			CAK7-23- * -◆-P2	
				KWIKs	tarter w	ith Res	et	1		
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9- * -◆-P0	Q1
	~	~	2	2	5	7 1/2			CAK7-9-*- - P0	G
	1/2	2	~	~	~	~	4	0	CBK7-12- * -◆-P0	Q1
	~	~	3	3	7 1/2	10	1	1 0	CAK7-12- * -◆-P0	u u
	1	3	~	~	~	~			CBK7-16- ≭ -◆-P0	
	~	~	5	5	10	15	1	1 0	CAK7-16- * -◆-P0	Q1
	2	3	~	~	~	~			CBK7-23- * -◆-P0	
	~	~	5	7 1/2	15	15	1	0	CAK7-23- * -◆-P0	Q1

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	200V-220V	208V-240V	Common	Common
277	240V	277V	Common	~
415	400-415V	~	~	Common
480	440V	480V	~	Common
600	550V	600V	~	Common

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	See this page
Replace (�) with O/L Relay	See page C30

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C30.

- 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.
- **③** Refer to page C33 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.
- G Other voltages available, see Section A.



Series CAK7 & CBK7 - Electronic DC Coils

KWIKstarters

KWIKstarters with CEP7 Overload Relays 000

Cover Control/		Max	cimum I	lorsepo	wer		Total	Διιχ	cUL Approved-	uo	
Enclosure (KS7-COS1/COS4)	Sing	jle Ø		Thre	ee Ø		Contacts Installed		Type 1/12/4/4X IP66	Dimension Code	
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0	
			KWIKst	arter wi	ith Stari	& Rais	ed Sto	p 46			
	1/2	1 1/2	~	~	~	~	10	0	CBK7-9E- * -◆-P2	Q1	
	~	~	2	2	5	7 1/2	10	0	CAK7-9E- * -◆-P2	U.I	
	1/2	2	~	~	~	~	10	0	CBK7-12E- * -◆-P2	Q1	
•	~	~	3	3	7 1/2	10		0	CAK7-12E- * -◆-P2	Q I	
	1	3	~	~	~	~	1.0	10	0	CBK7-16E- * -◆-P2	Q1
	~	~	5	5	10	15			CAK7-16E- * -◆-P2	GI	
Long Long	2	3	~	~	~	~	10	0	CBK7-23E- ≭ -♦-P2	Q1	
	~	~	5	7 1/2	15	15		U	CAK7-23E- * -♦-P2	G	
				KWIK	(starter	with Re	set				
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9E- * -◆-P0	Q1	
	~	~	2	2	5	7 1/2		0	CAK7-9E- * -◆-P0	QI	
	1/2	2	~	~	~	~	1	0	CBK7-12E- * -◆-P0	Q1	
	~	~	3	3	7 1/2	10	I		CAK7-12E- * -◆-P0	G	
	1	3	~	~	~	~	1	0	CBK7-16E- * -◆-P0	Q1	
	~	~	5	5	10	15			CAK7-16E- * -◆-P0		
	2	3	~	~	~	~	1	0	CBK7-23E- * -◆-P0	Q1	
	~	~	5	7 1/2	15	15		U	CAK7-23E- * -◆-P0		

Coil Codes 🖸

DC Coil Codes	Voltage
12E	12V
24E	24V

Ordering Instructions

Specify Catalog Number				
Replace (★) with Coil Code Replace (♦) with O/L Relay	See this page See page C30			
Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C30.				

- 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.
 Refer to page C33 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.
- CA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils



Series CAK7 & CBK7 - AC Coils

KWIKstarters with CEP7 Overload Relays O

Enclosure		Max	cimum l	Horsepa	wer		Total	Aux.	cUL Approved-	sion e		
(KS7-C2S4)	Sing	jle Ø		Thre	ee Ø		Contacts Installed				Type 1/12/4/4X IP66	Dimension Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0		
					KWIK	(starters	s with ,	AC Coi	I			
٢ (6	2	5	~	~	~	~	1	0	CBK7-30-*-◆-P▼	Q2		
sprecher+	~	~	7-1/2	10	20	25			CAK7-30- * - ∳ -P▼	~_		
R	3	5	~	~	~	~	1	0	CBK7-37- * -◆-P▼	Q2		
	~	~	10	10	25	30			CAK7-37- * -◆-P▼			
	3	7-1/2	~	~	~	~	1	0	CBK7-43- * -◆-P▼	Q2		
	~	~	10	15	30	30			CAK7-43- * - ◆ -P▼			

Replace ◆ with one of the following Overload Relays

For use with KWIKstarter	Amp Range	Overload Relay Code (◆)	Catalog No. (of Overload Relay used)			
1-Phase &	a 3-Phase	/ Manual Rese	t / Class 10 or 20			
CAK7-3043	5.427	1EED	CEP7-1EEED			
UAR7-3043	1155	1EFD	CEP7-1EEFD			
1-Phase & 3-Phase / Auto or Manual Reset / Class 1030 *						
CAK7-3043	5.427	FED	CEP7-1EFED			
	1155	FFD	CEP7-1EFFD			

* List Price Adder applies

Pilot Device Options (includes reset) @0

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

* List Price Adder applies

Coil Codes (*) 🕉

A.C.	Voltag	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

Ordering Instructions

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

• 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.

- Refer to page C31 for wiring diagram and C34 for dimensional information.
- 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, 120V or 240V AC only.
- O CPT not possible with KS7-C2S4 (Q2) enclosure.



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. Pilot lights are 240 VAC maximum.



Series CAK7 & CBK7 - Electronic DC Coils

KWIKstarters

KWIKstarters with CEP7 Overload Relays O

	Maximum Horsepower							Aux.	cUL Approved-	Dimension Code
Enclosure (KS7-C2S4)	Sing	jle Ø		Thre	ee Ø			tacts alled		
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	6
				KW	lKstarte	ers with	Electr	onic D	C Coil 🔮	
۹ ۲	2	5	~	~	~	~	1	0	CBK7-30E- * -◆-P▼	Q2
sprecher+	~	~	7-1/2	10	20	25			CAK7-30E- *- ◆-P▼	
e	3	5	~	~	~	~	1	0	CBK7-37E- * - ◆ -P▼	Q2
	~	~	10	10	25	30		0	CAK7-37E- *- ◆-P▼	QZ
	3	7-1/2	~	~	~	~	1	0	CBK7-43E- *- ◆-P▼	Q2
	~	~	10	15	30	30			CAK7-43E- *- ◆-P▼	

Replace ◆ with one of the following Overload Relays

For use with KWIKstarter	Amp Range	Overload Relay Code (◆)	Catalog No. (of Overload Relay used)				
1-Phase &	3-Phase /	Manual Reset	/ Class 10 or 20				
CAK7-3043	5.427	1EED	CEP7-1EEED				
UAR7-3043	1155	1EFD	CEP7-1EEFD				
1-Phase & 3-Phase / Auto or Manual Reset / Class 1030 *							
CAK7-3043	5.427	FED	CEP7-1EFED				
UAR/-3043	1155	FFD	CEP7-1EFFD				

* List Price Adder applies

Pilot Device Options (includes reset) @0

Pushbutton Description	Replace ▼ in catalog number with
START-STOP Multi-function (shown)	30
I-O Multi-function	40
OFF-ON 2-Position Selector switch	6
Pilot Light Red (LED) with START-STOP Multi- function *	1R3U
Pilot Light Red (LED) with I-0 Multi-function *	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

^{*} List Price Adder applies

Coil Codes 🙆

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

Ordering Instructions

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

• 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.
- Refer to page C31 for wiring diagram and C34 for dimensional information.
- CA7-9E...55E with electronic coils are not interchangeable with non-electronic DC or AC coils.
- One and only one Pilot Device option must be selected.
- $\ensuremath{\textcircled{O}}$ CPT not possible with KS7-C2S4 (Q2) enclosure.

KWIKstarters



Series CAK7 & CBK7 - AC or DC with H-O-A

KWIKstarters

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

WINSTALLETS WITH CELT OVERTIAL HELAYS WITH HOURA AND EIGHT DEGO											
Cover Control/ Enclosure	Maximum Horsepower Single Ø Three Ø				Cont	Aux. tacts alled	cUL Approved- Type 1/12/4/4X IP66	Dim Code			
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	4	
	KWIKstarter with Reset and H-O-A Selector Switch and Light with AC Coil										
	1/2	1 1/2	~	~	~	~		_	CBK7-9- * -◆-P0+1R7		
	~	~	2	2	5	7 1/2	1	0	CAK7-9- * -◆-P0+1R7	Q1	
	1/2	2	~	~	~	~	1	0	CBK7-12- * -◆-P0+1R7	Q1	
	~	~	3	3	7 1/2	10	I		CAK7-12-*-+P0+1R7		
Con Con	1	3	~	~	~	~	1	0	CBK7-16- * -◆-P0+1R7	Q1	
	~	~	5	5	10	15	I	0	CAK7-16- * -◆-P0+1R7	U I	
355***	2	3	~	~	~	~	1	0	CBK7-23- * -◆-P0+1R7	Q1	
	~	~	5	7 1/2	15	15	I	U	CAK7-23- * -◆-P0+1R7	QI	
	KW	lKstarte	er with F	Reset ar	nd H-O-	A Selec	tor Sw	itch ar	d Light with Electronic DC Co	il 6	
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9E- * -◆-P0+1R7	Q1	
	~	~	2	2	5	7 1/2	I		CAK7-9E- * -◆-P0+1R7		
	1/2	2	~	~	~	~	1	0	CBK7-12E- * -◆-P0+1R7	Q1	
	~	~	3	3	7 1/2	10	I		CAK7-12E- * -◆-P0+1R7		
	1	3	~	~	~	~	1	0	CBK7-16E- * -◆-P0+1R7	Q1	
	~	~	5	5	10	15	I	U	CAK7-16E- * -◆-P0+1R7	QI	
	2	3	~	~	~	~	1	0	CBK7-23E- * -◆-P0+1R7	Q1	
	~	~	5	7 1/2	15	15	I	U	CAK7-23E- * -◆-P0+1R7	U.I	

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
D.C.	Voltage	Range		
Coil Code	VE)C		
12E	12	2V		
24E	24	1V		

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.
- 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, CAK7-9-*--P0+1R7 becomes CAK7-9-*---P0+1G7.
- Our Uses D7D-SM32x20 Monolothic 3-position selector switch for maintain control, HAND-OFF-AUTO function with legend plate.
- Refer to page C32 for wiring and 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.
- CA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils.

Specify Catalog Number	
Replace (★) with Coil Code Replace (♦) with O/L Relay	See this page See page C30

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C30.

KWIKstarters

C20



Series CAK7 & CBK7 - AC with E-Stop

KWIKstarters with CEP7 Overload Relays with I-O Multifunction and E-Stop 0000

Cover Control/ Enclosure	Maximum Horsepower Single Ø Three Ø						Total Aux. Contacts Installed		cUL Approved- Type 1/12/4/4X IP66	Dim Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	4
		KWIKs	tarter v	vith Res	et, Muli	tifunctio	on I-O F	Pushbu	tton and E-Stop with AC Coil	
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9- * -◆-P0+4U-9	Q1
	~	~	2	2	5	7 1/2		CAK7-9- *- ◆-P0+4U-9		
	1/2	2	~	~	~	~	4	0	CBK7-12- * -◆-P0+4U-9	Q1
	~	~	3	3	7 1/2	10	'		CAK7-12- * -◆-P0+4U-9	
	1	3	~	~	~	~	4	0	CBK7-16- * -◆-P0+4U-9	Q1
	~	~	5	5	10	15	1		CAK7-16- * -◆-P0+4U-9	
	2	3	~	~	~	~	1	0	CBK7-23- * -◆-P0+4U-9	Q1
	~	~	5	7 1/2	15	15			CAK7-23- * -◆-P0+4U-9	

KWIKstarters

Coil Codes

A.C.	Voltage	Range	Control	Source
Coil Code	50 Hz	50 Hz 60 Hz		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

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).

Ordering Instructions

Specify Catalog Number				
Replace (★) with Coil Code Replace (♦) with O/L Relay	See this page See page C30			
Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate Relays or CEP7 Solid State Overload Relays. Select O/L Relay Code from page C30.				

- This is a factory assembly. The KS7-C0S1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- Uses D7P-U2EFFEPX11 Two-Position Multifunction push button with legend I/O.
 Uses D7P-MT44PX01 Emergency Stop Push Button.
- Prefer to page C33 for wiring and dimensional information. This is a clam-shell enclosure design with wires to cover controls.
- There is no room for additional auxilliaries.

Discount Schedule B7

Series CAUK7-9...23 - AC Coils



Three Phase Reversing KWIKstarters with CEP7 Overload Relays O

Enclosure (KS7-COS4R)	Maximum Horsepower Three Ø				Auxiliary Contacts per Contactor 7		cUL Approved- Type 1/12/4/4X IP66	
	200V	230V	460V	575V	NO	NC	Catalog Number	
		FVR 3-Phase with AC Coil						
S aprocher+	2	2	5	7 1/2	1	1	CAUK7-9- *- ◆-P▼	
	3	3	7 1/2	10	1	1	CAUK7-12- *- ◆-P▼	
•	5	5	10	15	1	1	CAUK7-16- *- ◆-P▼	
	5	7 1/2	15	15	1	1	CAUK7-23- *- ◆-P▼	



KWIKstarters

Coil Codes (*) 00

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	1	~	Common	
480	440V	480V	~	Common	
600	550V	600V	~	Common	

Pilot Device Options (includes reset) @0

Pushbutton Description	Replace ▼ in catalog number with
FOR-STOP-REV Multi-function (shown)	3U
UP-STOP-DOWN Multi-function	40
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) *

Description (supplied on each contactor)	Add to end of catalog number
Electronic Interface	-2JE
Surge Suppressor RD	-20
Surge Suppressor Varistor	-2V

* List Price Adder applies

Ordering Instructions

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

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.

Dimension Code

6

Q3

Q3

Q3

Q3

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	Overload Relay Code (♦)	Catalog Number (of Overload Relay used)
1-Phase & 3	3-Phase /	Manual Rese	t / Class 10 or 20
	0.10.5	1EAB	CEP7-1EEAB
CAUK7-923	0.21.0	1EBB	CEP7-1EEBB
CAUK7-9E23E	1.05.0	1ECB	CEP7-1EECB
	3.216	1EDB	CEP7-1EEDB
	5.427	1EEB	CEP7-1EEEB
1-Phase & 3-Ph	ase / Auto	or Manual R	eset / Class 1030 *
	0.10.5	FAB	CEP7-1EFAB
0.011/7 0.00	0.21.0	FBB	CEP7-1EFBB
CAUK7-923 CAUK7-9E23E	1.05.0	FCB	CEP7-1EFCB
	3.216	FDB	CEP7-1EFDB
	5.427	FEB	CEP7-1EFEB

Replace \blacklozenge with one of the following Overload Relays

* List Price Adder applies

• 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.
- Refer to page C32 for wiring diagram and C34 for dimensional information.
- Other voltages available, see Section A.
- One Pilot Device option must be selected. Blanks are not available. If Pilot Light option is selected then coil voltage must be 24V, 120V or 240V AC only.
- CPT not possible with KS7-C0S4R (Q3) enclosure.
- One N.C. auxiliary contact is used for electrical interlocking. On CAUK7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat# CM7-02).

Discount Schedule B7

Series CAUK7-9...23 - Electronic DC Coils

Three Phase Reversing KWIKstarters with CEP7 Overload Relays O

Enclosure (KS7-C0S4R)			tacts er	CUL Approved- Type 1/12/4/4X IP66	Dimen- sion Code			
	200V	230V	460V	575V	NO	NC	Catalog Number	•
(B)			F	VR 3-P	hase w	ith Ele	ctronic DC Coil	
sprecher+ schuth	2	2	5	7 1/2	1	1	CAUK7-9E- *- ◆-P▼	Q3
	3	3	7 1/2	10	1	1	CAUK7-12E- *- ◆-P▼	Q3
	5	5	10	15	1	1	CAUK7-16E- *- ◆-P▼	Q3
	5	7 1/2	15	15	1	1	CAUK7-23E- *- ◆-P▼	Q3



Coil Codes 🙆

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

sprecher+ schuh

Pilot Device Options (includes reset) @0

Pushbutton Description	Replace ▼ in catalog number with
FOR-STOP-REV Multi-function (shown)	3U
UP-STOP-DOWN Multi-function	40
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) *

Add to end of catalog number
-2JE
-20
-2V

* List Price adder applies

Ordering Instructions

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

Replace ◆ with one of the following Overload Relays

1					
For use with KWIKstarter	Amp Range	Overload Relay Code (♠)	Catalog Number (of Overload Relay used)		
1-Phase	& 3-Phase	/ Manual Re	eset / Class 10 or 20		
	0.10.5	1EAB	CEP7-1EEAB		
CAUK7-923	0.21.0	1EBB	CEP7-1EEBB		
CAUK7-9E23E	1.05.0	1ECB	CEP7-1EECB		
	3.216	1EDB	CEP7-1EEDB		
	5.427	1EEB	CEP7-1EEEB		
1-Phase & 3-	Phase / A	uto or Manua	l Reset / Class 1030 *		
	0.10.5	FAB	CEP7-1EFAB		
0.411//7 0 00	0.21.0	FBB	CEP7-1EFBB		
CAUK7-923 CAUK7-9E23E	1.05.0	FCB	CEP7-1EFCB		
0A0IN-9L29L	3.216	FDB	CEP7-1EFDB		
	5.427	FEB	CEP7-1EFEB		

* List Price adder applies

- 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.
- Refer to page C32 for wiring diagram and C34 for dimensional information.
- CA7-9E...55E with electronic coils are not interchangeable with non-electronic DC or AC coils.
- One Pilot Device option must be selected. Blanks are not available. If Pilot Light option is selected then coil voltage must be 24V DC only.
- CPT not possible with KS7-C0S4R (Q3) enclosure.
- One N.C. auxiliary contact is used for electrical interlocking. On CAUK7 reversing starters, the N.C. contact comes from the Mechanical/Electrical Interlock unit (Cat# CM7-02).

Discount Schedule B7



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										070
									CBKN7-16- * -◆-P0	0396
									CAKHEO PO 31	P
							et with	Elect	UN TOILETTU	
						~	h2	D ₀	CBKN	
					2	9 D		in	`AI7-12E- *- ◆-P0	
			~	-ic	Do	SC	99		CAKN7-16E-* AC Coil CBKN7-12-* CAKN7-12-* CBKN7-16-* CAKN7-01-* CAKN7-01-* CAKN7-01-* CBKN7-16E-* CBKN7-16E-* CAKN7-16E-* CAKN7-16E-* CAKN7-16E-*	
			3	115		C ⁵				

			-nAP	Source
		60 Hz		
		AN V	Separate	
	110V			
208	C.P.C.	208V		
	200-220V			



Series CAKN7 & CBKN7 - AC and Electronic DC Coils

NEMA KWIKstarters with CT7N or CEP7 Overload Relays with H-O-A and Light 00000

									h and Light with Electronic DC Coil C CBKN7-12E-*	1		
									CAKN7-12E-*			
						~	n	01	enting at h			
				3	90	43	10	Ś	CAKN7-16E-*			

Coil Codes Ø

			Conte	191.
		60 Hz		CAK7
			Separate	
	110V			
	- ne	208V		
22 0	20V-120V			
240	220V			

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

- This is a factory assembly. The KS7-C0S1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- Uses D7D-SM32x20 Monolothic 3-position selector switch for maintain control, HAND-OFF-AUTO function with legend plate.
- Refer to page C32 for wiring and dimensional information. This is a clam-shell enclosure design with wires to cover controls.
- **•** Uses CT7N or CEP7-ED/CEP7-EE overload.
- **One NO auxilliary for customer use. There is no room for additional auxilliaries.**
- CAN7-12E...16E with electronic coils are not interchangeable with non-electronic DC or AC coils.

nt Schedule B8



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				36E	
				485 0	
			Common	c Dos	
			111	22UE - C	
			Common	.46L	
			Conterin		
anlaco 4	.96	new h	Overload	s pag arters Relays	

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2v and pilot de carried le constraint (1) and thouse our individual (1) and thouse our individual (1) and summer of the fill of th Beetion ine se source per the table. Pilot lights are 240 VAC maximum.

For use with KWIKstart- er	Amp Range	





									in the contraction in the connection of the conn	
						source (🚺		e table.	NO C	
							Senel	Coils and p	bil ? Levites	in the control circuit
						24V	ON from	ANU	source and	
						W2S	Sources	the table.		
					220E 0	2 V 250V	n St			
				Common	n24	lo aci	10.			
			~	<i>H</i>HIS	Y	560.				
					1913					
		ns (il	EN A	Stal						
		W.								
00	6 110									
Pushbasa	Scription									
UK-510P-1	Voltage Range Control Source 50 Hz 60 Hz CBK7 CAK7 24V 24V Separate Separate 110V 120V Common Separate 200-220V 208-240V Common Common 240V 277V Common Common 400-415V ~ ~ Common 400-415V ~ ~ Common 440V 480V ~ Common 550V 600V ~ Common Vice Options (in For use with Witz-fiption Replace ♥ in catalog number with 3U U CAUKN7-1216 OWN Multi-function 4U 4U Euler Euler									

urce and will not be connected to the line

Replace \blacklozenge with one of the following Overload Relays



KWIKstarters

KWIKstarter Accessories

Series CAK7/CBK7-30...43/CAUK7-9...23

KWIKstarter 9...23A Enclosures with CT7N or CEP7 Overload Relays OO

		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	CT7N CEP7-1B ⊚	cUL Type 1/12/4/4x IEC IP66	KS7-C0S4
I STOR	Blue RESET Only	CA7-923	ст7N СЕР7-1В о	cUL Type 1/12/4/4x IEC IP66	KS7-COS1

KWIKstarter Enclosures for use with CA7 Contactors and Overload Relays OG

		For	Use With	Environmental	
Component	Description	Contactor	Overload	Approvals	Catalog Number
Breaker -	Enclosure for KWIKstarter CAK7/CBK7-3043 CAK7/CBK7-30E43E	CA7-3043 CA7-30E43E	CEP7-1D 🗿	cUL Type 1/12/4/4x IEC IP66	KS7-C2S4
Brender -	Enclosure for Reversing KWIKstarter CAUK7-923 CAUK7-9E23E	CAU7-923 CAU7-9E23E	CEP7-1B 🛛	cUL Type 1/12/4/4x IEC IP66	KS7-COS4R

- KWIKstarters are only designed to accommodate CA7-9...43 contactors with CT7N Thermal Overload Relays or CEP7 Solid State Overload Relays. If ordering components, select contactor from Section A and overload relay from Section B in this catalog.
- KS7-C0S4 and KS7-C0S1 may be used with either CEP7 or CT7N (field interchangeable).
- 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-C0S4R 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 C29 must be selected. Use of a CPT is not possible.
- KS7-C_ Series B enclosures 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 CAK7 & CBK7

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

Component	Description	For Use With	Catalog Number
I QI	Start - Contact kit Specially designed NO auxiliary; mechanically interfaces with the START button. Mounts on right side. A KS7-PCK is included in every KS7-COS4 enclosure.	KS7-C0S4 (Replacement Part)	KS7-PCK
	Pushbutton Latch - For maintain contact control (2-wire control)	KS7-C0S4	KS7-PLA
	Neutral Terminal	KS7-C0S1 KS7-C0S4	KS7-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) ①

		For Use With		ct Blocks cluded	
Kits	Description	Enclosure	NO	NC	Catalog Number
6	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	Black F Blue Ca White '		D7P-F611 0

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.



KWIKstarters

KWIKstarters

Series CAK7 & CBK7

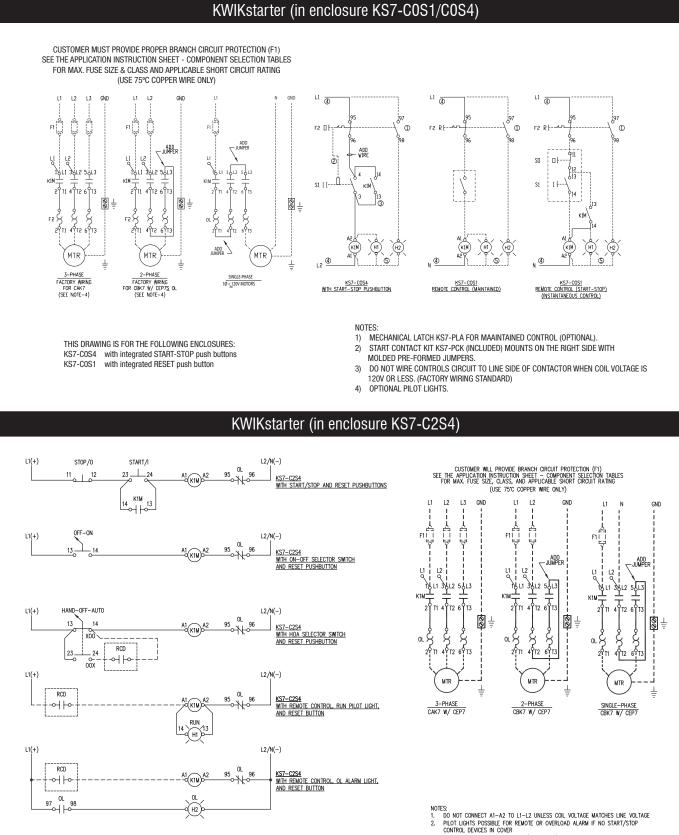
KWIKstarters with CEP7 Solid State Overload Relay o

For use with KWIKstarter	Amp Range	Overload Relay Code (♠)	Catalog Number (of Overload Relay used)
1-Phase & 3	-Phase / Ma	nual Reset /	Class 10 or 20
	0.10.5	1EAB	CEP7-1EEAB
0.411/7 0 00	0.21.0	1EBB	CEP7-1EEBB
CAUK7-923 CAUK7-9E23E	1.05.0	1ECB	CEP7-1EECB
0A010-32232	3.216	1EDB	CEP7-1EEDB
	5.427	1EEB	CEP7-1EEEB
1-Phase & 3-Phase 1-Phase 1-Phase 2-Phase 2-Ph	ase / Auto o	r Manual Res	et / Class 1030
	0.10.5	FAB	CEP7-1EFAB
CAUK7-923	0.21.0	FBB	CEP7-1EFBB
CAUK7-9E23E	1.05.0	FCB	CEP7-1EFCB
	3.216	FDB	CEP7-1EFDB
	5.427	FEB	CEP7-1EFEB

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

Wiring Diagrams

KWIKstarters



RCD = REMOTE CONTROL DEVICE (BY OTHERS)

KWIKstarters

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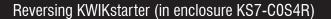


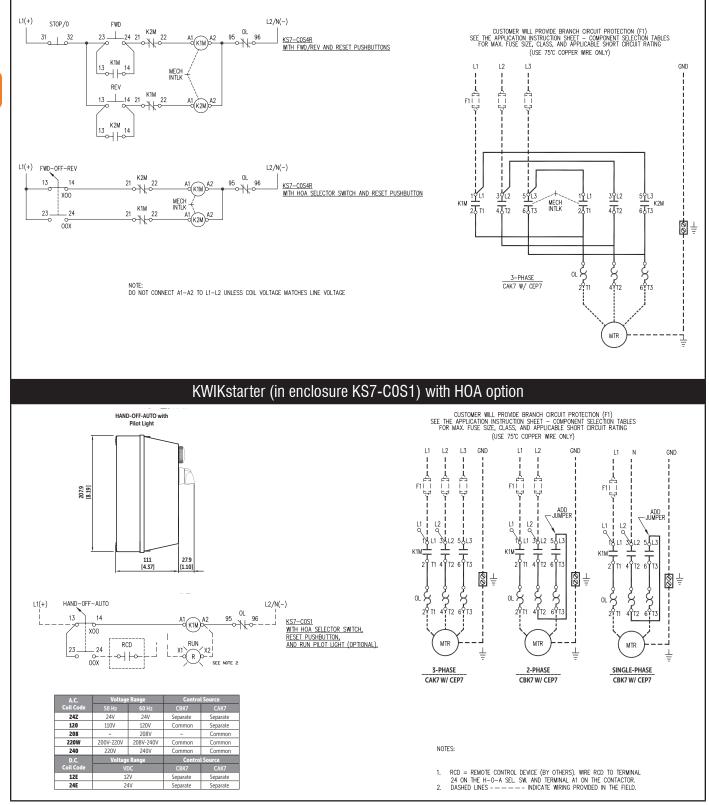
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KWIKstarters

Wiring Diagrams

KWIKstarters





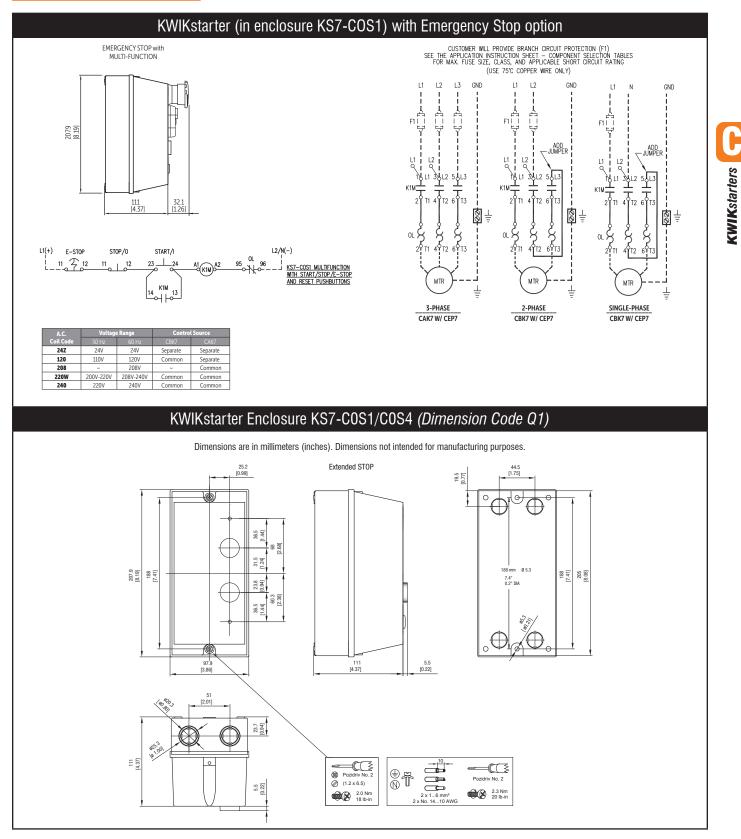
C32



Dimensions

KWIKstarters

F



SSNA2018



Dimensions

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