KWIKstarters

Preassembled or build from stock – Easy, fast, economical enclosed starters for applications up to 30HP Sprecher + Schuh offers a broad selection of pre-assembled or "build-from-stock" starters housed in a high impact, non-metallic, 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 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.

Solid state overload options

KWIKstarters, sizes 9 to 23 amps, are supplied with Sprecher+Schuh's CEP7 solid state overload relay. The CEP7 overload is also standard on larger sizes (sizes 30 to 43 amps). 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.



KWlKstarters are equipped with our advanced CEP7 Solid State Overload Relay as a standard





Start-Stop or Reset only



Hand-Off-Auto with Pilot Light



Emergency Stop



Multi-Function



Forward-Stop-Reverse options



Combination Kwikstarters

KWIKstarters with CEP7 Overload Relays o

C C	Maximum Horsepower						Total Aur		cUL Approved-	no
Cover Control/ Enclosure (KS7-C0S1/C0S4)	Sing	le Ø		Thre	ee Ø		Total Aux. Contacts Installed		Type İ <i>İ</i> 12/4/4X IP66	Dimension Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	8
			KWIKsta	arter wit	h Start	Raised	Stop	4 6		
	1/2	11/2	~	~	~	~	10	0	CBK7-9- * -◆-P2	Q1
9	~	~	2	2	5	7 1/2	10	0	CAK7-9- * -◆-P2	GI
mus.	1/2	2	~	~	~	~	10	0	CBK7-12- * -◆-P2	Q1
	~	~	3	3	7 1/2	10			CAK7-12- * -◆-P2	- Q.1
	1	3	~	~	~	~	10	0	CBK7-16- * -◆-P2	Q1
	~	~	5	5	10	15		Ů	CAK7-16- * -◆-P2	
10.00	2	3	~	~	~	~	10	0	CBK7-23- * -◆-P2	Q1
	~	~	5	71/2	15	15	10	0	CAK7-23-*-◆-P2	Q.I
				KWIKs	tarter w	ith Rese	et			
	1/2	11/2	~	~	~	~			CBK7-9- * -◆-P0	04
	~	~	2	2	5	71/2	1	0	CAK7-9-*-◆-P0	Q1
::::::::::::::::::::::::::::::::::::::	1/2	2	~	~	~	~			CBK7-12-*-◆-P0	
	~	~	3	3	71/2	10	1	0	CAK7-12-*-◆-P0	Q1
	1	3	~	~	~	~			CBK7-16- * -◆-P0	
	~ ~ 1	~	5	5	10	15	1	0	CAK7-16- * -◆-P0	Q1
	2	3								
	2	3	~	~	~	~	1	0	CBK7-23- * -◆-P0	Q1
	~	~	5	71/2	15	15			CAK7-23- * -◆-P0	



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	٧	٧	Common
480	440V	480V	2	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 C1:12			

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C1:12.

- 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 C1:15 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.
- Other voltages available, see Section A.

WIKstarters

KWIKstarters with CEP7 Overload Relays 600

sprecher+ schuh

Cover Control/	Maximum Horsepower			Total	l Aux.	cUL Approved- Type 1/12/4/4X	sion			
Enclosure (KS7-C0S1/C0S4)	Sing	jle Ø		Thre	ee Ø			tacts alled	IP66	Dimension
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	8
			KWIKs	tarter w	ith Star	t & Raise	d Stop	45		
	1/2	11/2	~	~	~	~	4.0	0	CBK7-9E- * -◆-P2	04
	~	~	2	2	5	7 1/2	10	0	CAK7-9E- * -◆-P2	Q1
	1/2	2	~	~	~	~	10	0	CBK7-12E- * -◆-P2	Q1
	~	~	3	3	7 1/2	10	10	0	CAK7-12E- * -◆-P2	QI
	1	3	~	~	~	~	10	0	CBK7-16E- * -◆-P2	Q1
	~	~	5	5	10	15	10	U	CAK7-16E- * -◆-P2	QI
1000	2	3	~	~	~	~	10	0	CBK7-23E- *-◆ -P2	Q1
	~	~	5	7 1/2	15	15	10	U	CAK7-23E-*-◆-P2	Q1
				KWII	(starter	with Re	set			
	1/2	11/2	~	~	~	~	1	0	CBK7-9 E-*-◆ -P0	Q1
0	~	~	2	2	5	71/2	1	U	CAK7-9E-*-◆-P0	QI
arman.	1/2	2	~	~	~	~	1	0	CBK7-12E- * -◆-P0	Q1
	~	~	3	3	71/2	10	1	U	CAK7-12E- * -◆-P0	αı
	1	3	~	~	~	~	1	0	CBK7-16E- * -◆-P0	Q1
	~	~	5	5	10	15	1	U	CAK7-16E- * -◆-P0	GI
	2	3	~	~	~	~	1	0	CBK7-23E- * -◆-P0	Q1
	~	~	5	7 1/2	15	15	1	0	CAK7-23E- * -◆-P0	(A)

Coil Codes ®

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

Ordering Instructions

Specify Catalog Number				
Replace (★) with Coil Code	See this page			
Replace (◆) with O/L Relay	See page C1:12			

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C1:12.

- 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 C1:15 for dimensional information.
- STOP button also functions as RESET button. Plastic Bezel is standard.
- **6** CA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils

KWIKstarters with CEP7 Overload Relays o

Enclosure	Maximum Horsepower						Total Aux.		cUL Approved- Type 1/12/4/4X	Dimension Code
(KS7-C2S4)	Sing	le Ø		Thre	ee Ø		Contacts Installed		itacts Ip66	
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0
,					KWIF	(starters	with A	C Coil		
3	2	5	۲	2	2	2	1	0	CBK7-30- * -◆-P▼	Q2
sprecher+ schah	~	~	7-1/2	10	20	25	_	Ü	CAK7-30- * -◆-P▼	
	3	5	۶	2	۶	۶	1	0	CBK7-37- * -◆-P▼	Q2
R	٧	~	10	10	25	30	1	U	CAK7-37- * -◆-P▼	GΖ
	3	7-1/2	~	~	~	~	1	0	CBK7-43- * -◆-P▼	Q2
	~	~	10	15	30	30	1	U	CAK7-43- *-◆ -P▼	G/Z

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		
CAV7 70 47	5.427	1EED	CEP7-1EEED		
CAK7-3043	1155	1EFD	CEP7-1EEFD		
1-Phase & 3-Phase / Auto or Manual Reset / Class 1030 *					
CAK7-3043	5.427	FED	CEP7-1EFED		
CAIX7-3043	1155	FFD	CEP7-1EFFD		

^{*} List Price Adder applies

Pilot Device Options (includes reset) @6

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) *

optional chi riodifications (race						
	Add to end of catalog					
Description	number					
Electronic Interface	-JE					
Surge Suppressor RD	-C					
Surge Suppressor Varistor	-V					
Additional NC Contact	-L01					
Additional NO Contact	-L10					

^{*} List Price Adder applies



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.

Coil Codes (*) 40

A.C.	Voltag	e Range	Contro	l Source	
Coil Code	50 Hz	60 Hz	СВК7	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.
- 3 Refer to page C1:13 for wiring diagram and C1:16 for dimensional information.
- 4 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.
- 6 CPT not possible with KS7-C2S4 (Q2) enclosure.



KWIKstarters with CEP7 Overload Relays o

	1								cUL Approved-	
Enclosure (KS7-C2S4)	Sing	le Ø	ximum F		wer ee Ø		Con	l Aux. tacts alled	Type 1/12/4/4X	Dimension Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	0
				KV	/IKstarte	ers with	Electro	nic DC	Coil 4	
3	2	5	~	~	~	~	1	0	CBK7-30E- * -◆-P▼	Q2
sprecher+ schuh	~	~	7-1/2	10	20	25	_		CAK7-30E- * -◆-P▼	<u> </u>
8	3	5	~	~	~	~	1	0	CBK7-37E- *- ◆-P▼	Q2
	~	~	10	10	25	30		Ŭ	CAK7-37E- * -◆-P▼	Q.L
	3	7-1/2	~	~	~	~	1	0	CBK7-43E- * -◆-P▼	Q2
	~	~	10	15	30	30	1		CA <mark>K7-43E-*-◆-</mark> P▼	GΖ



Replace • with one of the following Overload Relays

For use with KWIKstarter	Amp Range & 3-Phase /	Overload Relay Code (◆) Manual Reset /	Catalog No. (of Overload Relay used)
CAK7-3043	5.427	1EED 1EFD	CEP7-1EEED CEP7-1EEFD
1-Phase & 3-			et / Class 1030 *
CAV7 70 47	5.427	FED	CEP7-1EFED
CAK7-3043	1155	FFD	CEP7-1EFFD

^{*} List Price Adder applies

Pilot Device Options (includes reset) @6

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)*

- F	
	Add to end of
Description	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 C1:13 for wiring diagram and C1:16 for dimensional information.
- CA7-9E...55E with electronic coils are not interchangeable with non-electronic DC or AC coils.
- **5** One and only one Pilot Device option must be selected.
- **6** CPT not possible with KS7-C2S4 (Q2) enclosure.

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

Maximum				lorsepo	wer		Total Aux.		cUL Approved- Type 1/12/4/4X	
Cover Control/ Enclosure	Single Ø			Three Ø			Contacts Installed		1966	Dim Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	4
		KV	VIKstart	er with I	Reset an	d H-O- <i>F</i>	Select	tor Swi	tch and Light with AC Coil	
	1/2	11/2	~	~	~	~	1	0	CBK7-9- * -◆-P0+1R7	Q1
	~	~	2	2	5	71/2			CAK7-9- * -◆-P0+1R7	QI
	1/2	2	~	~	~	~	1		CBK7-12- * -◆-P0+1R7	Q1
	~	~	3	3	7 1/2	10	1	0	CAK7-12- * -◆-P0+1R7	Q1
	1	3	~	~	~	~	1 0	CBK7-16- * -◆-P0+1R7	Q1	
	~	~	5	5	10	15	1		CAK7-16- * -◆-P0+1R7	QΙ
strature.	2	3	~	~	~	~	1	0	CBK7-23-*-◆-P0+1R7	Q1
and 11 and	~	~	5	71/2	15	15	1		CAK7-23- * - ◆ -P0+1R7	αı
	KWIKstarter with Reset and H-O-A Selector Switch and Light with Electronic DC Coil ©									
	1/2	11/2	~	~	~	~	1	0	CBK7-9E-*-◆-P0+1R7	Q1
1-75	~	~	2	2	5	7 1/2		J	CAK7-9E- *-◆- P0+1R7	Q.I
	1/2	2	~	~	~	~	1	0	CBK7-12E-*-◆-P0+1R7	Q1
	~	~	3	3	7 1/2	10		Ů	CAK7-12E-*-◆-P0+1R7	
	1	3	~	~	~	~	1	0	CBK7-16E-*-◆-P0+1R7	Q1
	~	~	5	5	10	15			CAK7-16E-*-◆-P0+1R7	
	2	3	~	~	~	~	1	0	CBK7-23E-*-◆-P0+1R7	Q1
	~	~	5	71/2	15	15			CAK7-23E- *-◆ -P0+1R7	41

Coil Codes 6

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
D.C.	Voltage	Range		
Coil Code	VI	C		
12E	12	2V		
24E	24	IV.		

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	See this page
Replace (◆) with O/L Relay	See page C1:12

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate CEP7 Solid State Overload Relays. Select O/L Relay Code from page C1:12.

- This is a factory assembly. The KS7-COS1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- ② 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.
- Uses D7D-SM32x20 Monolothic 3-position selector switch for maintain control, HAND-OFF-AUTO function with legend plate.
- Refer to page C1:14 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.
- 6 CA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils.



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

	Maximum Horsepower							l Aux.	cUL Approved- Type 1/12/4/4X	_ e		
Cover Control/ Enclosure	Sing	le Ø		Thre	ee Ø		Contacts Installed				IP66	Dim Code
	115V	230V	200V	230V	460V	575V	NO	NC	Catalog Number	4		
		KWIK	starter v	with Res	et, Mult	ifunctio	n I-O P	ushbu	tton and E-Stop with AC Coil			
	1/2	11/2	~	~	~	~	1	0	CBK7-9- * -◆-P0+4U-9	Q1		
SERENA SERVICE	~	~	2	2	5	7 1/2		U	CAK7-9- * -◆-P0+4U-9	GI.		
	1/2	2	~	~	~	~	1	0	CBK7-12- * -◆-P0+4U-9	Q1		
	~	~	3	3	7 1/2	10	1	U	CAK7-12- * -◆-P0+4U-9	Q1		
	1	3	~	~	~	~	1	0	CBK7-16- * -◆-P0+4U-9	Q1		
	~	~	5	5	10	15	1	U	CAK7-16- * -◆-P0+4U-9	QI		
EUD55	2	3	~	~	~	~	1	0	CBK7-23- *-◆- P0+4U-9	Q1		
	~	~	5	7 1/2	15	15	1	U	CAK7-23-*-◆-P0+4U-9	WI.		



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

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).

Orderina Instructions

Specify Catalog Number					
Replace (★) with Coil Code Replace (◆) with O/L Relay	See this page See page C1:12				

Important Note: KWIKstarters (Q1 dim.) are only designed to accommodate Relays or CEP7 Solid State Overload Relays. Select O/L Relay Code from page C1:12.

- This is a factory assembly. The KS7-COS1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- 2 Uses D7P-U2EFFEPX11 Two-Position Multifunction push button with legend I/O.
- 3 Uses D7P-MT44PX01 Emergency Stop Push Button.
- Refer to page C1:15 for wiring and dimensional information. This is a clam-shell enclosure design with wires to cover controls.
- There is no room for additional auxilliaries.

C1

Three Phase Reversing KWIKstarters with CEP7 Overload Relays o

The continuous residual residu								
Enclosure (KS7-C0S4R)	Maximum Horsepower Three Ø			Auxi Conta Conta		cUL Approved- Type 1/12/4/4X IP66	Dimension Code	
	200V	230V	460V	575V	NO	NC	Catalog Number	6
				FVR	3-Phas	e with	AC Coil	
sprecher+ scholl	2	2	5	7 1/2	1	1	CAUK7-9- * -◆-P▼	Q3
	3	3	7 1/2	10	1	1	CAUK7-12- * -◆-P▼	Q3
•	5	5	10	15	1	1	CAUK7-16- * -◆-P▼	Q3
	5	7 1/2	15	15	1	1	CAUK7-23- * -◆-P▼	Q3



Coil Codes (*) 40

A.C.	Voltage	Range	Control Source		
Coil Code	50 Hz	60 Hz	СВК7	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	

Pilot Device Options (includes reset) @6

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) *

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

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.

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 8	3-Phase /	Manual Reset	: / 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-P	hase / Aut	o or Manual R	eset / Class 1030 *
	0.10.5	FAB	CEP7-1EFAB
	0.21.0	FBB	CEP7-1EFBB
CAUK7-923 CAUK7-9E23E	1.05.0	FCB	CEP7-1EFCB
CAOK/-JEZJE	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.
- 3 Refer to page C1:14 for wiring diagram and C1:16 for dimensional information.
- 4 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.
- 6 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).

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Three Phase Reversing KWIKstarters with CEP7 Overload Relays o

	ice i hase hevelsing kirmistal tels with ell / o vertoda ketays o							
Enclosure (KS7-C0S4R)	Maximum Horsepower Three Ø			Contac	liary cts per ctor ©	CUL Approved- Type 1/12/4/4X IP66	Dimension Code	
	200V	230V	460V	575V	NO	NC	Catalog Number	8
				FVR 3-I	Phase w	ith Elec	tronic DC Coil	
aprocher+ school	2	2	5	7 1/2	1	1	CAUK7-9E- *- ◆-P▼	Q3
	3	3	71/2	10	1	1	CAUK7-12E- * -◆-P▼	Q3
•	5	5	10	15	1	1	CAUK7-16E- * -◆-P▼	Q3
	5	71/2	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

Pilot Device Options (includes reset) @6

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) *

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

^{*} List Price adder applies

Orderina Instructions

Specify Catalog Number		
Replace (*) with Coil Code		
Replace (◆) with O/L Relay	See this page only	
Replace (▼) with Pilot Device 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	e & 3-Phase	/ Manual Res	set / 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	S-Phase / A	uto or Manual	l Reset / Class 1030 *
	0.10.5	FAB	CEP7-1EFAB
	0.21.0	FBB	CEP7-1EFBB
CAUK7-923 CAUK7-9E23E	1.05.0	FCB	CEP7-1EFCB
CAUK/-9E23E	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.
- 3 Refer to page C1:14 for wiring diagram and C1:16 for dimensional information.
- 4 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.
- **6** 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).

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

		For Use With		Environmental	
Component	Description	Contactor	Overload	Approvals	Catalog Number
I MASSAW.	Flush Green START / Extended Red STOP- Mechanical interface auxiliary contact (KS7-PCK) included in enclosure.	CA7-923	CEP7-1B ⊕	cUL Type 1/12/4/4x IEC IP66	KS7-C0S4
lazzy	Blue RESET Only	CA7-923	CEP7-1B ⑤	cUL Type 1/12/4/4x IEC IP66	KS7-C051

KWIKstarter Enclosures for use with CA7 Contactors and Overload Relays 69

_		For Use With		Environmental Approvals	
Component	Description	Contactor	Overload	Approvats	Catalog Number
Scrother -	Enclosure for KWIKstarter ❷ CAK7/CBK7-3043 CAK7/CBK7-30E43E	CA7-3043 CA7-30E43E	CEP7-1D ⑤	cUL Type 1/12/4/4x IEC IP66	KS7-C2S4
Springer +	Enclosure for Reversing KWIKstarter © CAUK7-923 CAUK7-9E23E	CAU7-923 CAU7-9E23E	СЕР7-1В ⊚	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.
- **②** 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.
- **③** 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.
- 4 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 C1:11 must be selected. Use of a CPT is not possible.
- **⑤** 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 Components with CEP7 Overload Relays (for use with KS7-C0S1/KS7-C0S4)

Component	Description	For Use With	Catalog Number
<u> </u>	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
<u>[3</u> ,3]	Neutral Terminal	KS7-C0S1 KS7-C0S4	KS7-PNT
ŤÎ	Grounding Kit (for use with metal conduit)	All Kwikstarter enclosures	KS7-GR1



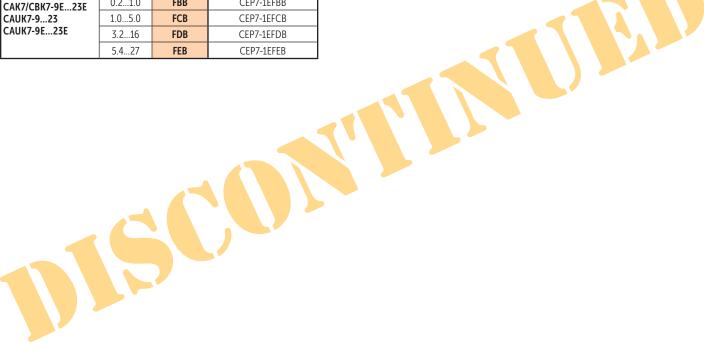
		For Use With		ct Blocks luded	
Kits	Description	Enclosure	NO	NC	Catalog Number
	Multi-Function Pushbutton kit Non-illuminated				
	START-STOP I-O	KS7-C2S4 Type 1, 12, 4, 4X	1	1	KS7-P3U KS7-P4U
	FOR-STOP-REV UP-STOP-DOWN OPEN-STOP-CLOSE	KS7-C0S4R Type 1, 12, 4, 4X	2	1	KS7-P3U-REV KS7-P4U-REV KS7-P5U-REV
	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 options include D7-BX_Base Mounted contact blocks. See page H6:7 for more information.
- 2 D7P-R611 and CEP7-1ERA can not be used with KS7-C2S4 or KS7-C0S4R. See Section H for more information.



KWIKstarters with CEP7 Solid State Overload Relay o

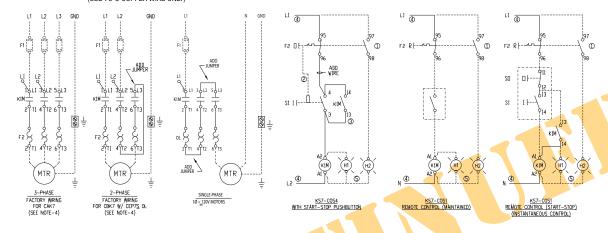
For use with KWIKstarter	Amp Range	Overload Relay Code (◆)	Catalog Number (of Overload Relay used)				
1-Phase & 3	S-Phase / Ma	nual Reset /	Class 10 or 20				
	0.10.5	1EAB	CEP7-1EEAB				
CAK7/CBK7-923	0.21.0	1EBB	CEP7-1EEBB				
CAK7/CBK7-9E23E CAUK7-923	1.05.0	1ECB	CEP7-1EECB				
CAUK7-9E23E	3.216	1EDB	CEP7-1EEDB				
	5.427	1EEB	CEP7-1EEEB				
1-Phase & 3-Pl	1-Phase & 3-Phase / Auto or Manual Reset / Class 1030						
CAK7/CBK7-923	0.10.5	FAB	CEP7-1EFAB				
CAK7/CBK7-923 CAK7/CBK7-9E23E	0.21.0	FBB	CEP7-1EFBB				
CAUK7-923	1.05.0	FCB	CEP7-1EFCB				
CAUK7-9E23E	3.216	FDB	CEP7-1EFDB				
	5.427	FEB	CEP7-1EFEB				



KWIKstarter (in enclosure KS7-C0S1/C0S4)

CUSTOMER MUST PROVIDE PROPER BRANCH CIRCUIT PROTECTION (F1) SEE THE APPLICATION INSTRUCTION SHEET - COMPONENT SELECTION TABLES FOR MAX. FUSE SIZE & CLASS AND APPLICABLE SHORT CIRCUIT RATING (USE 75°C COPPER WIRE ONLY)

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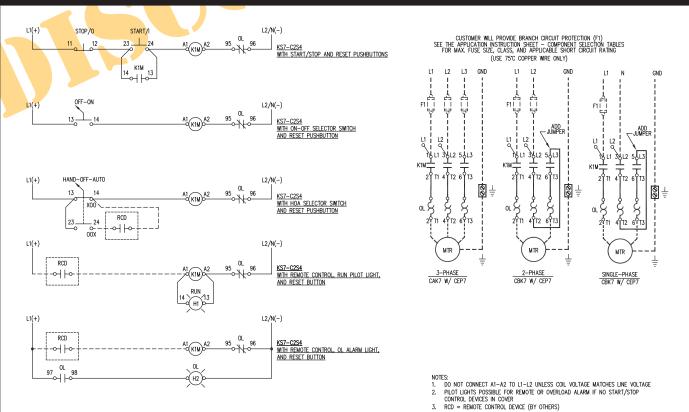


THIS DRAWING IS FOR THE FOLLOWING ENCLOSURES: KS7-C0S4 with integrated START-STOP push buttons KS7-COS1 with integrated RESET push button

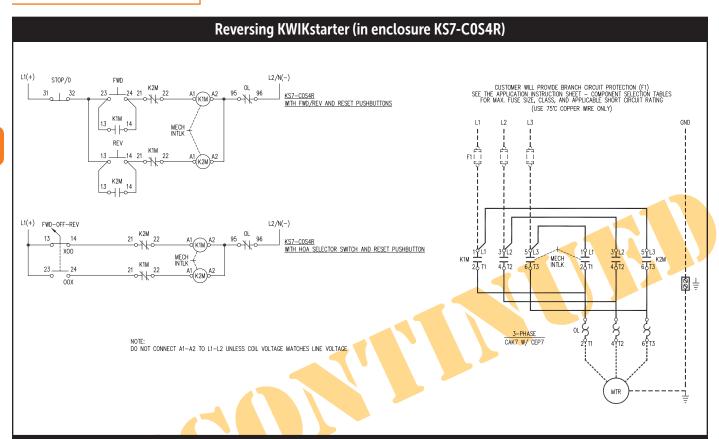
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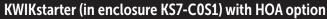
- MECHANICAL LATCH KS7-PLA FOR MAAINTAINED CONTROL (OPTIONAL).
- START CONTACT KIT KS7-PCK (INCLUDED) MOUNTS ON THE RIGHT SIDE WITH MOLDED PRE-FORMED JUMPERS.
- DO NOT WIRE CONTROLS CIRCUIT TO LINE SIDE OF CONTACTOR WHEN COIL VOLTAGE IS 120V OR LESS. (FACTORY WIRING STANDARD)
- OPTIONAL PILOT LIGHTS.

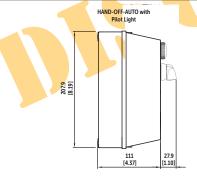
KWIKstarter (in enclosure KS7-C2S4)

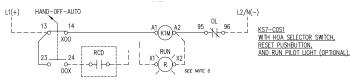






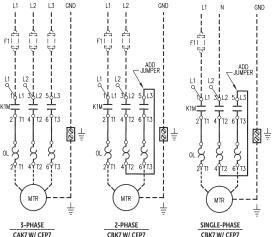






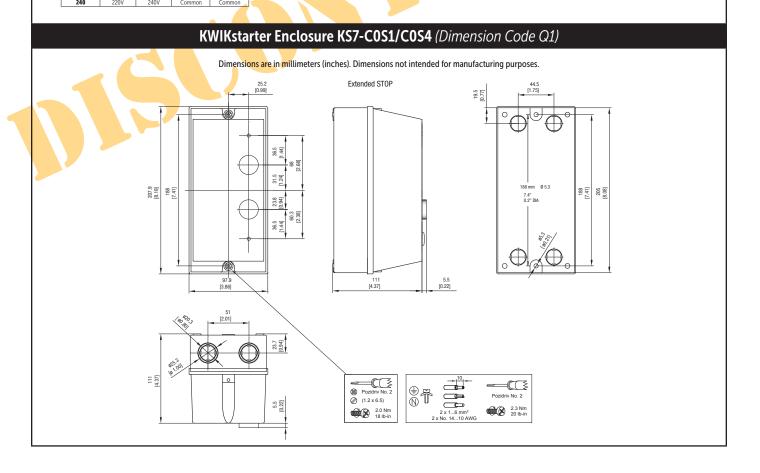
A.C.	Voltage	Range	Control Source		
Coil Code	50 Hz	60 Hz	СВК7	CAK7	
24Z	24V 24V		Separate	Separate	
120	110V 120V		Common	Separate	
208	~ 208V		~	Common	
220W	200V-220V 208V-240V		Common	Common	
240	220V 240V		Common	Common	
	Voltage Range VDC		Control Source		
Coil Code			СВК7	CAK7	
12E	12V		Separate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

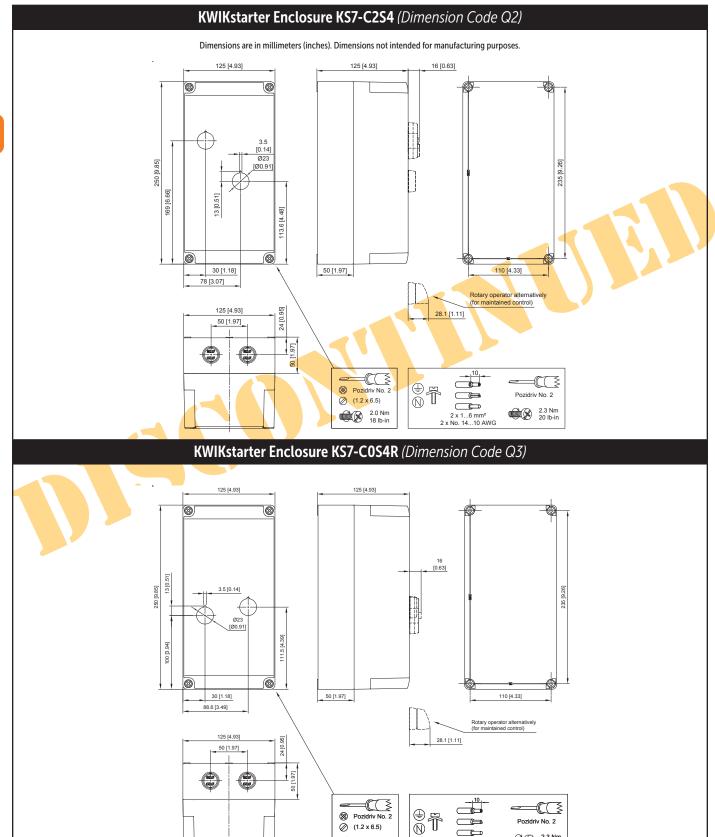
CUSTOMER WILL PROVIDE BRANCH CIRCUIT PROTECTION (FI)
SEE THE APPLICATION INSTRUCTION SHEET — COMPONENT SELECTION TABLES
FOR MAX. FUSE SIZE, CLASS, AND APPLICABLE SHORT CIRCUIT RATING
(USE 75°C COPPER WIRE ONLY)



NOTES:

KWIKstarter (in enclosure KS7-COS1) with Emergency Stop option EMERGENCY STOP with MULTI-FUNCTION CUSTOMER WILL PROVIDE BRANCH CIRCUIT PROTECTION (F1) SEE THE APPLICATION INSTRUCTION SHEET — COMPONENT SELECTION TABLES FOR MAX. FUSE SIZE, CLASS, AND APPLICABLE SHORT CIRCUIT RATING (USE 75°C COPPER WIRE ONLY) L1 ADD JUMPER L2 Q 8 E-STOP START/I KS7-COS1 MULTIFUNCTION WITH START/STOP/E-STOP AND RESET PUSHBUTTONS MTR K1M 3-PHASE 2-PHASE SINGLE-PHASE CAK7 W/ CEP7 CBK7 W/ CEP7 24Z 24V 24V Separate Separate 110V Separate Common 208 208V 208V-240V Common Common





(1.2 x 6.5)

2.0 Nm 18 lb-in

2.3 Nm 20 lb-in