

KWIKstarters I with CT7K or CEP7 First Generation Overload Relays; ①⑥

Cover Control/ Enclosure	Maximum Horsepower						Total Aux. Contacts Installed		cUL Approved- Type 1/12k IP65	Catalog Number	Price	Dimension Code ③
	Single Ø		Three Ø									
	115V	230V	200V	230V	460V	575V	NO	NC				
KWIKstarter with Start & Raised Stop ④⑤												
	1/2	1 1/2	~	~	~	~	2 ②	0	CBK7-9-*-*◆-U2	Refer to Factory		Q2
	~	~	2	2	5	7 1/2	2 ②	0	CAK7-9-*-*◆-U2			
	1/2	2	~	~	~	~	2 ②	0	CBK7-12-*-*◆-U2			
	~	~	3	3	7 1/2	10	2 ②	0	CAK7-12-*-*◆-U2			
	1	3	~	~	~	~	2 ②	0	CBK7-16-*-*◆-U2			
	~	~	5	5	10	15	2 ②	0	CAK7-16-*-*◆-U2			
	2	3	~	~	~	~	2 ②	0	CBK7-23-*-*◆-U2 ⑥			
	~	~	5	7 1/2	15	15	2 ②	0	CAK7-23-*-*◆-U2 ⑥			
	2	5	~	~	~	~	1 ②	0	CBK7-30-*-*◆-U2 ⑥			
	~	~	7 1/2	10	20	25	1 ②	0	CAK7-30-*-*◆-U2 ⑥			
	3	5	~	~	~	~	1 ②	0	CBK7-37-*-*◆-U2 ⑥			
	~	~	10	10	25	30	1 ②	0	CAK7-37-*-*◆-U2 ⑥			
KWIKstarter with Reset												
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9-*-*◆-U0	Refer to Factory		Q2
	~	~	2	2	5	7 1/2	1	0	CAK7-9-*-*◆-U0			
	1/2	2	~	~	~	~	1	0	CBK7-12-*-*◆-U0			
	~	~	3	3	7 1/2	10	1	0	CAK7-12-*-*◆-U0			
	1	3	~	~	~	~	1	0	CBK7-16-*-*◆-U0			
	~	~	5	5	10	15	1	0	CAK7-16-*-*◆-U0			
	2	3	~	~	~	~	1	0	CBK7-23-*-*◆-U0 ⑥			
	~	~	5	7 1/2	15	15	1	0	CAK7-23-*-*◆-U0 ⑥			
	2	5	~	~	~	~	1	0	CBK7-30-*-*◆-U0 ⑥			
	~	~	7 1/2	10	20	25	1	0	CAK7-30-*-*◆-U0 ⑥			
	3	5	~	~	~	~	1	0	CBK7-37-*-*◆-U0 ⑥			
	~	~	10	10	25	30	1	0	CAK7-37-*-*◆-U0 ⑥			

Coil Codes ⑤

A.C. Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	~	208V-240V
240	220V	240V
277	240V	277V
380	380V-400V	440V
480	440V	480V
600	550V	600V

Coil Voltage

KWIKstarter coils are wired standard from the factory to terminals "L1" and "L2" (for line voltage control). This means the coil voltage must match the line voltage. When a coil is specified for 120V or less, it will be wired for a separate control source (not wired to L1 and L2).

Ordering Instructions

Specify Catalog Number	
Replace (★) with Coil Code Replace (◆) with O/L Relay	See this page See page C15
Important Note: KWIKstarters I are only designed to accommodate C17K Thermal Overload Relays and CEP7 First Generation Solid State Overload Relays. Only select O/L Relay Code from page C15.	

- ① All KWIKstarters I are designed for three-wire control circuits. Two-wire (maintain) control is not available.
- ② A special design NO auxiliary contact (Cat.# CA7-PA-H10) 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 C16 for dimensional information.
- ④ STOP button also functions as RESET button.
- ⑤ Other voltages available, see page A37. *Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.*
- ⑥ Use CEP7 or CEP7S First Generation overload only. Do not use with CT7K OR CEP7 Second Generation.

KWIKstarters I with CEP7 First Generation Overload Relays ①③⑤⑦

Cover Control/ Enclosure	Maximum Horsepower						Total Aux. Contacts Installed		cUL Approved- Type 1/12/4/4X	Catalog Number	Price	Dimension Code ③
	Single Ø		Three Ø									
	115V	230V	200V	230V	460V	575V	NO	NC				
KWIKstarter with Start & Raised Stop ④												
	1/2	1 1/2	~	~	~	~	2 ②	0	CBK7-9-*♦-K2 CAK7-9-*♦-K2	Refer to Factory	Q4	
	~	~	2	2	5	7 1/2	2 ②	0				
	1/2	2	~	~	~	~	2 ②	0	CBK7-12-*♦-K2 CAK7-12-*♦-K2			
	~	~	3	3	7 1/2	10	2 ②	0				
	1	3	~	~	~	~	2 ②	0	CBK7-16-*♦-K2 CAK7-16-*♦-K2			
	~	~	5	5	10	15	2 ②	0				
	2	3	~	~	~	~	2 ②	0	CBK7-23-*♦-K2 CAK7-23-*♦-K2			
	~	~	5	7 1/2	15	15	2 ②	0				
KWIKstarter with Reset												
	1/2	1 1/2	~	~	~	~	1	0	CBK7-9-*♦-K0 CAK7-9-*♦-K0	Refer to Factory	Q4	
	~	~	2	2	5	7 1/2	1	0				
	1/2	2	~	~	~	~	1	0	CBK7-12-*♦-K0 CA K7-12-*♦-K0			
	~	~	3	3	7 1/2	10	1	0				
	1	3	~	~	~	~	1	0	CBK7-16-*♦-K0 CAK7-16-*♦-K0			
	~	~	5	5	10	15	1	0				
	2	3	~	~	~	~	1	0	CBK7-23-*♦-K0 CAK7-23-*♦-K0			
	~	~	5	7 1/2	15	15	1	0				

Coil Codes ⑥

A.C. Coil Code	Voltage Range	
	50 Hz	60 Hz
24Z	24V	24V
120	110V	120V
208	~	208V
220W	~	208V-240V
240	220V	240V
277	240V	277V
380	380V-400V	440V
480	440V	480V
600	550V	600V

Coil Voltage

KWIKstarter coils are wired standard from the factory to terminals "L1" and "L2" (for line voltage control). This means the coil voltage must match the line voltage. When a coil is specified for 120V or less, it will be wired for a separate control source (not wired to L1 and L2).

Ordering Instructions

Specify Catalog Number	
Replace (✱) with Coil Code	See this page See page C15
Replace (◆) with O/L Relay	
Important Note: KWIKstarters as shown above, are only designed to accommodate CEP7 Solid State Overload Relays. Only select O/L Relay Code from page C9.	

- ① All KWIKstarter I are designed for three-wire control circuits. Two-wire (maintain) control is not available.
- ② A special design NO auxiliary contact (Cat.# CA7-PA-H10) 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 C16 for dimensional information.
- ④ STOP button also functions as RESET button.
- ⑤ For installed red pilot light (Cat. # KS7-PL13), change suffix from "-K2" to "-K3" and add \$50. Example: change CBK7-9-♦-K2 to CBK7-9-♦-K3.
- ⑥ Other voltages available, see page A37. *Non-standard coil voltages not listed here must be ordered and installed separately as renewal parts.*
- ⑦ This starter uses the KS7-AKC845 enclosure which only accepts the CEP7 First Generation solid state overload relay (not CEP7 Second Generation).

KWIKstarter I Enclosures with CT7K or CEP7 First Generation Overload Relay ①②③

Component	Description	For Use With		Environmental Approvals	Catalog Number	Price
		Contactors	Overload			
	Flush Green START / Extended Red STOP- Mechanical interface auxiliary contact required. See following page for pricing.	CA7-9...16 CA7-9...23 CA7-30...37	CT7K CEP7 CEP7	cUL Type 1/12k IP65	KS7-CYLU4 KS7-CYMU4 KS7-CYNU4	Refer to Factory
	Flush Green START / Flush RED STOP- Mechanical interface auxiliary contact required. See following page for pricing	CA7-9...16 CA7-9...23 CA7-30...37	CT7K CEP7 CEP7	cUL Type 1/12k IP65	KS7-CYLU2 KS7-CYMU2 KS7-CYNU2	
	Blue RESET Only -	CA7-9...16 CA7-9...23 CA7-30...37	CT7K CEP7 CEP7	cUL Type 1/12 IP65	KS7-CYLU1 KS7-CYMU1 KS7-CYNU1	
	Blank - For remote operation	CA7-9...37	~	cUL Type 1/12 IP65	KS7-CYMN2	
	Blank- Knockouts for pilot device Accessory Kits	CA7-9...23	CEP7 ②	cUL Type 4/4X/12 ②	KS7-AKC845	

- ① KWIKstarter I are only designed to accommodate CA7-9...37 contactors with CT7K Thermal Overload Relays or CEP7 First Generation Solid State Overload Relays. Select contactor from Section A and overload relay from Section B in this catalog.
- ② These Kwikstarter enclosures will not work with CEP7 Second Generation.
- ③ Note that field interchangeability between CEP7 First Generation and CT7K is not possible.

KWIKstarter I Components with CT7K or CEP7 First Generation Overload Relay

Component	Description	For Use With...	Catalog Number	Price
	Mechanical Interface Auxiliary Contact Block - ① Specially designed NO auxiliary; mechanically interfaces with the START button. Required for all enclosures using START / STOP buttons. Mounts on right side.	All KWIKstarter enclosures	CA7-PA-H10	Refer to Factory
	Pushbutton Assemblies - - Flush green I / START - Extended red STOP / RESET - Extended red STOP - Gray RESET	UL Type 4 enclosures only (Cat. #KS7-AKC845)	KS7-MS10 KS7-MS11 KS7-MS12 KS7-MR5	
	Pilot Light Assembly - - 120V - Resistor (240V)	UL Type 4 enclosures only (Cat. #KS7-AKC845)	KS7-PL13R KS7-PL14R	
	Grounding Kit (for use with metal conduit)	All KWIKstarter enclosures (when using metal conduit)	KS7-GR1	

Side Mount Auxiliary Contact Blocks (1 & 2 Pole) ①

Contact Block	Description	NO	NC	Contact Arrangement	For use with...	Catalog Number	Price
 1-pole (typical)  2-pole (typical)	Auxiliary Contact Blocks for Side Mounting – ② • 1 and 2-pole • Left mounting on the contactor only when mounted in KWIKstarter • Snap-on design - mounts without tools • Electronic compatible contacts • Late break / early make (L) available • Mutual positive guidance to the main contactor poles (excluding L-types)	0	1		CA7 all	CA7-PA-01	Refer to Factory
		1	0		CA7 all	CA7-PA-10	
		0	2		CA7 all	CA7-PA-02	
		1	1		CA7 all	CA7-PA-11	
		2	0		CA7 all	CA7-PA-20	
		1EM	1LB		CA7 all	CA7-PA-L11	

- ① KWIKstarter I with START/STOP pushbutton requires a CA7-PA-H10 Auxiliary Contact Block mounted to the right side of the contactor. Additional blocks must mount on left.
- ② Select up to two contact blocks (one for either side of contactor) if using enclosure with RESET only. Select only one auxiliary contact block (for left side mounting on contactor) if using enclosure with START/STOP buttons.

RC Modules and Varistor Modules are also available for use with KWIKstarters. Refer to page A32 in this catalog for ordering information.

KWIKstarters I with CT7K Thermal Overload Relay ①⑤

For use with KWIKstarter...	Amp Range	Overload Relay Code (◆)	Catalog Number (of Overload Relay used)	Price Adder
1 or 3-Phase, Manual Reset, Class 10				
CAK7-9...CAK7-16 and CBK7-9...CBK7-16	0.1...0.15	TKA	CT7K-17-0.15	Refer to Factory
	0.15...0.23	TKB	CT7K-17-0.23	
	0.23...0.35	TKC	CT7K-17-0.35	
	0.35...0.55	TKD	CT7K-17-0.55	
	0.55...0.8	TKE	CT7K-17-0.80	
	0.8...1.2	TKF	CT7K-17-1.2	
	1.2...1.8	TKG	CT7K-17-1.8	
	1.8...2.7	TKH	CT7K-17-2.7	
	2.7...4	TKJ	CT7K-17-4.0	
	4...6	TKK	CT7K-17-6.0	
CAK7-12, CBK7-12	9...12.5	TKM	CT7K-17-12.5	Refer to Factory
CAK7-16, CBK7-16	12.5...17.5	TKN	CT7K-17-17.5	

KWIKstarters I with CEP7 First Generation Solid State Overload Relay ②③④ 1-Phase Application

For use with KWIKstarter...	Amp Range	Overload Relay Code (◆)	Catalog Number (of Overload Relay used)	Price Adder
1-Phase / Manual Reset / Class 10				
CBK7-9...CAK7-16 ③④	2...7	MSD	CEP7S-M32-7-10	Refer to Factory
	7...15	MSE	CEP7S-M32-15-10	
	12...32	MSF	CEP7S-M32-32-10	
CBK7-23	12...32	MSF	CEP7S-M32-32-10	
CBK7-30...CBK7-37	12...37	MSG	CEP7S-M37-37-10	
1-Phase / Manual Reset / Class 20				
CBK7-9...CBK7-16 ③④	2...7	MS2D	CEP7S-M32-7-20	Refer to Factory
	5...15	MS2E	CEP7S-M32-15-20	
	12...32	M2SF	CEP7S-M32-32-20	
CBK7-23	12...32	MS2F	CEP7S-M32-32-20	
CBK7-30...CBK7-37	12...37	MS2G	CEP7S-M37-37-20	
1-Phase / Automatic or Manual Reset / Class 10				
CBK7-9...CBK7-16 ③④	2...7	ASD	CEP7S-A32-7-10	Refer to Factory
	5...15	ASE	CEP7S-A32-15-10	
	12...32	ASF	CEP7S-A32-32-10	
CBK7-23	12...32	ASF	CEP7S-A32-32-10	
CBK7-30...CBK7-37	12...37	ASG	CEP7S-A32-37-10	
1-Phase / Automatic or Manual Reset / Class 20				
CBK7-9...CBK7-16 ③④	2...7	AS2D	CEP7S-A32-7-20	Refer to Factory
	5...15	AS2E	CEP7S-A32-15-20	
	12...32	AS2F	CEP7S-A32-32-20	
CBK7-23	12...32	AS2F	CEP7S-A32-32-20	
CBK7-30...CBK7-37	12...37	AS2G	CEP7S-A32-37-20	

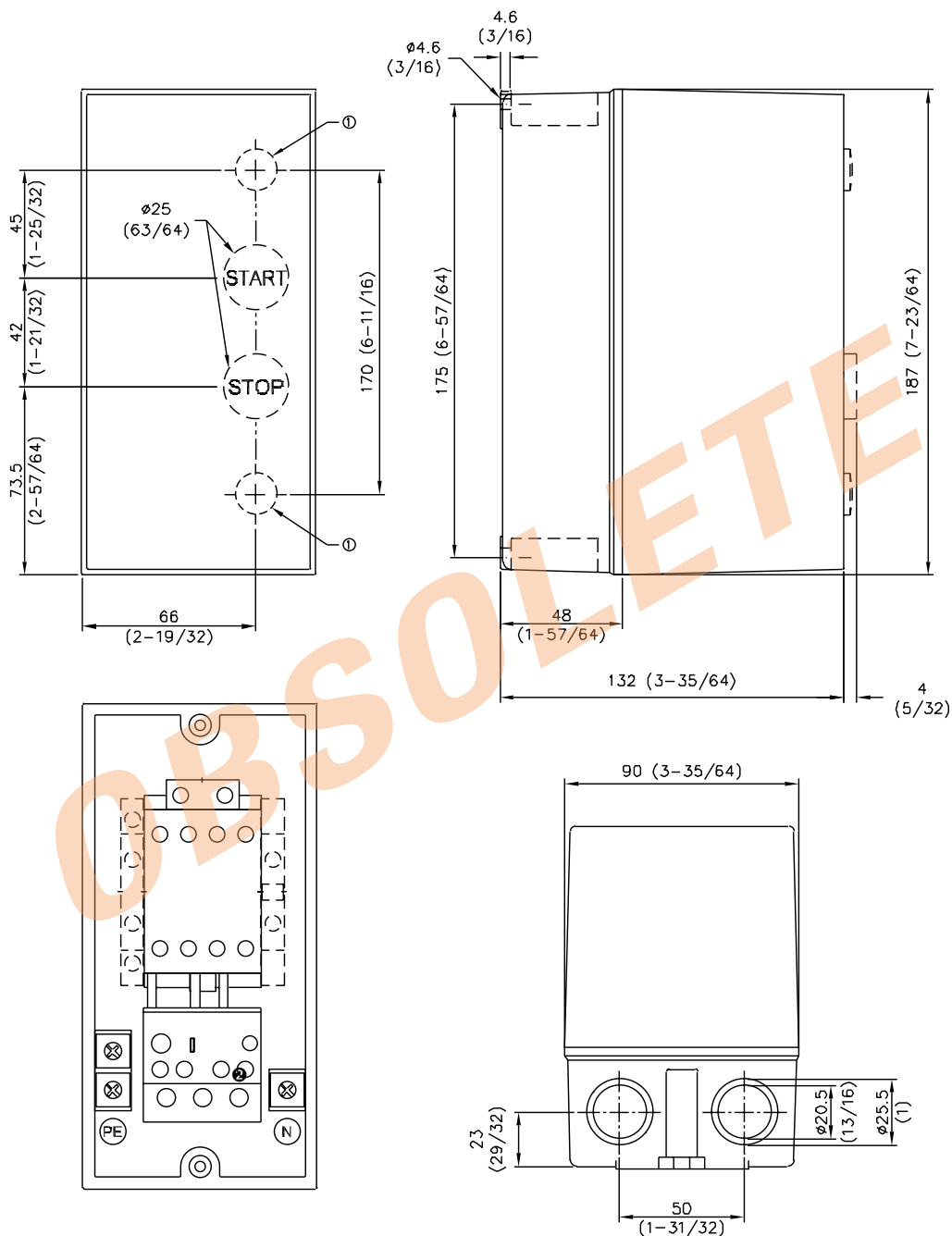
KWIKstarters I with CEP7 First Generation Solid State Overload Relay ②③④ 3-Phase Application

For use with KWIKstarter...	Amp Range	Overload Relay Code (◆)	Catalog Number (of Overload Relay used)	Price Adder
3-Phase / Manual Reset / Class 10				
CAK7-9...CAK7-16 ③④	0.1...0.32	MA	CEP7-M32-0.32-10	Refer to Factory
	0.32...1.0	MB	CEP7-M32-1.0-10	
	1.0...2.9	MC	CEP7-M32-2.9-10	
	1.6...5.0	MD	CEP7-M32-5-10	
	3.7...12	ME	CEP7-M32-12-10	
	12...32	MF	CEP7-M32-32-10	
CAK7-23	12...32	MF	CEP7-M32-32-10	
CAK7-30...CAK7-37	12...37	MG	CEP7-M37-37-10	
3-Phase / Manual Reset / Class 20				
CAK7-9...CAK7-16 ③④	0.1...0.32	M2A	CEP7-M32-0.32-20	Refer to Factory
	0.32...1.0	M2B	CEP7-M32-1.0-20	
	1.0...2.9	M2C	CEP7-M32-2.9-20	
	1.6...5.0	M2D	CEP7-M32-5-20	
	3.7...12	M2E	CEP7-M32-12-20	
	12...32	M2F	CEP7-M32-32-20	
CAK7-23	12...32	M2F	CEP7-M32-32-20	
CAK7-30...CAK7-37	12...37	M2G	CEP7-M37-37-20	
3-Phase / Automatic or Manual Reset / Class 10				
CAK7-9...CAK7-16 ③④	0.1...0.32	AA	CEP7-A32-0.32-10	Refer to Factory
	0.32...1.0	AB	CEP7-A32-1.0-10	
	1.0...2.9	AC	CEP7-A32-2.9-10	
	1.6...5.0	AD	CEP7-A32-5-10	
	3.7...12	AE	CEP7-A32-12-10	
	12...32	AF	CEP7-A32-32-10	
CAK7-23	12...32	AF	CEP7-A32-32-10	
CAK7-30...CAK7-37	12...37	AG	CEP7-A37-37-10	
3-Phase / Automatic or Manual Reset / Class 20				
CAK7-9...CAK7-16 ③④	0.1...0.32	A2A	CEP7-A32-0.32-20	Refer to Factory
	0.32...1.0	A2B	CEP7-A32-1.0-20	
	1.0...2.9	A2C	CEP7-A32-2.9-20	
	1.6...5.0	A2D	CEP7-A32-5-20	
	3.7...12	A2E	CEP7-A32-12-20	
	12...32	A2F	CEP7-A32-32-20	
CAK7-23	12...32	A2F	CEP7S-A32-32-20	
CAK7-30...CAK7-37	12...37	A2G	CEP7S-A37-37-20	

- ① If using CT7K in single phase application with CBK7-9...16, wire per drawing on page C89.
- ② 3-phase CEP7 units are only designed for 3Ø applications. Single phase CEP7S units are only designed for 1Ø applications. If using CEP7S, wire per drawing on page C89.
- ③ If using CEP7 overload relay or CEP7S in a CAK7...K2 or CBK7...K2 starter, the \$9 adder does not apply.
- ④ Scheduled obsolescence for 2006.
- ⑤ Not for use with enclosures ending in suffix "K".

KWIKstarter I Enclosure (Dimension Code Q2 & Q3) ①②

- Dimensions are in millimeters (inches)
- Dimensions not intended for manufacturing purposes



- ① PRE-EMBOSS FOR PILOT LIGHT
② DIMENSIONS IN MILLIMETERS (INCHES)

- ① See pages C103-106 for Dimension Code Q4.
② CEP7 First Generation shown. Although dimensions are the same, enclosures are designed specifically for CEP7 First Generation or CT7K and are not interchangeable.