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



KTA7 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 KTA7 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 KT7 Motor Controllers.





KWIKstarters with CT7N or CEP7 Overload Relays 08

| Cover Control/ | Maximum Horsepower | | | | | | | Aux. | cUL Approved- Type 1/12/4/4X | Dimen- sion Code |
|--|--------------------|-------|------|-------|---------|----------|-----------------------|--------------|---------------------------------|---------------------|
| Enclosure (KS7-COS1/COS4) | Sing | gle Ø | | Thre | ee Ø | | Contacts Installed | | IDCC | |
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 0 |
| KWIKstarter with Start & Raised Stop 🛛 😏 | | | | | | | | | | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-9- * -◆-P2 | Q1 |
| e | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | | CAK7-9-*-+P2 | |
| | 1/2 | 2 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-12- * -♦-P2 | Q1 |
| • | ~ | ~ | 3 | 3 | 7 1/2 | 10 | 10 | | CAK7-12-*-+P2 | |
| | 1 | 3 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-16- * -◆-P2 | Q1 |
| | ~ | ~ | 5 | 5 | 10 | 15 | | | CAK7-16-*-+P2 | <u> </u> |
| | 2 | 3 | ~ | ~ | ~ | ~ | 10 | 1 0 0 | CBK7-23- *- ◆-P2 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | | CAK7-23- *- ◆-P2 | di |
| | | | | K۱ | WIKstar | ter with | Reset | | | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-9- * -♦-P0 | Q1 |
| in the second | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | | CAK7-9- * -◆-P0 | |
| | 1/2 | 2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-12- * -◆-P0 | Q1 |
| | ~ | ~ | 3 | 3 | 7 1/2 | 10 | ' | | CAK7-12- * -◆-P0 | U UI |
| | 1 | 3 | ~ | ~ | ~ | ~ | | | CBK7-16- * -◆-P0 | 01 |
| | ~ | ~ | 5 | 5 | 10 | 15 | 1 | 0 | CAK7-16- * -◆-P0 | Q1 |
| 1.00 | 2 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-23- * -◆-P0 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | | CAK7-23- * -◆-P0 | |

Coil Codes 🛛

KWIKstarters

| A.C. | Voltage | Range | Control | l 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 are only designed to accommodate CT7N Thermal Overload Relays or 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.
- **6** Other voltages available, see Section A.
- Use CT7N or CEP7-ED/CEP7-EE overload.



Series CAK7 & CBK7 - Electronic DC Coils

KWIKstarters

KWIKstarters with CT7N or CEP7 Overload Relays 0000

| Cover Control/ | Cover Control/ Maximum Horsepower | | | Total | Aux. | cUL Approved- | ion | | | |
|------------------------------|-----------------------------------|-------|------|----------|---------|---------------|-----------------------|--------|-----------------------------------|-------------------|
| Enclosure (KS7-COS1/COS4) | Sing | ıle Ø | | Thre | ee Ø | | Contacts Installed | | Type 1/12/4/4X IP66 | Dimension Code |
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 6 |
| | | | KW | /IKstart | er with | Start & | Raised | d Stop | 45 | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-9E- * -♦-P2 | Q1 |
| i i | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | U | CAK7-9E- * -♦-P2 | UI |
| = | 1/2 | 2 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-12E- * -♦-P2 | Q1 |
| • | ~ | ~ | 3 | 3 | 7 1/2 | 10 | | U | CAK7-12E- * -♦-P2 | QI |
| | 1 | 3 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-16E- * -♦-P2 | Q1 |
| - | ~ | ~ | 5 | 5 | 10 | 15 | | 0 | CAK7-16E- * -♦-P2 | GI |
| | 2 | 3 | ~ | ~ | ~ | ~ | 10 | 0 | CBK7-23E- * - ◆ -P2 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | 0 | CAK7-23E-*-+P2 | GI |
| | | | | l | (WIKsta | irter wi | th Rese | et | | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-9E- * -◆-P0 | Q1 |
| e e | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | 0 | CAK7-9E- * -◆-P0 | GI |
| = | 1/2 | 2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-12E- * -♦-P0 | Q1 |
| | ~ | ~ | 3 | 3 | 7 1/2 | 10 | I | | CAK7-12E- * -◆-P0 | GI |
| | 1 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-16E- * -♦-P0 | Q1 |
| | ~ | ~ | 5 | 5 | 10 | 15 | | 0 | 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 are only designed to accom- modate CT7N Thermal Overload Relays or 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.
- GCA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils
- G Use CT7N or CEP7-ED/CEP7-EE overload.



KWIKstarters with CEP7 Overload Relays 0

| Enclosure (KS7-C2S4) | Sinç | Ma x gle Ø | cimum | Horsepo Thr | ee Ø | | Con | Aux. tacts alled | CUL Approved- Type 1/12/4/4X IP66 | Dimension Code |
|-------------------------|------|----------------------|-------|----------------|------|---------|--------|------------------------|---|-------------------|
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 6 |
| | | | | | | KWIKsta | arters | with A(| C Coil | |
| Ð | 2 | 5 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-30-*-ETD-P▼ | Q2 |
| aprochor - | ~ | ~ | 7-1/2 | 10 | 20 | 25 | | | CAK7-30- *- ◆-P▼ | GL |
| | 3 | 5 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-37-∗-ETD-P▼ | Q2 |
| | ~ | ~ | 10 | 10 | 25 | 30 | | | CAK7-37- * -◆-P▼ | u. |
| | 3 | 7-1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-43-*-ETD-P▼ | Q2 |
| | ~ | ~ | 10 | 15 | 30 | 30 | | | CAK7-43- *- ◆-P▼ | QZ |

Replace \blacklozenge with one of the following Overload Relays

| - | | | <u> </u> |
|----------------------------------|--------------|-------------------------------|---|
| For use with KWIKstart- er | Amp Range | Overload Relay Code (♠) | Catalog No. (of Overload Relay used) |
| | 3-Phas | e / Manual R | eset / Class 10 |
| | 1.05.0 | D1CD | CEP7-ED1CD |
| CAK7-3043 | 3.216 | D1DD | CEP7-ED1DD |
| UAN7-3043 | 5.427 | D1ED | CEP7-ED1ED |
| | 945 | D1FD | CEP7-ED1FD |
| 3-Pha | ise / Auto a | or Manual Res | et / Class 10, 15, 20, 30 |
| CAK7-3043 | 1.05.0 | ECD | CEP7-EECD |
| | 3.216 | EDD | CEP7-EEDD |
| | 5.427 | EED | CEP7-EEED |
| | 945 | EFD | CEP7-EEFD |

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 |

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 (*) 00

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

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-ED/CEP7-EE overloads only. Single-phase applications utilize CEP7S-EETD only.

- ❷ 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.



Series CAK7 & CBK7 - Electronic DC Coils

KWIKstarters with CEP7 Overload Relays 0

| Enclosure (KS7-C2S4) | | Max | cimum I | lorsepo | wer | | | | cUL Approved- | n- ode |
|-------------------------|------|-------|---------|---------|-------|---------|--------|----------------|-----------------------------------|---------------------|
| | Sing | jle Ø | Three Ø | | | | | tacts alled | Type 1/12/4/4X IP66 | Dimen- sion Code |
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 0 |
| | | | | | KWIKs | tarters | with E | lectron | ic DC Coil 🛛 | |
| 3 | 2 | 5 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-30E-★-ETD-P▼ | Q2 |
| specher+ | ~ | ~ | 7-1/2 | 10 | 20 | 25 | | | CAK7-30E- * -◆-P▼ | |
| • | 3 | 5 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-37E- * -ETD-P▼ | Q2 |
| | ~ | ~ | 10 | 10 | 25 | 30 | | | CAK7-37E- *- ◆-P▼ | GL . |
| | 3 | 7-1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-43E-★-ETD-P▼ | Q2 |
| | ~ | ~ | 10 | 15 | 30 | 30 | | 0 | CAK7-43E- * - ◆ -P▼ | QZ. |



KWIKstarters

Replace \blacklozenge with one of the following Overload Relays

| | | | | _ |
|----------------------------------|--------------|-------------------------------|--|---|
| For use with KWIKstart- er | Amp Range | Overload Relay Code (♠) | Catalog No. (of Overload Relay used) | |
| | 3-Ph | ase / Manual | Reset / Class 10 | |
| | 1.05.0 | D1CD | CEP7-ED1CD | ٦ |
| CAK7-3043 | 3.216 | D1DD | CEP7-ED1DD | |
| | 5.427 | D1ED | CEP7-ED1ED | |
| | 945 | D1FD | CEP7-ED1FD | |
| 3-P | hase / Auto | or Manual R | eset / Class 10, 15, 20, 30 | |
| | 1.05.0 | ECD | CEP7-EECD | |
| CAK7-3043 | 3.216 | EDD | CEP7-EEDD | |
| | 5.427 | EED | CEP7-EEED | |
| | 945 | EFD | CEP7-EEFD | |

Pilot Device Options (includes reset) @0

| Pushbutton Description | Replace ▼ in catalog number with |
|--|--|
| START-STOP Multi-function (shown) | 3U |
| 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)

| | 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 |

Coil Codes 🐠

| D.C. | Voltage Range VDC | | | | | | |
|-----------|----------------------|--|--|--|--|--|--|
| Coil Code | | | | | | | |
| 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-ED/CEP7-EE overloads only. Single-phase applications utilize CEP7S-EETD only.

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



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

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

| A wind a north of old rough with the run light of the | | | | | | | | | | |
|---|---|-------|----------|----------|----------|----------|--------|------------------------|---|---------------------|
| Cover Control/ Enclosure | Maximum Horsepower Single Ø Three Ø | | | | | | | Aux. tacts alled | cUL Approved- Type 1/12/4/4X IP66 | Dimen- sion Code |
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 4 |
| | | | KWIKst | arter w | ith Rese | et and H | -0-A S | electo | r Switch and Light with AC Coil | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-9- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | 0 | CAK7-9- * -◆-P0+1R7 | Q I |
| | 1/2 | 2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-12- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 3 | 3 | 7 1/2 | 10 | | U | CAK7-12- * -◆-P0+1R7 | Q I |
| Con con | 1 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-16- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 5 | 5 | 10 | 15 | 1 | U | CAK7-16- * -◆-P0+1R7 | |
| = | 2 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-23- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | 0 | CAK7-23- * -◆-P0+1R7 | Q I |
| | | KWIKs | tarter w | vith Res | et and l | H-O-A S | electo | r Swita | ch and Light with Electronic DC Coil 📀 | |
| | 1/2 | 1 1/2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-9E- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 2 | 2 | 5 | 7 1/2 | | 0 | CAK7-9E- * -◆-P0+1R7 | Q I |
| | 1/2 | 2 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-12E- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 3 | 3 | 7 1/2 | 10 | 1 | 0 | CAK7-12E- * -◆-P0+1R7 | Q I |
| | 1 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-16E- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 5 | 5 | 10 | 15 | 1 | 0 | CAK7-16E- * -◆-P0+1R7 | Q I |
| | 2 | 3 | ~ | ~ | ~ | ~ | 1 | 0 | CBK7-23E- * -◆-P0+1R7 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | 0 | CAK7-23E- * -◆-P0+1R7 | ULI |

Coil Codes Ø

| 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-C0S1 (Q1) enclosure does not include knock-outs for field assembly of this starter.
- ❷ 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.
- Performation 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.
- CA7-9E...23E with electronic coils are not interchangeable with non-electronic DC or AC coils.

Ordering Instructions

| See this page See page C30 |
|-------------------------------|

Important Note: KWIKstarters are only designed to accommodate CT7N Thermal Overload Relays or CEP7 Solid State Overload Relays. Select O/L Relay Code from page C30.



Series CAK7 & CBK7 - AC with E-Stop

| | | Max | kimum l | lorsepo | wer | | Total Aux. | | cUL Approved- | ode |
|-----------------------------|------|-------|---------|----------|--------|-----------------------|------------|------------------------|----------------------------------|-----|
| Cover Control/ Enclosure | Sing | jle Ø | Three Ø | | | Contacts Installed | | Type 1/12/4/4X IP66 | Dimen- sion Code | |
| | 115V | 230V | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 4 |
| | | K١ | WIKstar | ter with | Reset, | Multifu | nction | I-O Pu | shbutton 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 | G |
| | 1/2 | 2 | ~ | ~ | ~ | ~ | 4 | 0 | CBK7-12- * -◆-P0+4U-9 | Q1 |
| | ~ | ~ | 3 | 3 | 7 1/2 | 10 | | | CAK7-12- *- ◆-P0+4U-9 | UI |
| | 1 | 3 | ~ | ~ | ~ | ~ | 1 | | CBK7-16- *- ◆-P0+4U-9 | Q1 |
| | ~ | ~ | 5 | 5 | 10 | 15 | | 0 | CAK7-16- *- ◆-P0+4U-9 | U.I |
| | 2 | 3 | ~ | ~ | ~ | ~ | 4 | 0 | CBK7-23- * -◆-P0+4U-9 | Q1 |
| | ~ | ~ | 5 | 7 1/2 | 15 | 15 | | U | CAK7-23- * -◆-P0+4U-9 | |

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 | 1 | 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 are only designed to accom- modate CT7N Thermal Overload 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.
- ❷ Uses D7P-U2EFFEPX11 Two-Position Multifunction push button with legend I/O.
- Uses D7P-MT44PX01 Emergency Stop Push Button.
- Refer to page C33 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.
- There is no room for additional auxilliaries.



Series CAUK7-9...23 - AC Coils



Three Phase Reversing KWIKstarters with CEP7 Overload Relays O

| Enclosure | Max | cimum H | lorsepo | wer | Auxiliary Contacts | | cUL Approved- Type 1/12/4/4X | nen- Code |
|-------------|-------|--------------------------|---------|-------|-----------------------|--------------|---------------------------------|--------------------|
| (KS7-COS4R) | Three | | Three Ø | | | er ctor Ø | IP66 | Dimen- sion Cod |
| | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 0 |
| | | FVR 3-Phase with AC Coil | | | | | | |
| Spracher+ | 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 |

Replace V in cataloo

number with

3U

4U

5U

6

7

8

1Y

0



Coil Codes (*) 00

Pushbutton Description

Overload Alarm Pilot Light

(supplied on each contactor)

D7-N8 22mm Hole Plug

Description

Electronic Interface

Surge Suppressor RD

Surge Suppressor Varistor

FOR-STOP-REV Multi-function (shown)

FOR-STOP-REV 3-Position Selector switch

UP-OFF-DOWN 3-Position Selector switch

OPEN-OFF-CLOSE 3-Position Selector switch

UP-STOP-DOWN Multi-function

OPEN-STOP-CLOSE Multi-function

| 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 | 7 240V 277V | | Common | ~ |
| 415 | 400-415V | ~ | ~ | Common |
| 480 | 440V | 480V | ~ | Common |
| 600 | 550V | 600V | ~ | Common |

Pilot Device Options (includes reset) @0

common with the line voltage and will be connected to the line source (L1-L2) per the table.

Control Circuit Note

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.

Common: Coils and pilot devices in the control circuit are assumed to be

| <u> </u> | | | , | | | |
|---|--------------|-------------------------------|---|--|--|--|
| For use with KWIKstarter | Amp Range | Overload Relay Code (♠) | Catalog Number (of Overload Relay used) | | | |
| | | 3-Phase / | Manual Reset / Class 10 | | | |
| | 0.10.5 | D1AB | CEP7-ED1AB | | | |
| 0.1.11/ 7 0.00 | 0.21.0 | D1BB | CEP7-ED1BB | | | |
| CAUK7-923 CAUK7-9E23E | 1.05.0 | D1CB | CEP7-ED1CB | | | |
| | 3.216 | D1DB | CEP7-ED1DB | | | |
| | 5.427 | D1EB | CEP7-ED1EB | | | |
| 3-Phase / Auto or Manual Reset / Class 10, 15, 20, 30 | | | | | | |
| | 0.10.5 | EAB | CEP7-EEAB | | | |
| CAUK7-923 CAUK7-9E23E | 0.21.0 | EBB | CEP7-EEBB | | | |
| | 1.05.0 | ECB | CEP7-EECB | | | |
| | 3.216 | EDB | CEP7-EEDB | | | |
| | 5.427 | EEB | CEP7-EEEB | | | |

Replace \blacklozenge with one of the following Overload Relays

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.
- 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.
- G CPT not possible with KS7-COS4R (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).

Ordering Instructions

| Specify Catalog Number | | |
|---|--|--|
| Replace (*) with Coil Code | | |
| Replace (♠) with O/L Relay See this page only | | |
| Replace (V) with Pilot Device Option | | |
| | | |

Optional CA7 Modifications (Factory Assembled)

Add to end of

catalog number

-2JE

-2C

-2V

KWIKstarters / Reversing

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

Three Phase Reversing KWIKstarters with CEP7 Overload Relays O

| Enclosure (KS7-C0S4R) | Maximum Horsepower Three Ø | | | Con ⁻ p | iliary tacts er ctor Ø | CUL Approved- Type 1/12/4/4X IP66 | Dimen- sion Code | |
|--------------------------|----------------------------|-------------------------------------|-------|-----------------------|--|---|---------------------------|----|
| | 200V | 230V | 460V | 575V | NO | NC | Catalog Number | 0 |
| (B) | | FVR 3-Phase with Electronic DC Coil | | | | | | |
| Sprecher+ | 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 **46**

| 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) 20

| 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 | -20 |
| Surge Suppressor Varistor | -2V |

Ordering Instructions

| See this page only |
|--------------------|
| |
| |

Replace \blacklozenge with one of the following Overload Relays

| For use with KWIKstarter | Amp Range | Overload Relay Code (♠) | Catalog Number (of Overload Relay used) | | | | |
|-----------------------------|---|-------------------------------|---|--|--|--|--|
| | | 3-Phase / | Manual Reset / Class 10 | | | | |
| | 0.10.5 | D1AB | CEP7-ED1AB | | | | |
| | 0.21.0 | D1BB | CEP7-ED1BB | | | | |
| CAUK7-923 CAUK7-9E23E | 1.05.0 | D1CB | CEP7-ED1CB | | | | |
| 04010-32202 | 3.216 | D1DB | CEP7-ED1DB | | | | |
| | 5.427 | D1EB | CEP7-ED1EB | | | | |
| | 3-Phase / Auto or Manual Reset / Class 10, 15, 20, 30 | | | | | | |
| | 0.10.5 | EAB | CEP7-EEAB | | | | |
| | 0.21.0 | EBB | CEP7-EEBB | | | | |
| CAUK7-923 CAUK7-9E23E | 1.05.0 | ECB | CEP7-EECB | | | | |
| | 3.216 | EDB | CEP7-EEDB | | | | |
| | 5.427 | EEB | CEP7-EEEB | | | | |

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.
- Sefer to page C32 for wiring diagram and C34 for dimensional information.
- O 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).



| | | | | | | | | | | 014 |
|--|--|--|---|---------------------------|--------------------------|-----------------------|---------|-----------------------|--------------------------|------|
| | | | | | | | | | | 070 |
| | | | | | | | | | CBKN7-16- * -◆-P0 | 0396 |
| | $ \begin{array}{c ccccccccccccccccccccccccccccccccccc$ | | | | | | | | | |
| | | | | | | | et with | Elect | UN TOILETTU | |
| | | | | | | ~ | h2 | D ₀ | CBKN | |
| | | | | 1-1/2 2 10 +ionAIR/-12E-* | `AI7-12E- *- ◆-P0 | | | | | |
| | | | ~ | -ic | Do | SC | 99 | | | |
| | | | 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 r | |
| | | | 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



| | | | | | 36E | | | |
|----------|-----|------------------|----------|----------|-----------------|--|--|--|
| | | | | | 485 0 | | | |
| | | | | Common | C Do. | | | |
| | | | | 111 | 22UE | | | |
| | | | | Common | ~ter | | | |
| | | | | Comount | 2 | | | |
| | | | 10 | | | | | |
| eplace 4 | CRE | ICW of the fo | ollowing | Overload | s par arters | | | |
| | 20- | | | | | | | |
| | | | | | | | | |

0. Control circuit are asge and will be connected he table.

18-72% CHION IN SCALE source per the table. Pilot lights are 240 VAC maximum.





| | | | | | | | | | niot devices ne line voltag | 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 | e III | | | | | | | | | |
| A.C. Coil Code 50 Hz 60 Hz CBK7 242 24V 24V Separate 120 110V 120V Common 220W 200-220V 208-240V Common 277 240V 277V Common 415 400-415V ~ Common 415 400-415V ~ Common 415 400-415V Common 400-415V Common 400-41 | | | | | | | | | | |
| | | | | | | | | | | |
| | | | | | | | | | | |

urce and will not be connected to the line

Replace \blacklozenge with one of the following Overload Relays



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-ED1 CEP7-EE | cUL Type 1/12/4/4x IEC IP66 | KS7-COS4 |
| I STORMAN | Blue RESET Only | CA7-923 | CT7N CEP7-ED1 CEP7-EE | cUL Type 1/12/4/4x IEC IP66 | KS7-COS1 |

KWIKstarter Enclosures for use with CA7 Contactors and Overload Relays 00

| | | For | Use With | Environmental | |
|-----------|---|------------------------|--|--------------------------------|----------------|
| Component | Description | Contactor | Overload | Approvals | Catalog Number |
| Booter. | Enclosure for KWIKstarter CAK7/CBK7-3043 CAK7/CBK7-30E43E | CA7-3043 CA7-30E43E | CEP7-ED1CDED1FD CEP7-EECDEEFD CEP7S-EETD | cUL Type 1/12/4/4x IEC IP66 | KS7-C2S4 |
| Diction. | Enclosure for Reversing KWIKstarter CAUK7-923 CAUK7-9E23E | CAU7-923 CAU7-9E23E | CEP7-ED1ABED1EB CEP7-EEABEEEB | 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-COS4 and KS7-COS1 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.



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 Q J | 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-COS4 (Replacement Part) | KS7-PCK |
| | Pushbutton Latch - For maintain contact control (2-wire control) | KS7-COS4 | KS7-PLA |
| | Neutral Terminal | KS7-COS1 KS7-COS4 | KS7-PNT |
| Ţ | 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 luded | |
|------|--|--------------------------------|-------------------------------|--------------------|---|
| Kits | Description | Enclosure | NO | NC | Catalog Number |
| 8 | Multi-Function Pushbutton kit Non-illuminated | | | | |
| | START-STOP I-0 | KS7-C2S4 Type 1, 12, 4, 4X | 1 | 1 | KS7-P3U KS7-P4U |
| | FOR-STOP-REV UP-STOP-DOWN OPEN-STOP-CLOSE | KS7-COS4R 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-ERA can not be used with KS7-C2S4 or KS7-C0S4R. See Section H for more information.



Series CAK7 & CBK7

KWIKstarters with CEP7 Solid State Overload Relay 3-Phase Application ϖ

| For use with KWIKstarter | Amp Range | Overload Relay Code (♠) | Catalog Number (of Overload Relay used) |
|-----------------------------|--------------|-------------------------------|---|
| | 3-Phase | e / Manual Re | set / Class 10 |
| | 0.10.5 | D1AB | CEP7-ED1AB |
| | 0.21.0 | D1BB | CEP7-ED1BB |
| CAK7-9CAK7-23 | 1.05.0 | D1CB | CEP7-ED1CB |
| | 3.216 | D1DB | CEP7-ED1DB |
| | 5.427 | D1EB | CEP7-ED1EB |
| | 3-Phase / | Selectable Fu | nction and Class |
| | 0.10.5 | EAB | CEP7-EEAB |
| | 0.21.0 | EBB | CEP7-EEBB |
| CAK7-9CAK7-23 | 1.05.0 | ECB | CEP7-EECB |
| | 3.216 | EDB | CEP7-EEDB |
| | 5.427 | EEB | CEP7-EEEB |

KWIKstarters with CEP7 Solid State Overload Relay 1-Phase Application ϖ

| For use with KWIKstarter | Amp Range | Overload Relay Code (�) | Catalog Number (of Overload Relay used) |
|-----------------------------|------------------------|-------------------------------|---|
| | 1-Phase / 3 1.0-5.0 | EPB | nction and Class CEP7S-EEPB |
| CBK7-9CBK7-23 | 3.2-16 | ERB | CEP7S-EERB |
| | 5.4-27 | ESB | CEP7S-EESB |

KWIKstarters with CT7N Bimetallic Overload Relays o

| For use with Kwikstarter | Amp Range | Overload Relay Code (♠) | Catalog Number (of Overload Relay used) |
|-----------------------------|--------------|----------------------------------|---|
| KWIKStal tel | 0.100.16 | (¢) AA16 | CT7N-23-A16 |
| | 0.100.16 | | |
| | | AA25 | CT7N-23-A25 |
| | 0.250.40 | AA40 | CT7N-23-A40 |
| | 0.350.50 | AA50 | CT7N-23-A50 |
| | 0.450.63 | AA63 | CT7N-23-A63 |
| | 0.550.80 | AA80 | CT7N-23-A80 |
| | 0.751.0 | AB10 | CT7N-23-B10 |
| | 0.901.3 | AB13 | CT7N-23-B13 |
| CAK7-9CAK7- | 1.11.6 | AB16 | CT7N-23-B16 |
| 23 and | 1.42.0 | AB20 | CT7N-23-B20 |
| CBK7-9CBK7- | 1.82.5 | AB25 | CT7N-23-B25 |
| 23 | 2.33.2 | AB32 | CT7N-23-B32 |
| Frame "A" | 2.94.0 | AB40 | CT7N-23-B40 |
| Fiallie A | 3.54.8 | AB48 | CT7N-23-B48 |
| | 4.56.3 | AB63 | CT7N-23-B63 |
| | 5.57.5 | AB75 | CT7N-23-B75 |
| | 7.210 | AC10 | CT7N-23-C10 |
| | 9.012.5 | AC12 | CT7N-23-C12 |
| | 11.316 | AC16 | CT7N-23-C16 |
| | 1520 | AC20 | CT7N-23-C20 |
| | 17.521.5 | AC21 | CT7N-23-C21 |
| | 2125 | AC25 | CT7N-23-C25 |

• If using CT7N in single phase application with CBK7-9...23, wire per drawing on page C31.

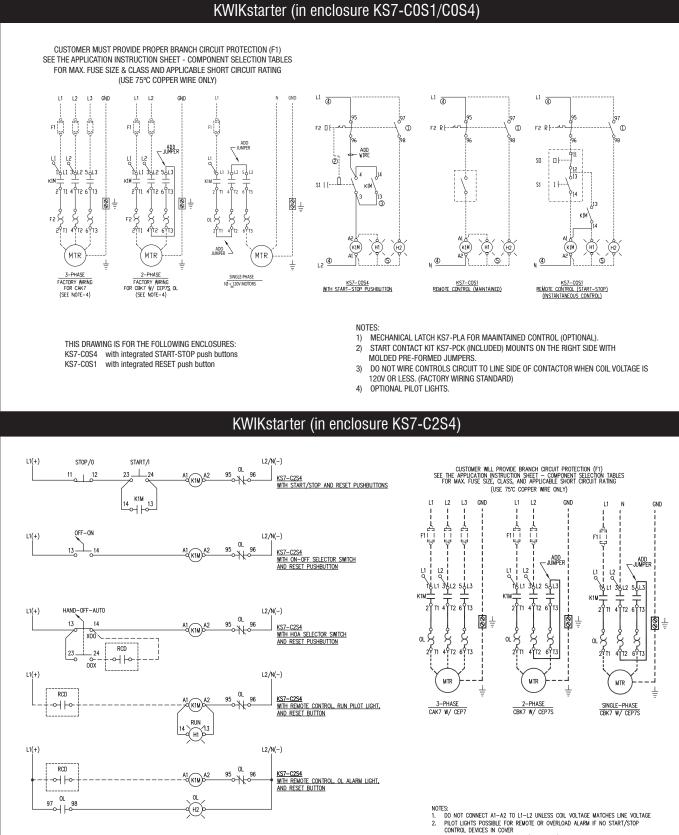
• CEP7 Overloads are available for use in KWIKStarters if the premium features are required (see Section B).

^{● 3-}phase CEP7-ED or CEP7-EE units are only designed for 3 applications. Single phase CEP7S units are only

designed for 1 applications. If using CEP7S, wire per drawing on page C31.

Wiring Diagrams

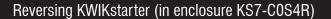
KWIKstarters

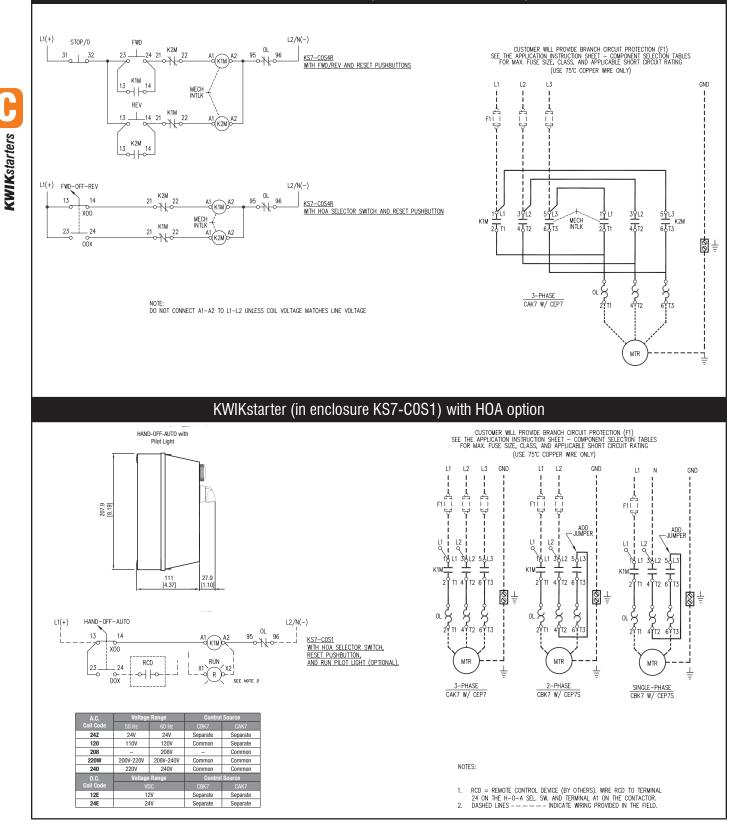


sprecher+ schuh



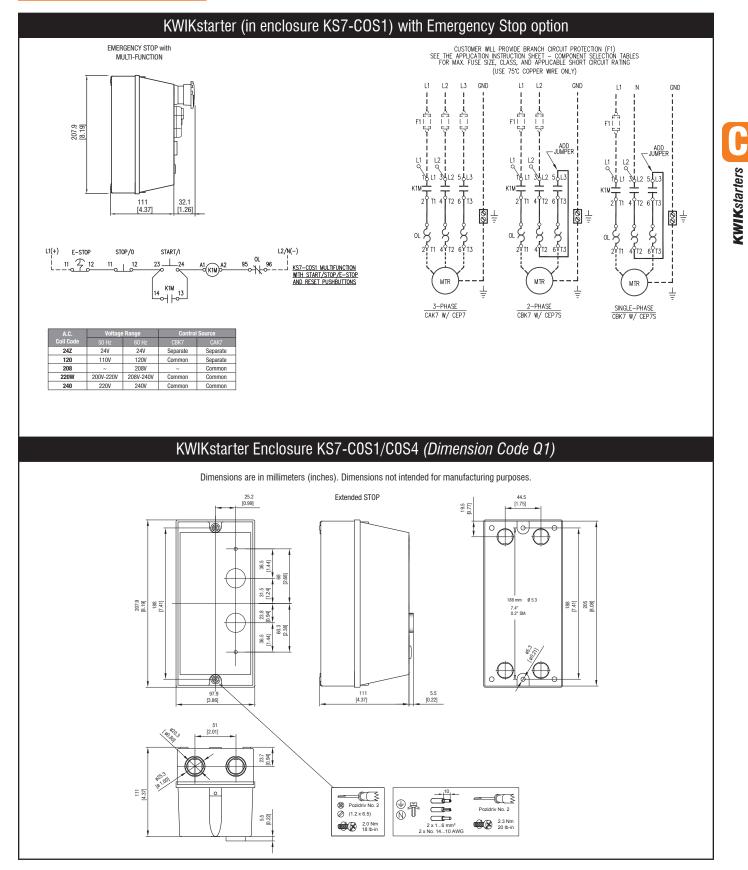
Wiring Diagrams







Dimensions





KWIKstarters

Dimensions

