MINI CONTACTORS
STARTERS
POWER RELAYS

POSITIVE GUIDED RELAYS & CONTACTORS
**MINI CONTROLLER/STARRERS**

**TYPE LS05 - TYPE B05**

(20 Amps General Purpose)

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**MINI CONTROLLER**

Type LS05 Ratings

- **Maximum HP Ratings**
  - 200 Volt: 3 HP
  - 230 Volt: 3 HP
  - 460 Volt: 5 HP
  - 600 Volt: 5 HP

- 1 Phase
  - 110 Volt: 1/2 HP
  - 220 Volt: 1.5 HP

- 15 AMP INDUCTIVE AC-1 20 Amp *NOTE: 20 Amp General Purpose.

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**MINI STARTER**

- Single Phase
- Three Phase

**MINI REVERSING CONTROLLER**

- Three Phase

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**MINI REVERSING STARTER**

- Single Phase
- Three Phase

---

**OPEN 3 POLE**

<table>
<thead>
<tr>
<th>Type</th>
<th>NEMA 1 General Purpose</th>
<th>NEMA 4X**</th>
<th>Outdoor Dust Tight</th>
<th>Auxiliary Contacts NO NC</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS05.10-0</td>
<td>$40 List</td>
<td>$109 List</td>
<td>$132 List</td>
<td>1 0</td>
</tr>
<tr>
<td>LS05.01-0</td>
<td>$40 List</td>
<td>$109 List</td>
<td>$132 List</td>
<td>0 1</td>
</tr>
<tr>
<td>Standard Screw Down Pressure Plate Terminal</td>
<td>1 0</td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Standard Screw Down Pressure Plate Terminal**

- Price

- With Pressure Wire Screws Terminals

- With Flat Plug (Spade) Connectors

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**TYPE B05 OVERLOAD RELAY**

- Side Mount
- Front Mount

**TYPE HS AUXILIARY**

- Side Mount
- Front Mount

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**LS05 Accessory Kits**

- Mechanical Interlock
- LS05-VB05

- Auxiliary Contacts 10 Amp 600V

- Normally Open
- Normally Closed

- List

- Side Mount
  - 1 0
  - 0 1

- Front Mount
  - 1 2
  - 0 4

- Timing Module
  - 12-60 VAC
  - 90-240 VAC

---

Type B05 Overload has 1NC, pilot circuit contact included. If a N.O. additional contact is needed, P/N HB05-143 includes a N.O. Alarm Contact. See Below.

**COIL VOLTAGE SUFFIX**

- **AC**
  - 60HZ
  - 50HZ

- **-A**
  - 120V

- **-C**
  - 208V/230V

- **-E**
  - 480V

- **-F**
  - 600V

- **-D**
  - 380V

- **-G**
  - 24V

- **-H**
  - 280V/277V

- **DC**
  - *Price

- **-MSW**
  - 12VDC

- **-NSW**
  - 24VDC

- **-OSW**
  - 48VDC

- **-PSW**
  - 120VDC

- **-RSW**
  - 220VDC

---

**RESET EXTENDER**

- HB05-143 REQUIRED for overload use with external reset operation by reset plunger. Includes N.O. Aux. Alarm Contact.

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**Surge Suppressor**

12-60 Vac: LS05-EB05-60
2 Parallel: LS05-EB05
8 Parallel: LS05-EB05-240

**Spares Coils**

- See coil voltage suffix

Discount Schedule ST
Type LS05, SH05, and HS05 (frame size I, Lateral) with screw terminals.

Voltage Suppression model type EB05 for frontal plug on. Delayed closing module Type EV05

Overload relay type B05 for mounting on contactors.
MINI STARTERS TYPE XLS07 with TYPE B05 OVERLOADS

TYPE 4X ENCLOSED STARTERS. Type XLS starters are UL/CSA Listed starters enclosed in type 4X U.L. Listed enclosures. Type 4X enclosures are designed for outdoor/hose down/dust tight applications and are non-metal corrosion resistant.

Option: Contactors can be supplied with plug-on spade connectors or terminal wire pin connectors.

EXAMPLE: Catalog No. XLS07 - A - F
(Full Voltage Starter A - 120V Coil, F - .85 - 1.3 Amp Overload)

Note: RXLS07 only available in AC coil voltage. For DC mini reversing see RXLS05 Page 72

**COIL VOLTAGE SUFFIX**

<table>
<thead>
<tr>
<th>H.P. RATING</th>
<th>AMPS (OPEN)</th>
<th>Resitive</th>
<th>Cat. No.</th>
<th>OPEN LIST</th>
<th>TYPE M1 NEMA1 LIST</th>
<th>TYPE 4X NEMA 4X LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>115V 230V</td>
<td>Single Phase Starter</td>
<td>16A Non Reversing</td>
<td>XLS07.10-</td>
<td>-40-*** $91</td>
<td>-42-1-*** $163</td>
<td>-44X-*** $186</td>
</tr>
<tr>
<td>115V 230V</td>
<td>Single Phase Starter</td>
<td>16A Reversing</td>
<td>SRXLS07.10-</td>
<td>-40-*** $91</td>
<td>-42-1-*** $163</td>
<td>-44X-*** $186</td>
</tr>
<tr>
<td>208V 230V 460V</td>
<td>Three Phase Starter</td>
<td>16A Non Reversing</td>
<td>XLS07.10-</td>
<td>-40-*** $91</td>
<td>-42-1-*** $163</td>
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</tr>
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<td>-40-*** $91</td>
<td>-42-1-*** $163</td>
<td>-44X-*** $186</td>
</tr>
</tbody>
</table>

List Price includes three heaters

- ✓ All Mini Reversing units are supplied less wiring. Add $25.00 list for factory wiring. Add suffix -W to catalog number.

**STANDARD FEATURES**

TYPE B05 OVERLOADS - The Reliable Motor Protectors

- Direct Heated Bimetals
- Ambient Compensated
- -20°C to + 60°C
- Plug-On O.L. Block
- Optional Separate Mount
- NO & NC Contacts
- 600 Volt Rated
- Sealable Precision Setting
- Protected Heaters
- 100% Factory Set
- NEMA Class 10

**MINI OVERLOADS**

B05-***

Required for external reset

Plug-On overload Unit

(Plug-On overload included as standard when complete starter is purchased.)

#B05-*** $55 LIST

Separate Mount O.L. Adaptor

#B05-141-142 $13 LIST

Plate Adaptor for assembling O.L. Type #B05 to Minicontactor LS07

(Plate adaptor is included as standard when complete starter is purchased.)

#B05-LS07-ADPT $1.50 LIST

Plate Adaptor is not needed when XLS07/B05 Starter is DIN Rail mounted.

HB05-143 REQUIRED for overload use with external reset operation by reset plunger.

N.O. Aux. Alarm Contact HB05 - 143 $13.00 List

Discount Schedule ST

**Technical Data**

Rated insulation voltage 600V, Resistive Amps 16A

Mechanical life endurance For AC operation: 4 million operation cycles

For DC operation: 10 million operation cycles

AC1 duty Resistive Admissible operational frequency: 50 operations/hour

Contact life expectation under full load andrated operational current: 150,000 ops (16 Amp)

AC3 duty Motor Load Allowed frequency of operations at full load and uninterrupted duty: 3000 ops/h

Contact life expectation under full load at rated power am AC 3 duty: 400,000 operations

AC 11 duty Heavy Pilot Duty 10 Amp Rated make/break capacity up to 200V 60A

Allowed frequency of operations at full load and uninterrupted duty: 600 ops/h

DC 11 duty Standard Duty Short Circuit Protection Max. back-up fuse: 16A slow

Coil Ratings

For AC operation: Pick-up/sealing 16VA/4.9VA (voltage tolerance -25% - +10%)

For DC operation: Pick-up/sealing 2.4W (voltage tolerance -15% - +10%)

(for 24V: 1.2W for operating range 0.8 to 1.7V)

(for special version consult factory)

Switching times for 1.0V

for AC operation closing delay 9 to 30 milliseconds opening delay 5 to 25 milliseconds

for DC operation closing delay 10 to 35 milliseconds opening delay 2 to 8 milliseconds

RXLS07 only available in AC coil voltage. For DC mini reversing see RXLS05 Page 72
MINI-CONTACTORS
TYPE LS07

POSITIVE GUIDED TYPE SH04 RELAYS
AND TYPE LS07 CONTACTORS
Certified as Positive Guided
AEG Relays and Contactors

1. Independent Test Lab Certified per IEC 947-5-1
2. 100% Quality Tested per IEC 947-5-1

H.P. RATING

<table>
<thead>
<tr>
<th>1 Phase</th>
<th>3 Phase</th>
</tr>
</thead>
<tbody>
<tr>
<td>115V</td>
<td>208V</td>
</tr>
<tr>
<td>230V</td>
<td>230V</td>
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<tr>
<td>460V</td>
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AMPS (OPEN) Resistive

<table>
<thead>
<tr>
<th>Cat. No.</th>
<th>OPEN LIST</th>
</tr>
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<tbody>
<tr>
<td></td>
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<table>
<thead>
<tr>
<th></th>
<th>TYPE MI NEMA1 LIST</th>
<th>TYPE 4X LIST</th>
</tr>
</thead>
<tbody>
<tr>
<td>NO</td>
<td>NC</td>
<td>NC</td>
</tr>
</tbody>
</table>

|         |          |          |
|         |          |          |

CONTACT CODE

<table>
<thead>
<tr>
<th>CONTACT CODE</th>
<th>POWER N.O.</th>
<th>N.C.</th>
<th>AUXILIARIES N.O.</th>
<th>N.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS07.10</td>
<td>3</td>
<td>-</td>
<td>1</td>
<td>-</td>
</tr>
<tr>
<td>LS07.01</td>
<td>3</td>
<td>-</td>
<td>-</td>
<td>1</td>
</tr>
<tr>
<td>LS07.22</td>
<td>2</td>
<td>2</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>LS07.40</td>
<td>4</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
</tbody>
</table>

SPADE CONNECTOR
(Single or Double Spade)
Check with factory for cost.

DC OPERATED MINI CONTACTOR TYPE LS07
3 Pole Non-Reversing

<table>
<thead>
<tr>
<th>CONTACT CODE</th>
<th>POWER N.O.</th>
<th>N.C.</th>
<th>AUXILIARIES N.O.</th>
<th>N.C.</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS07.10</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>LS07.01</td>
<td>3</td>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>LS07.22</td>
<td>2</td>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>LS07.40</td>
<td>4</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
</tbody>
</table>

AMPS (OPEN)

<table>
<thead>
<tr>
<th>AMPS</th>
</tr>
</thead>
<tbody>
<tr>
<td>16A</td>
</tr>
</tbody>
</table>

TYPE LS07 MINICONTACTOR

DESCRIPTION

Minicontactor Type LS07, designed for motor control, and distinct small size. As such, they are recommended for space saving in industrial control, electronic control and distribution systems.

The Type LS07 Minicontactor has been proven dependable on both three phase and single phase systems when controlling motor loads. LS07 is particularly recommended for metal and woodworking machines, for textile and construction machinery and other commercial and industrial applications. Other loads for minicontactors are resistive, such as heating and lighting circuits, or inductive loads represented by solenoid valves and clutch couplings.

For TYPE LS05 - MINI Contactor, 20 Amp 600V, see LS05 Miniature Contactor System.

CONTACT CONFIGURATION

For TYPE LS05 - MINI Contactor, 20 Amp 600V, see LS05 Miniature Contactor System.
Type SH05 Mini Relays are designed for compact applications. The SH05 versatile Relay Accessories provide side mount as well as top mount auxiliaries, voltage suppressors, electronic timers and the means to mechanically interlock two relays. The combination of added auxiliaries give the adaptability to operate up to 10 poles Max.

**Technical Data**

(SH05 Relay)
16 Amps thermal lth
Operational temperature (-40 c - + 60 c)
Rated insulation voltage 660v
Mechanical life 10,000,000
Permissable switching frequency 1,200 opt hour
Terminal torque: 0.8Nm (7 lb in)
Wire size capability - standard 0.75-2.5(x2) 18 -14 gage
solid 0.75 - 2.2(x2) 18 - 14 gage
Coil power consumption (AC) pick up -26VA
sealed - 4 va
Coil operating limits - (DC) pick up 3-watts
sealed 3 - watts
* Min operational power 5MA 17V
**(Special interface version available 1.2 watt 24 VDC.

**Approvals**

IEC / EN 60947-5-1
VDC 0660

**Contact Configuration**

**External Auxiliary Contacts**

10 Amp lth (thermal)
Rated voltage and rated current Ue - Ie (IEC)
AC-15 according to IEC 60947
110/120V - 6A
220/240V - 6A
380/400V - 3A
500V - 1A
660/680V - 1A
DC-13 according to IEC 60947
24V - 4A
48V - 2A
110V - 0.7A
220V - 0.3A
440V - 0.1A
according to UL, CSA A600
Q600

Discount Schedule ST
MINI RELAYS - POSITIVE GUIDED DESIGN
FOR SAFETY CIRCUITS

Type SH05 Mini Relays are ideal for Auxiliary wiring and remote control schemes. Taking as little as 2 Watts pick up, the 24 Volt DC Mini Relay and Mini Contactor LS07 are ideal for operation of most electronic control systems as an interface relay. Mini Relay SH05 is certified as a “Positive Guided Design” per the IEC 947-5 standard and are independent test laboratory Certified.

Ordering - Replace asterisk * with coil voltage suffix from suffix chart below.
Part# Example:
2 N.O./N.C. 16 Amp Relay 120 Vac Coil
Part # SH05. 22-A

<table>
<thead>
<tr>
<th>Contacts</th>
<th>NO</th>
<th>NC</th>
<th>AC Operated</th>
<th>DC Operated</th>
</tr>
</thead>
<tbody>
<tr>
<td>SH05. 22-*</td>
<td>2</td>
<td>2</td>
<td>$40</td>
<td>$50</td>
</tr>
<tr>
<td>SH05. 31-*</td>
<td>3</td>
<td>1</td>
<td>$40</td>
<td>$50</td>
</tr>
<tr>
<td>SH05. 40-*</td>
<td>4</td>
<td>0</td>
<td>$40</td>
<td>$50</td>
</tr>
</tbody>
</table>

With Pressure Wire Screw Terminals

With Flat Plug (spade) Connectors

With Pressure Wire Screw Terminals

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Part Number</th>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-60 VAC</td>
<td>LS05-EV05-60</td>
<td>$66</td>
</tr>
<tr>
<td>90-240 VAC</td>
<td>LS05-EV05-240</td>
<td>$66</td>
</tr>
</tbody>
</table>

Timers

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Part Number</th>
<th>List</th>
</tr>
</thead>
<tbody>
<tr>
<td>12-60 VAC</td>
<td>LS05-EV05-60</td>
<td>$66</td>
</tr>
<tr>
<td>90-240 VAC</td>
<td>LS05-EV05-240</td>
<td>$66</td>
</tr>
</tbody>
</table>

Timer Module can be top mounted or side mounted to any SH05/LS05 Relay/Contactor. (AC/DC)

Replacement Coils

<table>
<thead>
<tr>
<th>Part Number</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS05 - EB05</td>
<td>$6</td>
</tr>
</tbody>
</table>

Parallel Pole Connector

Jumpers

<table>
<thead>
<tr>
<th>Part Number</th>
<th>List Each</th>
</tr>
</thead>
<tbody>
<tr>
<td>LS05 - EB05</td>
<td>$6</td>
</tr>
</tbody>
</table>

* Coil Voltage Suffix

AC* 60HZ 50HZ

- A 120V 110V
- C 208V/230V 220V
- E 480 V 440V
- F 600V 550V
- D 380V 22V
- G 24V 22V
- H 280V/277V 240V

DC*

- MSW 12VDC
- NSW 24VDC
- OSW 48VDC
- PSW 120VDC
- RSW 220VDC

**Discount Schedule ST**

p.77
20 Amp AC & DC Positive Guided Relays

Space Saving Dimensions

Positive Guided
Type SH5 Relays (4 pole)

User Benefits
SH5 Relays are loaded with features permitting convenient to installation and allow more flexible configurations.
They conform to both international standards and US approvals. SH5 Relays included duel (US / European) marking to assure global acceptance.

Available Worldwide
Recognized as one of the leading heavy duty industrial product lines. Type SH relays are available in over 100 countries including every industrial nation.

Industry Accepted & Preferred
Reliability demanding industries steel, oil, cement, chemical, automotive, widely use and demand type SH controls in their systems.

<table>
<thead>
<tr>
<th>Part # with AC Coil</th>
<th>Poles</th>
<th>AC Coil Operation</th>
<th>DC Coil Operation</th>
</tr>
</thead>
<tbody>
<tr>
<td>Basic 4 pole</td>
<td>4</td>
<td>$62</td>
<td>$90</td>
</tr>
<tr>
<td>SH5.40-*</td>
<td>3</td>
<td>$62</td>
<td>$90</td>
</tr>
<tr>
<td>SH5.04-*</td>
<td>0</td>
<td>$62</td>
<td>$90</td>
</tr>
<tr>
<td>SH5.22-*</td>
<td>2</td>
<td>$62</td>
<td>$90</td>
</tr>
</tbody>
</table>

Adder poles Auxiliaries
10 Amps 4pole(top mount) (A600) Max Aux.

| LK-HS7K.10         | 1     | $12               | $12               |
| LK-HS7K.01         | 0     | $12               | $12               |

*Auxiliaries not positive guided

Auxiliaries (Side Mount)
10 Amps(A600)

| LK-HS8K.11         | 1     | $22               | $22               |
| LK-HS8K.20         | 2     | $22               | $22               |

*Auxiliaries not positive guided

Contact Rating Per Pole

<table>
<thead>
<tr>
<th>Max Voltage</th>
<th>AC-15</th>
<th>CONTINUOUS CARRYING CURRENT</th>
</tr>
</thead>
<tbody>
<tr>
<td>230</td>
<td>10</td>
<td>20 AMP</td>
</tr>
<tr>
<td>400</td>
<td>10</td>
<td>1 th</td>
</tr>
<tr>
<td>480</td>
<td>5</td>
<td></td>
</tr>
<tr>
<td>600</td>
<td>4</td>
<td></td>
</tr>
</tbody>
</table>

DC - 13 Amp Ratings

| 24 V       | 6A    | 20 AMP                      |
| 48 V       | 4A    | 1 th                        |
| 110 V      | 2A    |                              |
| 220 V      | 0.7A  |                              |
| 440 V      | 0.35A |                              |

*Coil Voltage Suffix

Discount Schedule ST

Part # example SH5.40 - A = 120 VAC Coil

User Benefits

Type
For critical safety circuits, self checking duplicate circuits can be required. The following type SH multipole relays have positive guided contacts. This “Positive Guided Design” Assures that no Normally Open contacts may be simultaneously closed with Normally closed contacts. In the event that a normally open contact welds in, the Normally closed contact will have a minimum Gap of 0.5mm.

“Positive Guided” contacts are not positive break or positive opening contacts.

* Added Auxiliaries to SH5 relays DO NOT meet positive guided safety circuit standards.
*Per the IEC safety standard (IEC 947-5-1)
BREAKER and FUSIBLE COMBINATIONS
Type FCXLSK and BCXLSK

• Combinations include type XLS starter and overload relay complete with precision ambient compensated heaters and differential single phasing protection.

• All combination controls are included with safety door interlock and padlockable operators.

Conformity to Standards
IEC 947-4-1
VDE 0660
EN 60947
BS 5424
UL508
Fusible /Non Fusible Combination Controls

A. UL/CSA Manual Motor Disconnect with door safety interlocks. Industrial Controls Disconnects are load make, load break, UL Listed for motor load switching duty.

B. Fuse Blocks are type“J” as standard. For “R” Type, insert at end of part number “R” (same list price), for type cc 30 Amp fuse block - add “cc”.

C. Type XLSK Starter and overload relay complete with precision ambient compensated heaters and differential single phasing protection.

<table>
<thead>
<tr>
<th>Voltage</th>
<th>Design Rating Max HP</th>
<th>Fuse Block Amps</th>
<th>Catalog No. Type FC XLS-</th>
<th>(Metal) General Purpose NEMA1-M01</th>
<th>(Non Metal) Dust tight Outdoor NEMA4X-M4</th>
<th>(Metal) Dust Tight NEMA 12/4-M4</th>
<th>Non Fusible Omit Fuse Block Deduct NFCXLS</th>
</tr>
</thead>
<tbody>
<tr>
<td>200/230</td>
<td>5</td>
<td>30</td>
<td>7K-1-<em>-</em>-*</td>
<td>$510</td>
<td>$620</td>
<td>$620</td>
<td>$ - 26</td>
</tr>
<tr>
<td>460</td>
<td>10</td>
<td>30</td>
<td>7K-2-<em>-</em>-*</td>
<td>$510</td>
<td>$620</td>
<td>$620</td>
<td>$ - 26</td>
</tr>
<tr>
<td>230</td>
<td>7/2</td>
<td>60</td>
<td>11K-1-<em>-</em>-*</td>
<td>$545</td>
<td>$690</td>
<td>$690</td>
<td>$ - 26</td>
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<tr>
<td>460</td>
<td>15</td>
<td>30</td>
<td>11K-2-<em>-</em>-*</td>
<td>$545</td>
<td>$690</td>
<td>$690</td>
<td>$ - 26</td>
</tr>
<tr>
<td>200</td>
<td>10</td>
<td>60</td>
<td>15K-1-<em>-</em>-*</td>
<td>$700</td>
<td>$790</td>
<td>$790</td>
<td>$ - 26</td>
</tr>
<tr>
<td>230</td>
<td>10</td>
<td>60</td>
<td>15K-2-<em>-</em>-*</td>
<td>$700</td>
<td>$790</td>
<td>$790</td>
<td>$ - 26</td>
</tr>
<tr>
<td>460</td>
<td>20</td>
<td>60</td>
<td>15K-3-<em>-</em>-*</td>
<td>$700</td>
<td>$790</td>
<td>$790</td>
<td>$ - 26</td>
</tr>
<tr>
<td>200/230</td>
<td>15</td>
<td>100</td>
<td>22K-1-<em>-</em>-*</td>
<td>$850</td>
<td>$990</td>
<td>$990</td>
<td>$ - 26</td>
</tr>
<tr>
<td>460</td>
<td>30</td>
<td>60</td>
<td>22K-2-<em>-</em>-*</td>
<td>$850</td>
<td>$990</td>
<td>$990</td>
<td>$ - 26</td>
</tr>
<tr>
<td>200/230</td>
<td>20/25</td>
<td>100</td>
<td>37K-1-<em>-</em>-*</td>
<td>$1,170</td>
<td>$1,430</td>
<td>$1,430</td>
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<tr>
<td>200/230</td>
<td>25/30</td>
<td>100</td>
<td>45K-1-<em>-</em>-*</td>
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<tr>
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<td>200</td>
<td>55K-1-<em>-</em>-*</td>
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<td>$2,660</td>
<td>$2,660</td>
<td>$ - 88</td>
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<tr>
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<td>200</td>
<td>75K-1-<em>-</em>-*</td>
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<td>$3,280</td>
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</tr>
<tr>
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<td>60/75</td>
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</table>

Check With Factory

Steps to Order Motor Starter:

Step 1 - Size Choose from the UL HP and Voltage list per your application.

For Example: 5 HP 230V 3 Phase Part# FC XL7K-1*

Step 2 - Coil * From the coil suffix chart on next page select the appropriate coil suffix

For Example: 120 VAC Coil = A Part # FC XL7K-1A-

Step 3 - Overload Amps** This step requires a suffix for your overload protection, refer to “OVERLOAD RELAY SUFFIX TABLE”Next Page.

(Example : 5HP @ 230V 3 Phase, if 13 full load Amps= Suffix “N”)

Step 4 - Enclosure specify “open” or “enclosed” requirements.

For Example if NEMA 12 Complete Part # FCXL7SK - 1A - N-M4

For Factory Installed Additions
See Page#38, 39 Special Features
Include:
Transformers - Primary, secondary
Fusing included
Pilot Lights
HOA, Start/Stop, on off selector switches, etc.
Time Delay Relays
Phase Loss, Reverse Phase, Voltage Monitors.