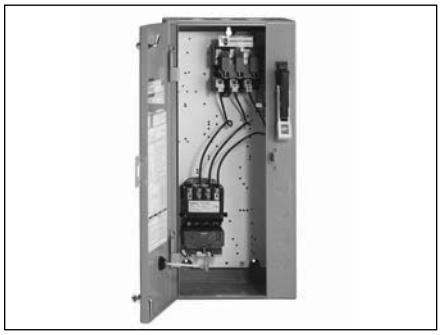
Combination Heavy Duty Starters

Features and Benefits

General



Combination Starter Features

Combination starters include the following features:

- Manufactured with Cold Forming "TOX" Process
- Solid State Overloads Standard on Sizes 5–8
- Easy to Install
- Wide Range of Enclosure Types Available
- Heavy Duty Quarter Turns
- 100kA Short Circuit Current Rating when Protected with Class R Fuses to 600V or MCP to 480V
- Visible Blade Disconnect
- Industrial Type Disconnect Handle
- UL listed file #E185287 (class 17, 18, 25, 26 & 32)
- CSA certified file #LR 6535 (class 17, 18, 25, 26 & 32)

Application

A combination starter meets National Electrical Code requirements for:

1. A means of providing short circuit motor protection with fused or breaker disconnection of line voltage.

2. A means of safeguarding personnel from contact with live parts and from accidental starting of machinery by disconnecting the motor and the controller.

3. A motor controller with overload protection.

Prewired combination starters eliminate the cost of wiring between separate disconnect and starter. Factory testing assures field performance. Combination starters also provide a more compact and attractive installation than separate units.

Enclosure Types

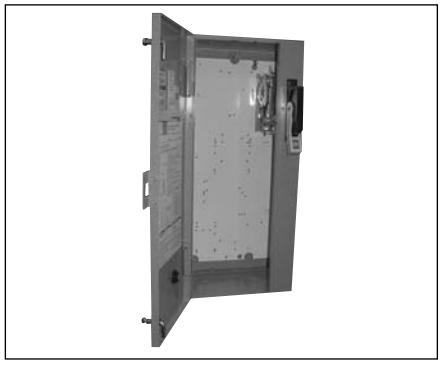
Combination starters are available in NEMA 1, 12/3/3R/4 (painted), 4/4X (stainless), 4X fiberglass and 7 & 9 enclosures. Enclosures protect personnel from contact with live parts and depending upon the construction, protect the control in varying degrees from physical damage and harmful atmospheres. All enclosures are supplied with corrosion resistant finishes.

Heavy Duty Disconnect Switches

The disconnect switch that goes the distance in durability, performance and reliability has the following advantages:

- Visible blades for the highest level of safety
- Double break switching action to reduce arcing, increase lifetime and eliminate the "electric hinge"
- More rugged positive action switch
- Oversized lugs are standard
- Line side shield to help guard personnel from contact with live parts
- Higher horsepower rating for design E high efficiency motors
- UL listed for IIsco, Burndy and T&B crimp type lugs
- The 200A switch accepts up to 300 MCM versus 250 MCM wire size

Its rugged construction - with a high fault withstand rating of 100kA at 600 VAC when fused with class R rated fuses - meets the most stringent industry standards set forth by the automotive, petro-chemical, and pulp and paper industries. UL recognized and CSA certified, our disconnect switches are available either non-fusible or fusible with class R and class J fuse clips.



Enclosure Kits for NEMA Combination Starters Description

You can assemble a non-stocked combination starter per your unanticipated needs in minutes. Say, for example, your customer needs a fusible combination starter that you don't have in stock. You need in now, but don't sweat it.

Simply start with the enclosure kit which has the handle preinstalled. You install the required starter and fusible disconnect, connect the power wire and you are finished. Within minutes, you have the required combination starter in your hands. No more waiting on the factory. You need it, your got it!

What Is In It For You!

- **Reduce Lead-time -** What used to take days to get now takes minutes
- **Reduced Inventory -** Instead of stocking scores of various combination starters, simply stock a few enclosure kits, disconnect kits, circuit breaker kits and open starters. With these basic "building blocks" you virtually have hundreds of products on-hand
- **Quality -** The same high level of quality you have been accustomed to with our products will also be found in these new enclosure kits
- **UL Listed -** By correctly following the instructions included with the kits, the product you build is UL/CSA Listed

Refer to page 17-104 for more details.

Siemens Type ETI Circuit Breaker

The ETI circuit breaker is a device designed specifically for application in motor circuits. The ETI is a magnetic only protective device designed to provide protection against short circuit current.

The instantaneous-only type ETI circuit breaker employs adjustable magnetic trip settings to allow broader application ranges and a higher degree of motor short circuit protection.

Heavy Duty Starters

These combination starters use the same starters described in the heavy duty starter section of this catalog.

Combination Heavy Duty Starters

Non-Fusible with Solid State Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- For Fusible Styles see page 17-21.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3 Phase, 3-Pole

Max Hp						Overload			Enclosure							
									NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)⑪		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 12, NEMA 3/3R②, NEMA 4 Painted (thru size 4) Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Amp Range	Frame Size	Disc. Amp Range	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
⅛	⅛	½	½	0	—	0.25–1	A	30	**17CUA92B***		**17CUA92W***		**17CUA92F***		**17CUA92N***	
½	¾	1½	2	0	—	0.75–3.4	A	30	**17CUB92B***		**17CUB92W***		**17CUB92F***		**17CUB92N***	
2	2	5	5	0	—	3–12	A1	30	**17CUC92B***		**17CUC92W***		**17CUC92F***		**17CUC92N***	
3	3	—	—	0	—	5.5–22	A1	30	**17CUD92B***		**17CUD92W***		**17CUD92F***		**17CUD92N***	
⅛	⅛	½	½	1	—	0.25–1	A	30	**17DUA92B***		**17DUA92W***		**17DUA92F***		**17DUA92N***	
½	¾	1½	2	1	—	0.75–3.4	A	30	**17DUB92B***		**17DUB92W***		**17DUB92F***		**17DUB92N***	
2	2	5	5	1	—	3–12	A1	30	**17DUC92B***		**17DUC92W***		**17DUC92F***		**17DUC92N***	
3	3	10	10	1	—	5.5–22	A1	30	**17DUD92B***		**17DUD92W***		**17DUD92F***		**17DUD92N***	
7½	7½	—	—	1	—	10–40	A1	60	**17DUE92B***		**17DUE92W***		**17DUE92F***		**17DUE92N***	
10	10	15	15	—	1¼	10–40	A1	60	**17EUE92B***		**17EUE92W***		**17EUE92F***		**17EUE92N***	
10	15	25	25	2	—	13–52	B	60	**17FUF92B***		**17FUF92W***		**17FUF92F***		**17FUF92N***	
15	20	30	30	—	2½	25–100	B	100③	**17GUG92B***		**17GUG92W***		**17GUG92F***		**17GUG92N***	
20④	25⑤	50	50	3	—	25–100	B	100	**17HUG92B***		**17HUG92W***		**17HUG92F***		**17HUG92N***	
30	40	75	75	—	3½	50–200	B	200	**17IUH92B***		**17IUH92W***		**17IUH92F***		**17IUH92N***	
40	50	100	100	4	—	50–200	B	200	**17JUH92B***		**17JUH92W***		**17JUH92F***		**17JUH92N***	
75	100	200	200	5	—	55–250	—	400⑥	**17LPU92B***		**17LPU92E*⑦**		—	—	**17LPU92N***	
150	200	400	400	6	—	160–630	—	800	**17MPX92B***		**17MPX92E*⑦**		—	—	**17MPX92N***	
—	300	600	600	7⑨	—	400–1220	A1+CT	1200	**17NUN92B***		—	—	—	—	**17NUN92N***	
—	450	900	900	8⑩	—	400–1220	A1+CT	1600	**17PUN92B***		—	—	—	—	**17PUN92N***	

Standard Width Enclosure, Single Phase, (Catalog Numbers are three phase, wire for single phase in the field)

Max Hp				Overload			Enclosure							
							NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Stee (Optional)⑪		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 12, NEMA 3/3R②, NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
115 Volts	208 230 Volts	NEMA Size	Half Size	Amp Range⑧	Frame Size	Disc. Amp Range	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
⅛	¼	0	—	0.75–3.4	A	30	**17CUB92B***		**17CUB92W***		**17CUB92F***		**17CUB92N***	
¼	½	0	—	3–12	A1	30	**17CUC92B***		**17CUC92W***		**17CUC92F***		**17CUC92N***	
1	2	0	—	5.5–22	A1	30	**17CUD92B***		**17CUD92W***		**17CUD92F***		**17CUD92N***	
⅛	¼	1	—	0.75–3.4	A	30	**17DUB92B***		**17DUB92W***		**17DUB92F***		**17DUB92N***	
¼	½	1	—	3–12	A1	30	**17DUC92B***		**17DUC92W***		**17DUC92F***		**17DUC92N***	
1	2	1	—	5.5–22	A1	30	**17DUD92B***		**17DUD92W***		**17DUD92F***		**17DUD92N***	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters or in starter sizes 5–8.
② For conduit hubs and conversion instructions, see page 17-99.
③ For 60A disconnect, order fusible cat. no. page 17-21.
④ For 25 HP and 200A disconnect, order fusible cat. no. page 17-21.
⑤ For 30HP and 200A disconnect, order fusible cat. no. page 17-21.
⑥ For 600A disconnect, order fusible cat. no. page 17-21.
⑦ Enclosure is NEMA Type 4 (painted steel).
⑧ For a single phase motor, multiply the motor nameplate by 0.75 and set the OL dial to the resulting value.
⑨ F coil 100-250V AC 50/60Hz, or DC, H coil 150-500V AC 50/60Hz, or DC
⑩ Only available F coil 100-250V AC 50/60Hz, or DC
⑪ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

Non-Fusible with Solid State Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- For Fusible Styles see page 17-22.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Extra Wide Enclosure, 3-Phase, 3-Pole

Hp						Overload			Enclosure					
									NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)⑥		**NEMA 12, NEMA 3/3R**②**, NEMA 4 Painted** Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	**230 Volts**	**460 Volts**	**575 Volts**	**NEMA Size**	**Half Size**	**Amp Range**	**Frame Size**	**Disc. Amp Range**	**Catalog Number**	**List Price $**	**Catalog Number**	**List Price $**	**Catalog Number**	**List Price $**
⅛	⅛	⅓	½	0	—	0.25–1	A	30	**17CUA82B***		**17CUA82W***		**17CUA82N***	
½	¾	1½	2	0	—	0.75–3.4	A	30	**17CUB82B***		**17CUB82W***		**17CUB82N***	
2	2	5	5	0	—	3–12	A1	30	**17CUC82B***		**17CUC82W***		**17CUC82N***	
3	3	—	—	0	—	5.5–22	A1	30	**17CUD82B***		**17CUD82W***		**17CUD82N***	
⅛	⅛	⅓	½	1	—	0.25–1	A	30	**17DUA82B***		**17DUA82W***		**17DUA82N***	
½	¾	1½	2	1	—	0.75–3.4	A	30	**17DUB82B***		**17DUB82W***		**17DUB82N***	
2	2	5	5	1	—	3–12	A1	30	**17DUC82B***		**17DUC82W***		**17DUC82N***	
3	3	10	10	1	—	5.5–22	A1	30	**17DUD82B***		**17DUD82W***		**17DUD82N***	
7½	7½	—	—	1	—	10–40	A1	60	**17DUE82B***		**17DUE82W***		**17DUE82N***	
10	10	15	15	—	1¾	10–40	A1	60	**17EUE82B***		**17EUE82W***		**17EUE82N***	
10	15	25	25	2	—	13–52	B	60	**17FUF82B***		**17FUF82W***		**17FUF82N***	
15	20	30	30	—	2½	25–100	B	100③	**17GUG82B***		**17GUG82W***		**17GUG82N***	
20④	25⑤	50	50	3	—	25–100	B	100	**17HUG82B***		**17HUG82W***		**17HUG82N***	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters.

② For conduit hubs and conversion instructions, see page 17-99.

③ For 60A disconnect, order fusible cat. no. page 17-22.

④ For 25 HP and 200A disconnect, order fusible cat. no. page 17-22.

⑤ For 30HP and 200A disconnect, order fusible cat. no. page 17-22.

⑥ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

Non-Fusible with Ambient Compensated Bimetal Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Heater elements see page 17-163. (3 required)
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3-Phase, 3-Pole

Max Hp								Enclosure							
								NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)⑤		**NEMA 4X Fiberglass** Watertight, Dust-tight Corrosion Resistant		**NEMA 12, NEMA 3/3R,**② **NEMA 4 Painted** Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
3	3	5	5	18	0	—	30	**17CP92B*81**		**17CP92W*81**		**17CP92F*81**		**17CP92N*81**	
7½③	7½③	10	10	27	1	—	30	**17DP92B*81**		**17DP92W*81**		**17DP92F*81**		**17DP92N*81**	
10	10	15	15	40	—	1¾	60	**17EP92B*81**		**17EP92W*81**		**17EP92F*81**		**17EP92N*81**	
10	15	25	25	45	2	—	60	**17FP92B*81**		**17FP92W*81**		**17FP92F*81**		**17FP92N*81**	
15	20	30	30	60	—	2½	100	**17GP92B*81**		**17GP92W*81**		**17GP92F*81**		**17GP92N*81**	
25④	30④	50	50	90	3	—	100	**17HP92B*81**		**17HP92W*81**		**17HP92F*81**		**17HP92N*81**	
30	40	75	75	115	—	3½	200	**17IP92B*81**		**17IP92W*81**		**17IP92F*81**		**17IP92N*81**	
40	50	100	100	135	4	—	200	**17JP92B*81**		**17JP92W*81**		**17JP92F*81**		**17JP92N*81**	

Extra Wide Enclosure, 3-Phase, 3-Pole

Max Hp								Enclosure					
								NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)⑤		**NEMA 12, NEMA 3/3R,**② **NEMA 4 Painted** Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
3	3	5	5	18	0	—	30	**17CP82B*81**		**17CP82W*81**		**17CP82N*81**	
7½③	7½③	10	10	27	1	—	30	**17DP82B*81**		**17DP82W*81**		**17DP82N*81**	
10	10	15	15	40	—	1¾	60	**17EP82B*81**		**17EP82W*81**		**17EP82N*81**	
10	15	25	25	45	2	—	60	**17FP82B*81**		**17FP82W*81**		**17FP82N*81**	
15	20	30	30	60	—	2½	100	**17GP82B*81**		**17GP82W*81**		**17GP82N*81**	
25④	30④	50	50	90	3	—	100	**17HP82B*81**		**17HP82W*81**		**17HP82N*81**	

Standard Width Enclosure, Single Phase, (Catalog Numbers are three phase, wire for single phase in the field)

Max Hp						Enclosure							
						NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)⑤		**NEMA 4X Fiberglass** Watertight, Dust-tight Corrosion Resistant		**NEMA 12, NEMA 3/3R,**② **NEMA 4 Painted** Industrial Use Weatherproof Watertight, Dust-tight	
115 Volts	208/230 Volts	Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
1	2	18	0	—	30	**17CP92B*81**		**17CP92W*81**		**17CP92F*81**		**17CP92N*81**	
2	3	27	1	—	30	**17DP92B*81**		**17DP92W*81**		**17DP92F*81**		**17DP92N*81**	
3	5	35	1P	—	60	**17EP92B*81**		**17EP92W*81**		**17EP92F*81**		**17EP92N*81**	
3	7½	45	2	—	60	**17FP92B*81**		**17FP92W*81**		**17FP92F*81**		**17FP92N*81**	
5	10	60	—	2½	100	**17GP92B*81**		**17GP92W*81**		**17GP92F*81**		**17GP92N*81**	

Note: Hp's shown above are based on the overload amp range for the FLA's (per the National Electric Code) of typical industrial motors. All starter sizes carry one maximum Hp rating.

① Dual voltage coils not available in modified starters.
② For conduit hubs and conversion instructions, see page 17-99.
③ For 60A disc, order fusible cat. no. page 17-23.
④ For 200A disc, order fusible cat. no. page 17-23.
⑤ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

Fusible with Solid State Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3-Phase, 3-Pole⑤

Max Hp						Overload				Enclosure							
										NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)⑧		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 12, NEMA 3/3R②, NEMA 4 Painted (thru size 4) Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Amp Range	Frame Size	Disc. Amp Range	Fuse Clip Amp/Volts	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
⅛	⅛	—	—	0	—	0.25–1	A	30	30A/250V	**17CUA92B*10**		**17CUA92W*10**		**17CUA92F*10**		**17CUA92N*10**	
—	—	⅓	½	0	—	0.25–1	A	30	30A/600V	**17CUA92B*11**		**17CUA92W*11**		**17CUA92F*11**		**17CUA92N*11**	
½	¾	—	—	0	—	0.75–3.4	A	30	30A/250V	**17CUB92B*10**		**17CUB92W*10**		**17CUB92F*10**		**17CUB92N*10**	
—	—	1½	2	0	—	0.75–3.4	A	30	30A/600V	**17CUB92B*11**		**17CUB92W*11**		**17CUB92F*11**		**17CUB92N*11**	
2	2	—	—	0	—	3–12	A1	30	30A/250V	**17CUC92B*10**		**17CUC92W*10**		**17CUC92F*10**		**17CUC92N*10**	
—	—	5	5	0	—	3–12	A1	30	30A/600V	**17CUC92B*11**		**17CUC92W*11**		**17CUC92F*11**		**17CUC92N*11**	
3	3	—	—	0	—	5.5–22	A1	30	30A/250V	**17CUD92B*10**		**17CUD92W*10**		**17CUD92F*10**		**17CUD92N*10**	
—	—	10	10	0	—	5.5–22	A1	30	30A/600V	**17CUD92B*11**		**17CUD92W*11**		**17CUD92F*11**		**17CUD92N*11**	
⅛	⅛	—	—	1	—	0.25–1	A	30	30A/250V	**17DUA92B*10**		**17DUA92W*10**		**17DUA92F*10**		**17DUA92N*10**	
—	—	⅓	½	1	—	0.25–1	A	30	30A/600V	**17DUA92B*11**		**17DUA92W*11**		**17DUA92F*11**		**17DUA92N*11**	
½	¾	—	—	1	—	0.75–3.4	A	30	30A/250V	**17DUB92B*10**		**17DUB92W*10**		**17DUB92F*10**		**17DUB92N*10**	
—	—	1½	2	1	—	0.75–3.4	A	30	30A/600V	**17DUB92B*11**		**17DUB92W*11**		**17DUB92F*11**		**17DUB92N*11**	
2	2	—	—	1	—	3–12	A1	30	30A/250V	**17DUC92B*10**		**17DUC92W*10**		**17DUC92F*10**		**17DUC92N*10**	
—	—	5	5	1	—	3–12	A1	30	30A/600V	**17DUC92B*11**		**17DUC92W*11**		**17DUC92F*11**		**17DUC92N*11**	
3	3	—	—	1	—	5.5–22	A1	30	30A/250V	**17DUD92B*10**		**17DUD92W*10**		**17DUD92F*10**		**17DUD92N*10**	
—	—	10	10	1	—	5.5–22	A1	30	30A/600V	**17DUD92B*11**		**17DUD92W*11**		**17DUD92F*11**		**17DUD92N*11**	
5	5	—	—	1	—	10–40	A1	30	30A/250V	**17DUE92B*10**		**17DUE92W*10**		**17DUE92F*10**		**17DUE92N*10**	
7½	7½	—	—	1	—	10–40	A1	60	60A/250V	**17DUE92B*12**		**17DUE92W*12**		**17DUE92F*12**		**17DUE92N*12**	
—	—	15	15	—	1¾	10–40	A1	60	60A/600V	**17EUE92B*13**		**17EUE92W*13**		**17EUE92F*13**		**17EUE92N*13**	
10	10	—	—	—	1¾	10–40	A1	60	60A/250V	**17EUE92B*12**		**17EUE92W*12**		**17EUE92F*12**		**17EUE92N*12**	
10	15	—	—	2	—	13–52	B	60	60A/250V	**17FUF92B*12**		**17FUF92W*12**		**17FUF92F*12**		**17FUF92N*12**	
—	—	25	25	2	—	13–52	B	60	60A/600V	**17FUF92B*13**		**17FUF92W*13**		**17FUF92F*13**		**17FUF92N*13**	
—	—	—	30	—	2½	25–100	B	60	60A/600V	**17GUG92B*13**		**17GUG92W*13**		**17GUG92F*13**		**17GUG92N*13**	
—	—	30	—	—	2½	25–100	B	100	100A/600V	**17GUG92B*15**		**17GUG92W*15**		**17GUG92F*15**		**17GUG92N*15**	
15	20	—	—	—	2½	25–100	B	100	100A/250V	**17GUG92B*14**		**17GUG92W*14**		**17GUG92F*14**		**17GUG92N*14**	
20	25	—	—	3	—	25–100	B	100	100A/250V	**17HUG92B*14**		**17HUG92W*14**		**17HUG92F*14**		**17HUG92N*14**	
—	—	50	50	3	—	25–100	B	100	100A/600V	**17HUG92B*15**		**17HUG92W*15**		**17HUG92F*15**		**17HUG92N*15**	
25	30	—	—	3	—	25–100	B	200	200A/250V	**17HUG92B*16**		**17HUG92W*16**		**17HUG92F*16**		**17HUG92N*16**	
30	40	—	—	—	3½	50–200	B	200	200A/250V	**17IUH92B*16**		**17IUH92W*16**		**17IUH92F*16**		**17IUH92N*16**	
—	—	75	75	—	3½	50–200	B	200	200A/600V	**17IUH92B*17**		**17IUH92W*17**		**17IUH92F*17**		**17IUH92N*17**	
40	50	—	—	4	—	50–200	B	200	200A/250V	**17JUH92B*16**		**17JUH92W*16**		**17JUH92F*16**		**17JUH92N*16**	
—	—	100	100	4	—	50–200	B	200	200A/600V	**17JUH92B*17**		**17JUH92W*17**		**17JUH92F*17**		**17JUH92N*17**	
75	100	—	—	5	—	55–250	—	400	400A/250V	**17LPU92B*18**		**17LPU92E*18④**		—	—	**17LPU92N*18**	
—	100	—	—	5	—	55–250	—	600	600A/250V③	**17LPU92B*20**		**17LPU92E*20④**		—	—	**17LPU92N*20**	
—	—	—	125	5	—	55–250	—	400	200A/600V	**17LPU92B*17**		**17LPU92E*17④**		—	—	**17LPU92N*17**	
—	—	200	200	5	—	55–250	—	400	400A/600V	**17LPU92B*19**		**17LPU92E*19④**		—	—	**17LPU92N*19**	
—	—	200	—	5	—	55–250	—	600	600A/600V③	**17LPU92B*21**		**17LPU92E*21④**		—	—	**17LPU92N*21**	
150	200	—	—	6	—	160–630	—	600	600A/250V	**17MPX92B*20**		**17MPX92E*20④**		—	—	**17MPX92N*20**	
—	—	400	400	6	—	160–630	—	600	600A/600V	**17MPX92B*21**		**17MPX92E*21④**		—	—	**17MPX92N*21**	
—	—	400	400	6	—	160–630	—	800	800A/600V	**17MPX92B*23**		**17MPX92E*23④**		—	—	**17MPX92N*23**	
—	—	600	600	7⑥	—	400–1220	A1+CT	1200	1200A/600V	**17NUN92B*24**		—	—	—	—	**17NUN92N*24**	
—	—	900	900	8⑦	—	400–1220	A1+CT	1600	1600A/600V	**17PUN92B*25**		—	—	—	—	**17PUN92N*25**	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters or in starter sizes 5–8.

② For conduit hubs and conversion instructions, see page 17-99.

③ Use Class J fuses only.

④ Enclosure is NEMA Type 4 (painted steel).

⑤ Single phase wiring page 17-144.

⑥ F coil 100-250V AC 50/60Hz, or DC, H coil 150-500V AC 50/60Hz, or DC

⑦ Only available F coil 100-250V AC 50/60Hz, or DC

⑧ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

Fusible with Solid State Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Extra Wide Enclosure, 3-Phase, 3-Pole

Max Hp						Overload				Enclosure					
										NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight, 304 Stainless Steel 316 Stainless Steel (Optional)③		NEMA 12, NEMA 3/3R②, NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Amp Range	Frame Size	Disc. Amp Range	Fuse Clip Amp/Volts	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
⅛	⅛	__	__	0	__	0.25–1	A	30	30A/250V	**17CUA82B*10**		**17CUA82W*10**		**17CUA82N*10**	
__	__	⅓	½	0	__	0.25–1	A	30	30A/600V	**17CUA82B*11**		**17CUA82W*11**		**17CUA82N*11**	
½	¾	__	__	0	__	0.75–3.4	A	30	30A/250V	**17CUB82B*10**		**17CUB82W*10**		**17CUB82N*10**	
__	__	1½	2	0	__	0.75–3.4	A	30	30A/600V	**17CUB82B*11**		**17CUB82W*11**		**17CUB82N*11**	
2	2	__	__	0	__	3–12	A1	30	30A/250V	**17CUC82B*10**		**17CUC82W*10**		**17CUC82N*10**	
__	__	5	5	0	__	3–12	A1	30	30A/600V	**17CUC82B*11**		**17CUC82W*11**		**17CUC82N*11**	
3	3	__	__	0	__	5.5–22	A1	30	30A/250V	**17CUD82B*10**		**17CUD82W*10**		**17CUD82N*10**	
__	__	10	10	0	__	5.5–22	A1	30	30A/600V	**17CUD82B*11**		**17CUD82W*11**		**17CUD82N*11**	
⅛	⅛	__	__	1	__	0.25–1	A	30	30A/250V	**17DUA82B*10**		**17DUA82W*10**		**17DUA82N*10**	
__	__	⅓	½	1	__	0.25–1	A	30	30A/600V	**17DUA82B*11**		**17DUA82W*11**		**17DUA82N*11**	
½	¾	__	__	1	__	0.75–3.4	A	30	30A/250V	**17DUB82B*10**		**17DUB82W*10**		**17DUB82N*10**	
__	__	1½	2	1	__	0.75–3.4	A	30	30A/600V	**17DUB82B*11**		**17DUB82W*11**		**17DUB82N*11**	
2	2	__	__	1	__	3–12	A1	30	30A/250V	**17DUC82B*10**		**17DUC82W*10**		**17DUC82N*10**	
__	__	5	5	1	__	3–12	A1	30	30A/600V	**17DUC82B*11**		**17DUC82W*11**		**17DUC82N*11**	
3	3	__	__	1	__	5.5–22	A1	30	30A/250V	**17DUD82B*10**		**17DUD82W*10**		**17DUD82N*10**	
__	__	10	10	1	__	5.5–22	A1	30	30A/600V	**17DUD82B*11**		**17DUD82W*11**		**17DUD82N*11**	
5	5	__	__	1	__	10–40	A1	30	30A/250V	**17DUE82B*10**		**17DUE82W*10**		**17DUE82N*10**	
7½	7½	__	__	1	__	10–40	A1	60	60A/250V	**17DUE82B*12**		**17DUE82W*12**		**17DUE82N*12**	
__	__	15	15	__	1¾	10–40	A1	60	60A/600V	**17EUE82B*13**		**17EUE82W*13**		**17EUE82N*13**	
10	10	__	__	__	1¾	10–40	A1	60	60A/250V	**17EUE82B*12**		**17EUE82W*12**		**17EUE82N*12**	
10	15	__	__	2	__	13–52	B	60	60A/250V	**17FUF82B*12**		**17FUF82W*12**		**17FUF82N*12**	
__	__	25	25	2	__	13–52	B	60	60A/600V	**17FUF82B*13**		**17FUF82W*13**		**17FUF82N*13**	
__	__	__	30	__	2½	25–100	B	60	60A/600V	**17GUG82B*13**		**17GUG82W*13**		**17GUG82N*13**	
__	__	30	__	__	2½	25–100	B	100	100A/600V	**17GUG82B*15**		**17GUG82W*15**		**17GUG82N*15**	
15	20	__	__	__	2½	25–100	B	100	100A/250V	**17GUG82B*14**		**17GUG82W*14**		**17GUG82N*14**	
20	25	__	__	3	__	25–100	B	100	100A/250V	**17HUG82B*14**		**17HUG82W*14**		**17HUG82N*14**	
__	__	50	50	3	__	25–100	B	100	100A/600V	**17HUG82B*15**		**17HUG82W*15**		**17HUG82N*15**	
25	30	__	__	3	__	25–100	B	200	200A/250V	**17HUG82B*16**		**17HUG82W*16**		**17HUG82N*16**	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters.

② For conduit hubs and conversion instructions, see page 17-99.

③ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

Fusible with Ambient Compensated Bimetal Overload, Class 17

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Heater elements see page 17-163. (3 required)
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3-Phase, 3-Pole③

Max Hp									Enclosure							
									NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)④		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 12, NEMA 3/3R,② NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Fuse Clip Size Amps/Volts	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
3	3	—	—	18	0	—	30	30A/250V	**17CP92B*1081**		**17CP92W*1081**		**17CP92F*1081**		**17CP92N*1081**	
—	—	5	5	18	0	—	30	30A/600V	**17CP92B*1181**		**17CP92W*1181**		**17CP92F*1181**		**17CP92N*1181**	
5	5	—	—	27	1	—	30	30A/250V	**17DP92B*1081**		**17DP92W*1081**		**17DP92F*1081**		**17DP92N*1081**	
—	—	10	10	27	1	—	30	30A/600V	**17DP92B*1181**		**17DP92W*1181**		**17DP92F*1181**		**17DP92N*1181**	
7½	7½	—	—	27	1	—	60	60A/250V	**17DP92B*1281**		**17DP92W*1281**		**17DP92F*1281**		**17DP92N*1281**	
10	10	—	—	40	—	1¾	60	60A/250V	**17EP92B*1281**		**17EP92W*1281**		**17EP92F*1281**		**17EP92N*1281**	
—	—	15	15	40	—	1¾	60	60A/600V	**17EP92B*1381**		**17EP92W*1381**		**17EP92F*1381**		**17EP92N*1381**	
10	15	—	—	45	2	—	60	60A/250V	**17FP92B*1281**		**17FP92W*1281**		**17FP92F*1281**		**17FP92N*1281**	
—	—	25	25	45	2	—	60	60A/600V	**17FP92B*1381**		**17FP92W*1381**		**17FP92F*1381**		**17FP92N*1381**	
—	—	—	30	60	—	2½	60	60A/600V	**17GP92B*1381**		**17GP92W*1381**		**17GP92F*1381**		**17GP92N*1381**	
—	—	30	—	60	—	2½	100	100A/600V	**17GP92B*1581**		**17GP92W*1581**		**17GP92F*1581**		**17GP92N*1581**	
15	20	—	—	60	—	2½	100	100A/250V	**17GP92B*1481**		**17GP92W*1481**		**17GP92F*1481**		**17GP92N*1481**	
20	25	—	—	90	3	—	100	100A/250V	**17HP92B*1481**		**17HP92W*1481**		**17HP92F*1481**		**17HP92N*1481**	
—	—	50	50	90	3	—	100	100A/600V	**17HP92B*1581**		**17HP92W*1581**		**17HP92F*1581**		**17HP92N*1581**	
25	30	—	—	90	3	—	200	200A/250V	**17HP92B*1681**		**17HP92W*1681**		**17HP92F*1681**		**17HP92N*1681**	
30	40	—	—	115	—	3½	200	200A/250V	**17IP92B*1681**		**17IP92W*1681**		**17IP92F*1681**		**17IP92N*1681**	
—	—	75	75	115	—	3½	200	200A/600V	**17IP92B*1781**		**17IP92W*1781**		**17IP92F*1781**		**17IP92N*1781**	
40	50	—	—	135	4	—	200	200A/250V	**17JP92B*1681**		**17JP92W*1681**		**17JP92F*1681**		**17JP92N*1681**	
—	—	100	100	135	4	—	200	200A/600V	**17JP92B*1781**		**17JP92W*1781**		**17JP92F*1781**		**17JP92N*1781**	

Extra Wide Enclosure, 3-Phase, 3-Pole

Max Hp									Enclosure					
									NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight Industrial Use Weatherproof 304 Stainless Steel 316 Stainless Steel (optional)④		NEMA 12, NEMA 3/3R,② NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Contactor Amp Rating	NEMA Size	Half Size	Disc Amp Rating	Fuse Clip Size Amps/Volts	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
3	3	—	—	18	0	—	30	30A/250V	**17CP82B*1081**		**17CP82W*1081**		**17CP82N*1081**	**1405.00**
—	—	5	5	18	0	—	30	30A/600V	**17CP82B*1181**		**17CP82W*1181**		**17CP82N*1181**	**1423.00**
5	5	—	—	27	1	—	30	30A/250V	**17DP82B*1081**		**17DP82W*1081**		**17DP82N*1081**	**1447.00**
—	—	10	10	27	1	—	30	30A/600V	**17DP82B*1181**		**17DP82W*1181**		**17DP82N*1181**	**1465.00**
7½	7½	—	—	27	1	—	60	60A/250V	**17DP82B*1281**		**17DP82W*1281**		**17DP82N*1281**	**1465.00**
10	10	—	—	40	—	1¾	60	60A/250V	**17EP82B*1281**		**17EP82W*1281**		**17EP82N*1281**	**1595.00**
—	—	15	15	40	—	1¾	60	60A/600V	**17EP82B*1381**		**17EP82W*1381**		**17EP82N*1381**	**1612.00**
10	15	—	—	45	2	—	60	60A/250V	**17FP82B*1281**		**17FP82W*1281**		**17FP82N*1281**	**2034.00**
—	—	25	25	45	2	—	60	60A/600V	**17FP82B*1381**		**17FP82W*1381**		**17FP82N*1381**	**2051.00**
—	—	—	30	60	—	2½	60	60A/600V	**17GP82B*1381**		**17GP82W*1381**		**17GP82N*1381**	**2998.00**
—	—	30	—	60	—	2½	100	100A/600V	**17GP82B*1581**		**17GP82W*1581**		**17GP82N*1581**	**3075.00**
15	20	—	—	60	—	2½	100	100A/250V	**17GP82B*1481**		**17GP82W*1481**		**17GP82N*1481**	**3075.00**
20	25	—	—	90	3	—	100	100A/250V	**17HP82B*1481**		**17HP82W*1481**		**17HP82N*1481**	**3471.00**
—	—	50	50	90	3	—	100	100A/600V	**17HP82B*1581**		**17HP82W*1581**		**17HP82N*1581**	**3471.00**
25	30	—	—	90	3	—	200	200A/250V	**17HP82B*1681**		**17HP82W*1681**		**17HP82N*1681**	**3987.00**

Note: Hp's shown above are based on the overload amp range for the FLA's (per the National Electric Code) of typical industrial motors. All starter sizes carry one maximum Hp rating.

① Dual voltage coils not available in modified starters.
② For conduit hubs and conversion instructions, see page 17-99.
③ Single phase wiring page 17-144.
④ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

MCP Type with Solid State Overload, Class 18

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3-Phase, 3-Pole

Max Hp							Overload		Enclosure									
									NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)⑥		**NEMA 4X Fiberglass** Watertight, Dust-tight Corrosion Resistant		**NEMA 7 & 9 NEMA 3 & 4** Div. 1 and Div. 2 Class I Groups C & D Class II Groups E, F & G Class III Bolted Enclosures Indoor/Outdoor Use		**NEMA 12, NEMA 3/3R**②**, NEMA 4 Painted (thru size 4)** Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	NEMA Size	Half Size	Motor Circuit Interruter ETI Amps	Amp Range	Frame Size	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
½	½	1	1	0	—	3	0.75–3.4	A	**18CUB92B***		**18CUB92W***		**18CUB92F***		**18CUB92H***		**18CUB92N***	
2	2	5	5	0	—	10	3–12	A1	**18CUC92B***		**18CUC92W***		**18CUC92F***		**18CUC92H***		**18CUC92N***	
3	3	—	—	0	—	25	5.5–22	A1	**18CUD92B***		**18CUD92W***		**18CUD92F***		**18CUD92H***		**18CUD92N***	
½	½	1	1	1	—	3	0.75–3.4	A	**18DUB92B***		**18DUB92W***		**18DUB92F***		**18DUB92H***		**18DUB92N***	
2	2	5	5	1	—	10	3–12	A1	**18DUC92B***		**18DUC92W***		**18DUC92F***		**18DUC92H***		**18DUC92N***	
3	3	7 ½	10	1	—	25	5.5–22	A1	**18DUD92B***		**18DUD92W***		**18DUD92F***		**18DUD92H***		**18DUD92N***	
7 ½	7 ½	10	—	1	—	30	10–40	A1	**18DUE92B***		**18DUE92W***		**18DUE92F***		**18DUE92H***		**18DUE92N***	
—	—	15	15	—	1¾	40	10–40	A1	**18EUE92B***		**18EUE92W***		**18EUE92F***		**18EUE92H***		**18EUE92N***	
10	15	25	25	2	—	50	13–52	B	**18FUF92B***		**18FUF92W***		**18FUF92F***		**18FUF92H***		**18FUF92N***	
15	20	30	30	—	2 ½	100	25–100	B	**18GUG92B***		**18GUG92W***		**18GUG92F***		**18GUG92H***		**18GUG92N***	
25	30	50	50	3	—	125	25–100	B	**18HUG92B***		**18HUG92W***		**18HUG92F***		**18HUG92H***		**18HUG92N***	
30	40	75	75	—	3 ½	125	50–200	B	**18IUH92B***		**18IUH92W***		**18IUH92F***		**18IUH92H***		**18IUH92N***	
40	50	100	100	4	—	150	50–200	B	**18JUH92B***		**18JUH92W***		**18JUH92F***		**18JUH92H***		**18JUH92N***	
50	75	150	200	5	—	250	55–250	—	**18LPT92B***		**18LPT92E***③		—	—	**18LPT92H***		**18LPT92N***	
75	100	200	—	5	—	400	55–250	—	**18LPU92B***		**18LPU92E***③		—	—	—	—	**18LPU92N***	
100	125	250	300	6	—	400	160–630	—	**18MPW92B***		**18MPW92E***③		—	—	—	—	**18MPW92N***	
150	200	400	400	6	—	600	160–630	—	**18MPX92B***		**18MPX92E***③		—	—	—	—	**18MPX92N***	
—	250	500	500	7④	—	800	400–1220	A1+CT	**18NUV92B***		—	—	—	—	—	—	**18NUV92N***	
—	300	600	600	7④	—	1000	400–1220	A1+CT	**18NUY92B***		—	—	—	—	—	—	**18NUY92N***	
—	400	800	800	8⑤	—	1200	400–1220	A1+CT	**18PUW92B***		—	—	—	—	—	—	**18PUW92N***	
—	450	900	900	8⑤	—	1600	400–1220	A1+CT	**18PUZ92B***		—	—	—	—	—	—	**18PUZ92N***	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters or in starter sizes 5–8.

② For conduit hubs and conversion instructions, see page 17-99.

③ Enclosure is NEMA Type 4 (painted steel).

④ F coil 100-250V AC 50/60Hz, or DC, H coil 150-500V AC 50/60Hz, or DC

⑤ Only available F coil 100-250V AC 50/60Hz, or DC

⑥ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

MCP Type with Solid State Overload, Class 18

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Extra Wide Enclosure, 3-Phase, 3-Pole

Max Hp							Overload		Enclosure					
									NEMA 1 General Purpose		**NEMA 4/4X Stainless**② Watertight, Dust-tight, Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (Optional)③		**NEMA 12, NEMA 3/3R**②**, NEMA 4 Painted** Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	**230 Volts**	**460 Volts**	**575 Volts**	**NEMA Size**	**Half Size**	**Motor Circuit Interruter ETI Amps**	**Amp Range**	**Frame Size**	**Catalog Number**	**List Price $**	**Catalog Number**	**List Price $**	**Catalog Number**	**List Price $**
½	½	1	1	0	—	3	0.75–3.4	A	**18CUB82B***		**18CUB82W***		**18CUB82N***	
2	2	5	5	0	—	10	3–12	A1	**18CUC82B***		**18CUC82W***		**18CUC82N***	
3	3	—	—	0	—	25	5.5–22	A1	**18CUD82B***		**18CUD82W***		**18CUD82N***	
½	½	1	1	1	—	3	0.75–3.4	A	**18DUB82B***		**18DUB82W***		**18DUB82N***	
2	2	5	5	1	—	10	3–12	A1	**18DUC82B***		**18DUC82W***		**18DUC82N***	
3	3	7½	10	1	—	25	5.5–22	A1	**18DUD82B***		**18DUD82W***		**18DUD82N***	
7½	7½	10	—	1	—	30	10–40	A1	**18DUE82B***		**18DUE82W***		**18DUE82N***	
—	—	15	15	—	1¼	40	10–40	A1	**18EUE82B***		**18EUE82W***		**18EUE82N***	
10	15	25	25	2	—	50	13–52	B	**18FUF82B***		**18FUF82W***		**18FUF82N***	
15	20	30	30	—	2½	100	25–100	B	**18GUG82B***		**18GUG82W***		**18GUG82N***	
25	30	50	50	3	—	125	25–100	B	**18HUG82B***		**18HUG82W***		**18HUG82N***	

Note: All starter sizes carry one maximum Hp rating (per the National Electric Code).

① Dual voltage coils not available in modified starters.

② For conduit hubs and conversion instructions, see page 17-99.

③ For 316 Stainless Steel option see page 17-111.

Combination Heavy Duty Starters

MCP Type with Ambient Compensated Bimetal Overload, Class 18

Selection

Ordering Information

- Replace the (*) with a letter from the coil table. Dual voltage coils are wired on high voltage unless specified on order.
- Heater elements see page 17-163. (3 required)
- Field Modification Kits see page 17-93.
- Factory Modifications see page 17-108.
- Dimensions see page 17-131.
- Wiring Diagrams see page 17-145.
- Replacement Parts see page 17-170.

Coil Table

60Hz Voltage	Letter
24 Separate Control	J
120 Separate Control	F
110–120/220–240①	A
200–208	D
220–240	G
277	L
220–240/440–480①	C
440–480	H
575–600	E

For other voltages and frequencies, see Factory Modifications page 17-108.

Standard Width Enclosure, 3-Phase, 3-Pole

Max Hp								Enclosure									
								NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)③		NEMA 4X Fiberglass Watertight, Dust-tight Corrosion Resistant		NEMA 7 & 9 NEMA 3 & 4 Div 1 and Div 2 Class I Groups C & D Class II Groups E, F & G Class III Bolted Enclosures Indoor/Outdoor Use		NEMA 12,NEMA 3/3R,② NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Cont-actor Amp Rating	NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
½	½	1	1	18	0	—	3	18CP92BA*81		18CP92WA*81		18CP92FA*81		18CP92HA*81		18CP92NA*81	
1	1	3	3	18	0	—	10	18CP92BB*81		18CP92WB*81		18CP92FB*81		18CP92HB*81		18CP92NB*81	
3	3	5	5	18	0	—	25	18CP92BC*81		18CP92WC*81		18CP92FC*81		18CP92HC*81		18CP92NC*81	
½	½	1	1	27	1	—	3	18DP92BA*81		18DP92WA*81		18DP92FA*81		18DP92HA*81		18DP92NA*81	
1	1	3	3	27	1	—	10	18DP92BB*81		18DP92WB*81		18DP92FB*81		18DP92HB*81		18DP92NB*81	
3	3	7½	7½	27	1	—	25	18DP92BD*81		18DP92WD*81		18DP92FD*81		18DP92HD*81		18DP92ND*81	
7½	7½	10	10	27	1	—	30	18DP92BE*81		18DP92WE*81		18DP92FE*81		18DP92HE*81		18DP92NE*81	
—	—	15	15	40	—	1¾	40	18EP92BF*81		18EP92WF*81		18EP92FF*81		18EP92HF*81		18EP92NF*81	
10	10	—	—	40	—	1¾	50	18EP92BG*81		18EP92WG*81		18EP92FG*81		18EP92HG*81		18EP92NG*81	
—	—	20	20	45	2	—	40	18FP92BH*81		18FP92WH*81		18FP92FH*81		18FP92HH*81		18FP92NH*81	
10	15	25	25	45	2	—	50	18FP92BJ*81		18FP92WJ*81		18FP92FJ*81		18FP92HJ*81		18FP92NJ*81	
10	15	30	30	60	—	2½	50	18GP92BK*81		18GP92WK*81		18GP92FK*81		18GP92HK*81		18GP92NK*81	
15	20	—	—	60	—	2½	100	18GP92BL*81		18GP92WL*81		18GP92FL*81		18GP92HL*81		18GP92NL*81	
—	—	30	30	90	3	—	50	18HP92BM*81		18HP92WM*81		18HP92FM*81		18HP92HM*81		18HP92NM*81	
25	30	50	50	90	3	—	125	18HP92BN*81		18HP92WN*81		18HP92FN*81		18HP92HN*81		18HP92NN*81	
30	40	75	75	115	—	3½	125	18IP92BP*81		18IP92WP*81		18IP92FP*81		18IP92HP*81		18IP92NP*81	
40	50	100	100	135	4	—	150	18JP92BR*81		18JP92WR*81		18JP92FR*81		18JP92HR*81		18JP92NR*81	

Extra Wide Enclosure, 3-Phase, 3-Pole

Max Hp								Enclosure					
								NEMA 1 General Purpose		NEMA 4/4X Stainless② Watertight, Dust-tight Corrosion Resistant 304 Stainless Steel 316 Stainless Steel (optional)③		NEMA 12, NEMA 3/3R,② NEMA 4 Painted Industrial Use Weatherproof Watertight, Dust-tight	
200 Volts	230 Volts	460 Volts	575 Volts	Contactor Amp Rating	NEMA Size	Half Size	Motor Circuit Interrupter ETI Amps	Catalog Number	List Price $	Catalog Number	List Price $	Catalog Number	List Price $
½	½	1	1	18	0	—	3	18CP82BA*81		18CP82WA*81		18CP82NA*81	
1	1	3	3	18	0	—	10	18CP82BB*81		18CP82WB*81		18CP82NB*81	
3	3	5	5	18	0	—	25	18CP82BC*81		18CP82WC*81		18CP82NC*81	
½	½	1	1	27	1	—	3	18DP82BA*81		18DP82WA*81		18DP82NA*81	
1	1	3	3	27	1	—	10	18DP82BB*81		18DP82WB*81		18DP82NB*81	
3	3	7½	7½	27	1	—	25	18DP82BD*81		18DP82WD*81		18DP82ND*81	
7½	7½	10	10	27	1	—	30	18DP82BE*81		18DP82WE*81		18DP82NE*81	
—	—	15	15	40	—	1¾	40	18EP82BF*81		18EP82WF*81		18EP82NF*81	
10	10	—	—	40	—	1¾	50	18EP82BG*81		18EP82WG*81		18EP82NG*81	
—	—	20	20	45	2	—	40	18FP82BH*81		18FP82WH*81		18FP82NH*81	
10	15	25	25	45	2	—	50	18FP82BJ*81		18FP82WJ*81		18FP82NJ*81	
10	15	30	30	60	—	2½	50	18GP82BK*81		18GP82WK*81		18GP82NK*81	
15	20	—	—	60	—	2½	100	18GP82BL*81		18GP82WL*81		18GP82NL*81	
—	—	30	30	90	3	—	50	18HP82BM*81		18HP82WM*81		18HP82NM*81	
25	30	50	50	90	3	—	125	18HP82BN*81		18HP82WN*81		18HP82NN*81	

Note: Hp's shown above are based on the overload amp range for the FLA's (per the National Electric Code) of typical industrial motors. All starter sizes carry one maximum Hp rating.

① Dual voltage coils not available in modified starters.
② For conduit hubs and conversion instructions, see page 17-99.
③ For 316 Stainless Steel option see page 17-111.