

Non-Reversing Starters & Contactors Class 14, 40

Size	NEMA 1 General Purpose (Clamshell) ^{②④}					NEMA 4/4X Stainless ^① Watertight, Dust-tight, Corrosion Resistant ^{③⑥}					NEMA 12/3/3R ^① Industrial Use, Weatherproof ^{③⑤}				
	Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)		
	Model C Enclosure	List Price \$	Model C Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
00-1 1/4	49EC14EB110705R	—	49EC14IB201208R	200	—	49EB14EW130806R	—	49EB22EW131306R	—	—	—	49EB14E0130806R	—	49EB22E0131306R	—
2, 2 1/2	49EC14GB140807R	—	49EC14IB201208R	200	—	49EB14GW160907R	—	49EB22GW161406R	—	—	—	49EB14G0160907R	—	49EB22G0161406R	—
3, 3 1/2	49EC14IB201208R	—	49EC14IB201208R	100	—	49EB14JW261408R	—	49EB14JW261408R	—	—	—	49EB14J0261408R	—	49EB14J0261408R	—
3, 3 1/2	—	—	49EC14JB251409R	250	—	—	—	—	—	—	—	—	—	—	—
4	49EC14JB251409R	—	49EC14JB251409R	300	—	49EB14JW261408R	—	49EB22JW302410R	—	—	—	49EB14J0261408R	—	49EB22J0302410R	—

Reversing Starters & Reversing Contactors Class 22, 43

Size	NEMA 1 General Purpose (Clamshell) ^{②④}					NEMA 4/4X Stainless ^① Watertight, Dust-tight, Corrosion Resistant ^{③⑥}					NEMA 12/3/3R ^① Industrial Use, Weatherproof ^{③⑤}				
	Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)		
	Model C Enclosure	List Price \$	Model C Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
00-1 1/4	49EC14IB201208R	—	49EC14IB201208R	200	—	49EB22EW131306R	—	49EB22EW131306R	—	—	—	49EB22E0131306R	—	49EB22E0131306R	—
2, 2 1/2	49EC14IB201208R	—	49EC14IB201208R	200	—	49EB22GW161406R	—	49EB22GW161406R	—	—	—	49EB22G0161406R	—	49EB22G0161406R	—
3, 3 1/2	49EC14JB251409R	—	49EC14JB251409R	250	—	49EB22JW261808R	—	49EB22JW302410R	—	—	—	49EB22J0261808R	—	49EB22J0302410R	—
4	49EC14JB251409R	—	49EC14JB251409R	300	—	49EB22JW302410R	—	49EB22JW302410R	—	—	—	49EB22J0302410R	—	49EB22J0302410R	—

Two-Speed Two-Winding Starters Class 30

Size	NEMA 1 General Purpose (Clamshell) ^{②④}					NEMA 4/4X Stainless ^① Watertight, Dust-tight, Corrosion Resistant ^{③⑥}					NEMA 12/3/3R ^① Industrial Use, Weatherproof ^{③⑤}				
	Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)		
	Model C Enclosure	List Price \$	Model C Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
0-1 1/4	49EC14IB201208R ^②	—	49EC14JB251409R ^②	200	—	49EB30EW131306R	—	49EB30GW161808R	—	—	—	49EB30E0131306R	—	49EB30G0161808R	—
2, 2 1/2	49EC14IB201208R ^②	—	49EC14JB251409R ^②	200	—	49EB30GW161406R	—	49EB30GW161808R	—	—	—	49EB30G0161406R	—	49EB30G0161808R	—
3, 3 1/2	49EC14JB251409R ^②	—	49EB22JB302410R ^③	300	—	49EB30IW261808R	—	49EB22JW302410R	—	—	—	49EB30I0261808R	—	49EB22J0302410R	—
4	49EC14JB251409R ^②	—	49EB22JB302410R ^③	300	—	49EB22JW302410R	—	49EB22JW302410R	—	—	—	49EB22J0302410R	—	49EB22J0302410R	—

Two-Speed One-Winding Starters Class 30

Size	NEMA 1 General Purpose (Clamshell) ^{②④}					NEMA 4/4X Stainless ^① Watertight, Dust-tight, Corrosion Resistant ^{③⑥}					NEMA 12/3/3R ^① Industrial Use, Weatherproof ^{③⑤}				
	Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)		
	Model C Enclosure	List Price \$	Model C Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$	Model B Enclosure	List Price \$	Model B Enclosure	Max CPT VA	List Price \$
Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number	Catalog Number
0-1 1/4	49EC14IB201208R ^②	—	49EC14JB251409R ^②	200	—	49EB30EW131306R	—	49EB30GW161808R	—	—	—	49EB30E0131306R	—	49EB30G0161808R	—
2, 2 1/2	49EB30GB161808R ^③	—	49EB22JB302410R ^③	300	—	49EB30GW161808R	—	49EB22IW261808R	—	—	—	49EB30G0161808R	—	49EB22I0261808R	—
3, 3 1/2	49EB30IB192208R ^③	—	49EB22JB302410R ^③	300	—	49EB22JW302410R	—	49EB22JW302410R	—	—	—	49EB22J0302410R	—	49EB22J0302410R	—
4	49EB22JB302410R ^③	—	49EB22JB302410R ^③	300	—	49EB22JW302410R	—	49EB22JW302410R	—	—	—	49EB22J0302410R	—	49EB22J0302410R	—

Note: Dimensions...See appropriate Product Class Outline Drawing beginning on page 9/157.

- ① For conduit hubs and conversion instructions, see page 9/110.
- ② Clamshell enclosure suitable for one operating device and two pilot lights. See Field Mods page 9/104.

- ③ Hinged cover enclosures, except for 49EB14E0130806R, are suitable for one or more class 52 operating devices and one or more class 52 pilot lights. See Field Mods page 9/100.

- ④ Install NEMA 1 hole plug cat. no. 3SB1902-0AR (included) when the cover OL reset is not needed.

- ⑤ Install NEMA 12 hole plug cat. no. 52ABH6 (not included) when the cover OL reset is not needed.

- ⑥ Install NEMA 4X stainless steel hole plug cat. no. 52ABHS (not included) when the cover OL reset is not needed.

Heavy Duty Control Lighting Enclosure Tables

Selection

Lighting Contactors Class LC and LE

Contactor	Type 1 ¹⁾			Type 4/4X Stainless Steel ²⁾			Type 3/3R/12 ³⁾		
	Without CPT	With CPT	Max.	Without CPT	With CPT	Max.	Without CPT	With CPT	Max.
	Catalog Number	Catalog Number	CPT VA	Catalog Number	Catalog Number	CPT VA	Catalog Number	Catalog Number	CPT VA
LC 30A 2-12P	49EC14GB140807R	49EC14IB201208R	200	49EB22GW161406R	49EB30GW161808		49EB22G0161406R	49EB30G0B161808	
LE 20, 30A 3-4P	49EC14EB110705R	49EC14IB201208R	200	49EB22GW161406R	49EB22GW161406R		49EB22G0161406R	49EB22G0161406R	
LE 30A 6-9P	49EC14IB201208R	49EC14IB201208R	200	49EB14JW261408R	49EB14JW261408R		49EB14J0261408R	49EB14J0261408R	
LE 30A 12P	49EC14IB201208R	49EC14JB251409R	250	49EB14JW261408R	49EB14JW261408R		49EB14J0261408R	49EB14J0261408R	
LE 60A 3P	49EC14GB140807R	49EC14IB201208R	200	49EB22GW161406R	49EB22GW161406R		49EB22G0161406R	49EB22G0161406R	
LE 60A 6-9P	49EC14IB201208R	49EC14IB201208R	200	49EB14JW261408R	49EB14JW261408R		49EB14J0261408R	49EB14J0261408R	
LE 60A 12P	49EC14IB201208R	49EC14IB201209R	250	49EB14JW261408R	49EB14JW261408R		49EB14J0261408R	49EB14J0261408R	
LE 100A 3P	49EC14IB201208R	49EC14IB201208R	200	49EB14JW261408R	49EB14JW261408R		49EB14J0261408R	49EB14J0261408R	

Lighting & Heating Contactors Class CLM

Size	Pole	NEMA 1 General Purpose (Clamshell) ²⁾⁴⁾					NEMA 4/4X Stainless ¹⁾ Watertight, Corrosion Resistant ³⁾⁴⁾					NEMA 12/3/3R ¹⁾ Industrial Use ³⁾⁵⁾									
		Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)			Without CPT		With CPT (Extra Wide)							
		Model C/B Enclosure		Model C/B Enclosure	Max CPT	List Price \$	Model B Enclosure		List Price \$	Model B Enclosure		Max CPT	List Price \$	Model B Enclosure		List Price \$	Model B Enclosure		Max CPT	List Price \$	
		Catalog Number	List Price \$	Catalog Number	Max CPT	List Price \$	Catalog Number	List Price \$	Catalog Number	Max CPT	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	Max CPT	List Price \$			
20A	2-12	49EC14GB140807R		49EC14IB201208R	200VA		49EB22GW161406R		49EB22GW161406R	—		49EB22G0161406R		49EB22G0161406R	—		49EB22G0161406R		49EB22G0161406R	—	
30A	2-5	49EC14EB110705R		49EC14IB201208R	200VA		49EB22GW161406R		49EB22GW161406R	—		49EB22G0161406R		49EB22G0161406R	—		49EB22G0161406R		49EB22G0161406R	—	
30A	6-12	49EB30GB161808R		49EB30GB161808R	200VA		49EB30GW161808R		49EB30GW161808R	—		49EB30G0161808R		49EB30G0161808R	—		49EB30G0161808R		49EB30G0161808R	—	
60A	2-5	49EC14GB140807R		49EC14IB201208R	200VA		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
60A	6-12	49EB30IB192208R		49EB30IB192208R	250VA		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—
100A	2-5	49EC14IB201208R		49EC14IB201208R	200VA		—	—	—	—	—	—	—	—	—	—	—	—	—	—	—

Note: Dimensions...See appropriate Product Class Outline Drawing on page 9/170.

① For conduit hubs and conversion instructions, see page 9/110.

② Clamshell enclosure suitable for one operating device and two pilot lights. See Field Mods page 9/104.

③ Hinged cover enclosure suitable for one or more class 52 operating devices and one or more class 52 pilot lights. See Field Mods page 9/104.

④ Install NEMA 1 hole plug cat. no. **3SB1902-0AR** (included) when the cover OL reset is not needed.

⑤ Install NEMA 12 hole plug cat. no. **52ABH6** (not included) when the cover OL reset is not needed.

⑥ Install NEMA 4X stainless steel hole plug cat. no. **52ABHS** (not included) when the cover OL reset is not needed.

Features

- Manufactured with a cold forming “TOX” process
- 100kA short circuit rating when protected with class R fuses to 600V or MCP to 480V and when installing listed components from the instruction guide
- Enclosure types available, Nema 1, 12, 3/3R and painted NEMA 4. Nema 12 field convertible to 3/3R/4 with the appropriate conduit hub and drain hole
- Pre-Drilled mounting panels
- Heavy duty quarter turns
- Industrial type disconnect handle

Disconnect Type Enclosure Kit

- Used to assemble both non-fusible and fusible combination starters
- Accommodates Class 14 full voltage non-reversing (FVNR) NEMA starters 00 – 4 including Siemens exclusive half sizes
- Handle mechanism, power wire, mounting panel, reset assembly, and instruction guide included. Hardware for panel mounted devices and disconnect switch are not included

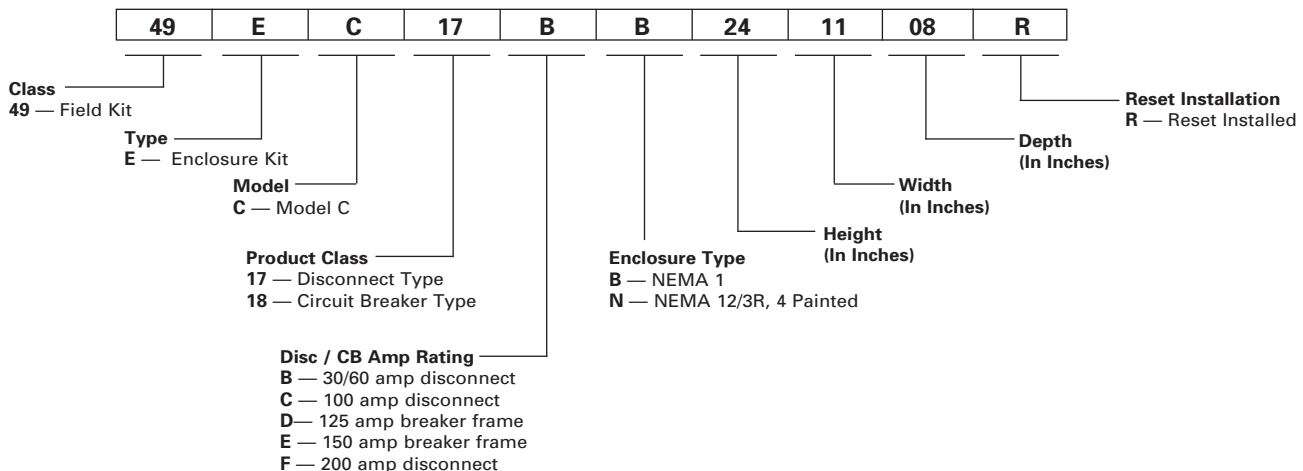
MCP Type Enclosure Kit

- Used to assemble combination starters with circuit breakers
- Accommodates Class 14 full voltage non-reversing (FVRN) NEMA starters 00 – 4 including Siemens exclusive half sizes
- Handle mechanism, power wire, mounting panel, reset assembly and instruction guide included. Circuit breaker not included however, mounting hardware for the circuit breaker is

How to Select the Required Kits to Assemble a Combination Starter

1. From the catalog, select a class 14 open type starter with the required starter size and overload relay type.
2. Based on the starter size, select the enclosure kit from table 1a for fusible or non-fusible combination starters or select from table 1b for combination starters with an MCP.
3. For a non-fusible combination starter, select the disconnect switch kit from table 2a. For a fusible combination starter, select the appropriate disconnect switch, fuse clip kit, and class R rejection kit from table 2b (for H fusing, class R rejection kit not required). For combination starters with MCP, select the appropriate circuit breaker kit from table 3.

Nomenclature for Combination Enclosure Kits



Combination Starter Enclosure Kits

Selection

Table 1a - FVNR Combination Starter Kits for use with Disconnect Devices

Starter Size	Disc. Amp Rating	NEMA 1 General Purpose		NEMA 12, 3/3R, 4 Painted ^① Industrial Use, Weatherproof, Watertight, Dust-tight		NEMA 4/4X Stainless Steel Watertight, Dust-tight, Corrosion Resistant	
		Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
0 - 2	60	49EC17BB241108R		49EC17BN241108R		49EC17BW241108R	
2 ½ - 3	100	49EC17CB242008R		49EC17CN242008R		49EC17CW242008R	
3 ½ - 4	200	49EC17FB362408R		49EC17FN362408R		49EC17FW362408R	

Table 1b. – FVNR Combination Starter Kits for use with MCP Devices

Starter Size	Max MCP Amps	NEMA 1 General Purpose		NEMA 12, 3/3R, 4 Painted ^① Industrial Use, Weatherproof, Watertight, Dust-tight		NEMA 4/4X Stainless Steel Watertight, Dust-tight, Corrosion Resistant	
		Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
0 - 2	50	49EC18DB241108R		49EC18DN241108R		49EC18DW241108R	
2 ½ - 3	100	49EC18DB242008R		49EC18DN242008R		49EC18DW242008R	
3 ½	125	49EC18DB362408R		49EC18DN362408R		49EC18DW362408R	
4	150	49EC18EB362408R		49EC18EN362408R		49EC18EW362408R	

Table 2a – Non-Fusible Disconnect Kits

Disconnect Switch		
Switch Rating	Catalog Number	List Price \$
30A	HNB612	
60A	HNB623	
100A	HNB623	
200A	HNB64	



Table 2b – Fusible Disconnect Kits

Fuse Clip Ratings	Class	Disconnect Switch		Load Base for Fuse		Rejection Clips for Class R Fusing	
		Catalog Number	List Price \$	Catalog Number	List Price \$	Catalog Number	List Price \$
30A-250V	H	HFB21		HBB21		HR21	
30A-600V	H	HFB612		HBB612		HR612	
60A-250V	H	HFB22		HBB22		HR612	
60A-600V	H	HFB62		HBB62		HR62	
100A-250V	H	HFB63		HBB63		HR63	
100A-600V	H	HFB63		HBB63		HR63	
200A-250V	H	HFB64		HBB64		HR64	
200A-600V	H	HFB64		HBB64		HR64	

Table 3 – Circuit Breaker Kits

Starter Size	MCP Type Used with Solid State Overload Relay			MCP Type Used with Thermal Overload Relay	
	Overload Amp Range	Motor Circuit Interrupter Amps	Circuit Breaker Kit	Motor Circuit Interrupter Amps	Circuit Breaker Kit
0	0.75-3.4	3	ED63A003	3	ED63A003
	3-12	10	ED63A010	10	ED63A010
	5.5-22	25	ED63A025	25	ED63A025
1	0.75-3.4	3	ED63A003	3	ED63A003
	3-12	10	ED63A010	10	ED63A010
	5.5-22	25	ED63A025	25	ED63A025
	10-40	30	ED63A030	30	ED63A030
1 ½	10-40	40	ED63A040	40	ED63A040
2	13-52	50	ED63A050	50	ED63A050
2 ½	25-100	100	ED63A100	100	ED63A100
3	25-100	100	ED63A100	100	ED63A100
3 ½	50-200	125	ED63A125	125	ED63A125
4	50-200	150	FXD63A150L	150	FXD63A150L

① For conduit hubs and conversion instructions, see page 9/110.