



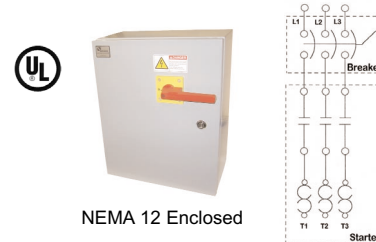
# COMBINATION STARTERS

## AEG Circuit Breaker Type BC-XLS



**COMBINATION CONTROLLER.** Type BC -XLS. All Type BC-XLS Combination Starters are **Service Entrance Design UL508**. Type BC-XLS Combination Controller includes:

- Breakers, 600 Volt are internationally accepted industrial Control Breakers with instantaneous and thermal trip. As well as UL508 approved.
- Door handle safety interlocks
- Type XLS Magnetic starters with precision and consistent overload protection and different single phasing protection.
- Space and drilling for fused control circuit transformer.



Size	Voltage	Design Rating Max HP	Breaker Frame Size	Catalog No. Type BC XLS-	CIRCUIT BREAKER TYPE ENCLOSED (LIST PRICE)			
					General Purpose NEMA 1 -MO1	Non Metal Dust Tight Outdoor NEMA 4X -4X	Dust Tight Drip Tight NEMA 12 -M12	Hazardous Area NEMA 7/9 -M7
0+	200/230	5	100A	-7-1★-★-★-	\$636	\$816	\$816	Check with Factory
0+	460	10	100A	-7-2★-★-★-	636	816	816	
1+	200/230	7 <sup>1/2</sup> /10	100A	-27-1★-★-★-	684	864	864	Factory
1+	460	15	100A	-27-1★-★-★-	684	864	864	
1 <sup>3/4</sup>	200/230	10	100A	-37-1★-★-★-	858	984	984	Check with Factory
1 <sup>3/4</sup>	460	25	100A	-37-2★-★-★-	858	984	984	
2	200/230	15/20	100A	-47-1★-★-★-	984	1,260	1,260	Factory
2	460	40	100A	-47-2★-★-★-	984	1,260	1,260	
2 <sup>1/2</sup>	200/230	20/25	100A	-57-1★-★-★-	1,440	1,606	1,606	Check with Factory
2 <sup>1/2</sup>	460	50	100A	-57-2★-★-★-	1,440	1,606	1,606	
3+	200/230	25/30	100A	-77-1★-★-★-	1,540	1,859	1,859	Factory
3+	460	60	100A	-77-2★-★-★-				
3+	200/230	25/30	160A	-77-3★-★-★-	1,716	1,925	1,925	Check with Factory
3 <sup>1/2</sup>	230	40	160A	-87-1★-★-★-	1,990	2,600	2,600	
3 <sup>1/2</sup>	460	75	160A	-87-2★-★-★-				
4	200/230	40/50	160A	-107-1★-★-★-	2,500	3,170	3,170	Factory
4	460	100	160A	-107-2★-★-★-				
4 <sup>1/2</sup>	230	60	160A	-177-1★-★-★-	3,770	4,400	4,400	Check with Factory
4 <sup>1/2</sup>	460	125	160A	-177-2★-★-★-				
4 <sup>1/2</sup>	200/230	60/75	250A	-177-3★-★-★-	4,290	4,800	4,800	Factory
4 <sup>1/2</sup>	460	150	250A	-177-4★-★-★-				
5	200/230	75/100	400A	-247-1★-★-★-	5,070	6,650	6,650	Check with Factory
5	460	200	400A	-247-2★-★-★-				
5 <sup>1/2</sup>	200/230	125/150	400A	-220K-1★-★-★-	8,870	11,010	11,010	Check with Factory
5 <sup>1/2</sup>	460	300	400A	-220K-2★-★-★-				
6	230	200	1000A	-280K-1★-★-★-	10,900	14,100	14,100	Factory
6	460	400	1000A	-280K-2★-★-★-				
6 <sup>1/2</sup>	230	250	1000A	-375K-1★-★-★-	12,800	15,400	15,400	Factory
6 <sup>1/2</sup>	460	500	1000A	-375K-2★-★-★-				

See page AEG 33, IC-8 Catalog, for starter modifications.

**FOR LARGER COMBINATIONS CONTACT FACTORY**

★ COIL VOLTAGE SUFFIX		
<b>AC★</b>	<b>60HZ</b>	<b>50HZ</b>
-A	120V	110V
-C	208V/230V	220V
-E	480V	440V
-F	600V	550V
-D		380V
-G	24V	22V
<b>DC★</b>		
-MTW	12VDC	• Price Addition for DC Coil.
-NTW	24VDC	
-OTW	48VDC	
-PTW	120VDC	
-RTW	220VDC	

★★ OVERLOAD RELAY SUFFIX			
Suffix	O.L., Relay Setting Range (Amps)		Suffix
	Setting Range (Amps)		
-A	0.12-0.18		-N
-B	0.18-0.28		-O
-C	0.28-0.4		-P
-D	0.4-0.6		Q
-E	0.56-0.8		-RN
-F	0.8-1.2		-SN
-G	1.2-1.8		-TN
-H	1.8-2.8		-TT
-I	2.8-4		-UN
-K	4-6		-UU
-L	5.6-8		-VT
-M	8-12		-WT
			-X

**ORDER EXAMPLE: 15HP 480V #BC XLS27-1E-N-MO1 \$684 LIST**

▶ **TYPE 4X ENCLOSED STARTERS.** Type 4X 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.

• Optional **UL489** Breaker available at a slightly higher list. Consult factory.

All units are complete with built in heaters.

• **TW:** Two Winding D.C. Coil. Add \$25 list each, for sizes LS4 thru LS77. See page AEG 52, IC-8 Catalog, for D.C. Coils on high current contactors.



# COMBINATION STARTERS (Non-Reversing) Fusible Disconnect Type FC-XLS



**COMBINATION CONTROLLER.** Type FC -XLS per UL508 Industrial Control Standard.

Type FC-XLS includes:

- a. UL/CSA Manual Motor Disconnect with door safety interlocks. Industrial Control 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).
- c. Type XLS Starter and overload relay complete with precision ambient compensated heaters and differential single phasing protection.



Optional:  
- HOA  
Pilot Light  
Shown

Size	Voltage	Design Rating Max HP	Fuse Clips (Amps)	Catalog No. Type FC XLS-	CIRCUIT BREAKER TYPE ENCLOSED (LIST PRICE)			
					General Purpose NEMA 1 -MO1	Non Metal Dust Tight Outdoor NEMA 4X -4X	Dust Tight Drip Tight NEMA 12 -M12	Non Fusible Omit Fuse Block Deduct NFCXLS-
0+	200/230	5	30	-7-1★-★★-	\$510	\$620	\$620	\$-26
0+	460	10	30	-7-2★-★★-	510	620	620	-26
1+	200	7 <sup>1/2</sup>	30	-27-1★-★★-	545	690	690	-26
1+	230	10	60	-27-2★-★★-	545	690	690	-26
1+	460	15	30	-27-3★-★★-	545	690	690	-26
1 <sup>3/4</sup>	200/230	10	60	-37-2★-★★-	700	790	790	-26
1 <sup>3/4</sup>	460	25	60	-37-2★-★★-	700	790	790	-26
2+	200/230	15/20	100	-47-1★-★★-	780	990	990	-26
2+	460	40	60	-47-2★-★★-	780	990	990	-26
2 <sup>1/2</sup>	200/230	20/25	100	-57-1★-★★-	1,170	1,430	1,430	-52
2 <sup>1/2</sup>	460	50	100	-57-2★-★★-	1,170	1,430	1,430	-52
3	200/230	25/30	100	-77-1★-★★-	1,390	1,650	1,650	-52
3	460	60	100	-77-2★-★★-	1,390	1,650	1,650	-52
3 <sup>1/2</sup>	230	40	200	-87-1★-★★-	2,150	2,660	2,660	-88
3 <sup>1/2</sup>	460	75	200	-87-2★-★★-	2,150	2,660	2,660	-88
4	200/230	40/50	200	-107-1★-★★-	2,630	3,280	3,280	-88
4	460	100	200	-107-2★-★★-	2,630	3,280	3,280	-88
4 <sup>1/2</sup>	200/230	60/75	400	-177-1★-★★-	4,680	5,200	5,200	-190
4 <sup>1/2</sup>	460	150	400	-177-2★-★★-	4,680	5,200	5,200	-190
5	200/230	75/100	400	-247-1★-★★-	5,600	7,050	7,050	-190
5	460	200	400	-247-2★-★★-	5,600	7,050	7,050	-190
5 <sup>1/2</sup>	200/230	125/150	400	-220K-1★-★★-	9,160	11,210	11,210	-290
5 <sup>1/2</sup>	230	150	600	-220K-2★-★★-	9,260	11,510	11,510	-290
5 <sup>1/2</sup>	460	300	600	-220K-3★-★★-	9,260	11,510	11,510	-290
6	230	200	600	-280K-1★-★★-	<i>Check with Factory</i>			
6	460	400	600	-280K-2★-★★-				
6 <sup>1/2</sup>	230	250	600	-375K-1★-★★-				
6 <sup>1/2</sup>	460	500	600	-375K-2★-★★-				

See page AEG 33, IC-8 Catalog, for starter modifications.

★ OVERLOAD RELAY SUFFIX			
Suffix	O.L., Relay Setting Range (Amps)	Suffix	O.L., Relay Setting Range (Amps)
-A	0.12-0.18	-N	11-17
-B	0.18-0.28	-O	15-23
-C	0.28-0.4	-P	22-32
-D	0.4-0.6	Q	32-50
-E	0.56-0.8	-RN	50-63
-F	0.8-1.2	-SN	63-80
-G	1.2-1.8	-TN	80-110
-H	1.8-2.8	-TT	110-135
-I	2.8-4	-UN	135-160
-K	4-6	-UU	150-180
-L	5.6-8	-VT	175-280
-M	8-12	-WT	250-400
		-X	315-500

★ COIL VOLTAGE SUFFIX		
AC ★	60HZ	50HZ
-A	120V	110V
-C	208V/230V	220V
-E	480V	440V
-F	600V	550V
-D		380V
-G	24V	22V
DC ★		
-MTW	12VDC	• Price Addition for DC Coil.
-NTW	24VDC	
-OTW	48VDC	
-PTW	120VDC	
-RTW	220VDC	

### ▶ TYPE 4X ENCLOSED STARTERS

Type 4X 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.

**NOTE:** The design rating is the recommended application rating for each unit and is also recognized as the international rating by major users throughout the world. All units are complete with built in heaters.

### Service Entrance

For Service Entrance Design, add suffix "SE" Check with factory for possible price addition.

\*To determine overload size, see back inside cover, IC-8 Catalog, for approx. currents.

•TW: Two Winding D.C. Coil. Add \$25 list each, for sizes LS4 thru LS77. See page AEG 52, IC-8 Catalog, for D.C. Coils on high current contactors.