A-C FULL VOLTAGE—MAGNETIC

3 Phase Reversing Combination Starters with Motor Circuit Switch Fusible or Non-fusible

WHEN ORDERING SPECIFY

- Catalog Number
- For Fusible Add Fuse Clip Kit
- Voltage and Frequency
- Heater coil number or full load current.

Plugging and Jogging Service Horsepower Ratings

Maximum Horsepower where operation is interrupted more than 5 times per minute.

NEMA Size	208/220 Volts	440-550 Volts
0	1	1
1	3	5
2	10	15
3	20	30
4	30	60

NON-FUSIBLE FOR REMOTE CONTROL For fusible add fuse clip kit.

Non-Plugging Maximum HP 60-50 Cycles		NEMA Size	General Purpose NEMA 1			General Purpose NEMA 1 with Gasketed Cover		Weatherproof Watertight NEMA 3-4		Dusttight—Industrial NEMA 5-12				
			External Operating Buttons							External Operating Buttons		Internal Operating Buttons		
208/220 Volts	440-550 Volts		Type A Cat. No.	Type SF Cat. No.	Price	Type A Cat. No.	Price	Type A Cat. No.	Price	Type A Cat. No.	Type SF Cat. No.	Type A Cat. No.	Type SF Cat. No.	Price
2 COIL OVERLOAD RELAY—RESET ONLY														
3	5	0	9658-H154	9658-—	$152.	9658-H155	$170.	9658-H156	$274.	9658-H159	9658-—	9658-H160	9658-—	$186.
7½	10	1	H1	H144	162.	H90	180.	H157	284.	H9	X1101	H10	H145	196.
15	25	2	H29	H149	269.	H31	295.	H158	455.	H53	X1201	H54	H150	313.
30	50	3	H101	—	440.	H105	472.	H109	776.	H113	—	H117	—	498.
50	100	4	H123	—	927.	H127	987.	H131	1339.	H135	—	H139	—	1086.
2 COIL OVERLOAD RELAY AND CONTROL TRANSFORMER—RESET ONLY														
7½	10	1	9658-H2	9658-H146	$189.	9658-H91	$207.	9658-X1102	9658-$311.	9658-H11	9658-X1103	9658-H12	9658-H147	$223.
15	25	2	H30	H151	307.	H32	333.	X1202	493.	H55	X1203	H56	H152	351.
2 COIL OVERLOAD RELAY AND CONTROL TRANSFORMER WITH WORKLIGHT CAPACITY—RESET ONLY														
7½	10	1	9658-X1104	9658-X1105	$210.	9658-X1106	$228.	9658-X1107	$332.	9658-X1108	9658-X1109	9658-H13	9658-H148	$244.
15	25	2	X1204	X1205	331.	X1206	357.	X1207	517.	X1208	X1209	H57	H153	375.
3 COIL OVERLOAD RELAY—RESET ONLY														

Factory Assembled 3 coil starter—Add suffix "T" to catalog number and $4.00 to price.

Field Conversion from 2 coil to 3 coil, use spindle kit 10176H150—$2.50 and heater coil $1.50.

Prices include necessary heater coils at $1.50 each.

HEATER COILS for starters in NEMA 1 enclosure, for average 60 cycle 1800 R.P.M. motors.

H.P.	208/220 Volts	440 Volts	550 Volts	H.P.	208/220 Volts	440 Volts	550 Volts
	10177-	10177-	10177-		10177-	10177-	10177-
¼	H1017	H1010	H1008	10	H1045	H1040	H1038
⅓	H1019	H1012	H1010	15	H1049	H1043	H1041
½	H1022	H1016	H1013	20	H1050	H1045	H1043
¾	H1025	H1019	H1017	25	H1052	H1047	H1045
1	H1027	H1021	H1019	30	H1054	H1048	H1046
1½	H1030	H1025	H1023	40	H1056	H1050	H1048
2	H1033	H1066	H1025	50	H1058	H1052	H1050
3	H1036	H1029	H1028	60	—	H1054	H1050
5	H1041	H1034	H1032	75	—	H1055	H1052
7½	H1045	H1038	H1036	100	—	H1058	H1056

For more accurate selection and for other enclosures select heater coils by full load current. See index on page 279.

FUSE CLIP KITS—3 POLE (3 FUSE)

Starter NEMA Size	Voltage	Maximum Horsepower		Fuse Clip Ratings		Fuse Clip Kit Not Installed		Fuse Clip Kit Factory Installed	
		Standard Fuses	Dual Element Fuses	Amperes	Voltage	Fuse Clip Cat.No.	Price	Add to Starter Cat.No.	Price Addition
						10982-			
0	208/220	3	3	30	250	H14	$1.00	—81	$3.00
	440-550	5	5	30	600	H15	1.50	—91	3.50
1	208/220	3	7½	30	250	H14	1.00	—81	3.00
	208/220	7½	—	60	250	H15	1.50	—82	3.50
	440	7½	10	30	600	H15	1.50	—91	3.50
	550	10	10	30	600	H15	1.50	—91	3.50
2	208/220	7½	15	60	250	H16	1.50	—82	4.00
	208/220	15	—	100	250	H18	10.50	—83	13.00
	440-550	15	25	60	600	H17	3.00	—92	5.50
	440-550	25	—	100	600	H18	10.50	—93	13.00
3	208/220	30	30	200	250	H23	16.00	—84	20.50
	440-550	30	50	100	600	H24	10.50	—93	15.00
	440-550	50	—	200	600	H25	16.00	—94	20.50
4	208/220	50	50	400	250	H26	46.00	—85	51.00
	440-550	60	100	200	600	H27	16.00	—94	21.00
	440-550	100	—	400	600	H28	46.00	—95	51.00

Prices do not include fuses