3 Pole Combination Starters with Circuit Breakers

WHEN ORDERING SPECIFY

- Class of construction and type of wiring
- Motor control center layout
- Catalog number, voltage frequency and horsepower of individual units
- Heater coils for individual units, see index page 281.

CONTROL CENTER Layout

A convenient printed form for preparing motor control center layouts and presenting ordering information may be obtained from your Cutler-Hammer office.

(For checking list, see page 248.)

SINGLE SPEED

Type and Cat. No.	Maximum H.P. Ratings 3 Phase, 60 Cycles 208/220 Volts	440-550 Volts	NEMA Size	Circuit Breaker Type	Price CLASS I Type A	CLASS I Type B	CLASS I Type C	CLASS II Type B	CLASS II Type C	Extra Space	Dimensions in Inches W	H	Space Factor
FULL VOLTAGE													
	7½	10	1	F, FA or EH ❸	$248.	$282.	$327.	$310.	$355.	$80.	20	9⅓ or 14	1
Non-Reversing	15	25	2	F	308.	344.	399.	378.	433.	80.	20	14	1
	30	50	3	F	477.	519.	594.	571.	646.	160.	20	18⅔ or 28	2
	50	100	4	JA or KA	911.	❷ 987.	❷ 1062.	❷ 1086.	❷ 1161.	160.	20	28	2
9818	100	200	❶ 5	LA	1846.	❷ 1926.	❷ 2001.	❷ 2119.	❷ 2194.	240.	20	42	3
	200	400	❶ 6	MA	3177.	❷ 3323.	❷ 3443.	❷ 3655.	❷ 3775.	400.	30	70	5
	7½	10	1	F, FA or EH	$387.	$431.	$506.	$474.	$549.	$160.	20	18⅔ or 28	2
	15	25	2	F	509.	555.	640.	611.	696.	160.	20	28	2
Reversing	30	50	3	F	744.	796.	891.	876.	971.	240.	20	42	3
	50	100	4	JA or KA	1427.	❷ 1513.	❷ 1608.	❷ 1664.	❷ 1759.	320.	20	42	3
9828	100	200	❶ 5	LA	2674.	❷ 2764.	❷ 2859.	❷ 3031.	❷ 3126.	320.	20	70	5
REDUCED VOLTAGE—TWO STEP—PART WINDING—STAR CONNECTED MOTORS													
Non-Reversing	15	20	1PW	F	$594.	$654.	$734.	$719.	$799.	$160.	20	28	2
	30	50	2PW	F	788.	854.	954.	939.	1039.	240.	20	28	2
	60	100	3PW	JA or KA	1166.	1242.	1362.	1366.	1486.	320.	20	42	3
9836	100	200	4PW	LA	2096.	❶ 2222.	❶ 2342.	❶ 2444.	❶ 2564.	400.	20	56	4
REDUCED VOLTAGE—AUTO TRANSFORMER TYPE													
	15	25	2	F	$1027.	$1069.	$1144.	$1176.	$1251.	$320.	20	42	3
	25	---			1127.	1169.	1244.	1286.	1361.	320.			
Non-Reversing	30	30	3	F	1170.	1212.	1287.	1333.	1408.	320.	20	56	4
	---	50			1194.	1236.	1311.	1360.	1435.	320.			
Closed Transition	50	---	❶ 4	JA or KA	2029.	❷ 2105.	❷ 2180.	❷ 2316.	❷ 2391.	400.	20	70	5
	---	100			2053.	❷ 2129.	❷ 2204.	❷ 2342.	❷ 2417.	400.			
	75	---			3184.	❷ 3264.	❷ 3339.	❷ 3590.	❷ 3665.	400.			
9838	100	---	❶ 5	LA	3340.	❷ 3420.	❷ 3495.	❷ 3762.	❷ 3837.	400.	30	70	5
	---	150			3256.	❷ 3336.	❷ 3411.	❷ 3670.	❷ 3745.	400.			
	---	200			3534.	❷ 3614.	❷ 3689.	❷ 3975.	❷ 4050.	400.			

TWO SPEED - FULL VOLTAGE NON-REVERSING

Type and Cat. No.	Max. H.P. Ratings 3 Ph. 60 Cy. Constant or Variable Torque 208/220 Volts	440-550 Volts	Constant Horsepower 208/220 Volts	440-550 Volts	NEMA Size	Circuit Breaker Type	Price Class I Type A	Class I Type B	Class I Type C	Class II Type B	Class II Type C	Extra Space	Dimensions in Inches W	H	Space Factor
Separate Winding Type Motors 9857	7½	10	3	5	1	F	$464.	$524.	$604.	$576.	$656.	$160.	20	28	2
	15	25	10	20	2	F	601.	667.	767.	734.	834.	160.	20	28	2
	30	50	20	40	3	F	826.	902.	1022.	992.	1112.	240.	20	42	3
	50	100	30	60	4	JA or KA	1593.	❷ 1719.	❷ 1839.	❷ 1891.	❷ 2011.	400.	20	42	3
	100	200	75	150	❶ 5	LA	3107.	❷ 3241.	❷ 3361.	❷ 3564.	❷ 3685.	400.	20	70	5
Reconnectable Winding Type Motors 9866	7½	10	3	5	1	F	$506.	$566.	$646.	$623.	$703.	$160.	20	28	2
	15	25	10	20	2	F	681.	747.	847.	822.	922.	160.	20	28	2
	30	50	20	40	3	F	934.	1010.	1130.	1111.	1231.	240.	20	42	3
	50	100	30	60	4	JA or KA	1957.	❷ 2083.	❷ 2203.	❷ 2291.	❷ 2411.	400.	20	56	4
	100	200	75	150	❶ 5	LA	3496.	❷ 3632.	❷ 3752.	❷ 3995.	❷ 4115.	400.	30	70	5

❶ Stationary units, not plug-in type.
❷ Load terminal blocks not provided.
❸ Type EH circuit breaker in 480 volts max.; type FA circuit breaker magnetic trip only

DISCOUNT SCHEDULE ICD-2