

Reduced voltage Starters

Part winding – non-reversing Three phase

3

UL motor switching current	Maximum ratings – UL Listed				Open type		UL Type 1 (Indoor metal)	
	Maximum motor horsepower ratings ①				Catalog number	List price	Catalog number	List price
	200/208V	230/240V	460/480V	575/600V				
	UL rated							
28	15	15	40	40	A26SH-84★◆	\$ 1917	A26SH1-84★◆	\$ 1971
34	15	20	40	50	A30SH-84★◆	2097	A30SH1-84★◆	2151
42	20	25	50	60	A40SH-84★◆	2586	A40SH1-84★◆	2643
54	25	30	60	75	A50SH-84★◆	2664	A50SH1-84★◆	2808
65	30	40	75	100	A63SH-84★◆	3305	A63SH1-84★◆	3458
80	40	50	100	125	A75SH-84★◆	3708	A75SH1-84★◆	3960
95	50	60	125	150	A95SH-84★◆	6700	A95SH1-84★◆	6950
110	60	60	150	150	A110SH-84★◆	7142	A110SH1-84★◆	7395
130	75	75	150	200	A145SH-84★◆	8001	A145SH1-84★◆	8469
156	75	100	200	250	A185SH-84★◆	10,098	A185SH1-84★◆	10,569
192	100	125	250	300	A210SH-84★◆	14,310	A210SH1-84★◆	14,769
248	125, 150	150	300, 350	350, 400	A260SH-84★◆	16,749	A260SH1-84★◆	17,739
302	200, 250	200	400	500	A300SH-84★◆	30,591	A300SH1-84★◆	31,590
414	300	300	600	800	A400SH-70★◆	36,000	A400SH1-70★◆	37,089
480	300	350	700	900	A460SH-70★◆	39,885	A460SH1-70★◆	42,938
590	350	400	800	1000	A580SH-70★◆	42,158	A580SH1-70★◆	51,471
720	500	500	1100	1400	A750SH-70★◆	50,994	A750SH1-70★◆	56,664

NEMA rated					
NEMA size	Continuous current	200V	230V	460/575V	
1	27	10	10	15	A26N1SH-84★◆ \$ 1917
2	45	20	25	40	A50N2SH-84★◆ 2664
3	90	40	50	75	A75N3SH-84★◆ 3708
4	135	75	125	150	A145N4SH-84★◆ 8001
5	270	150	150	350	A260N5SH-84★◆ 16,749
6	540	250	300	600	A460N6SH-70★◆ 39,885
7	810	400	450	900	A750N7SH-70★◆ 50,994

★ Overload Relay suffix code. Select from the overload relay selection chart on page 3.6.
◆ Horsepower and line voltage suffix code. Select from page 3.74.

Part winding

The part winding starter reduces inrush current by using two different sets of windings in the motor. Therefore, part winding starters can be used only with motors having stator windings divided into two equal parts with the terminals of each part available for external connection.

The part winding starter consists of two across the line starters and a timer. The first starter is used to connect one winding of the motor across the line. The starting current from one winding will be about 50% of the starting current if both windings were connected. The starting torque is correspondingly 50%.

Because the starting torque is so low and will not increase until the second winding is connected, the motor may not begin to accelerate. Therefore, the time delay for the second winding to be energized should not be more than 4 seconds.

When the second winding is energized, the inrush current will increase depending upon the speed of the motor when the second winding is energized.

Coil voltage selection

All AC operated catalog numbers include a 120VAC coil. To select other coil voltages, substitute the code from the Coil Voltage Selection Chart for the two digits after the last dash in the catalog number.

Ex.: A 240V coil is required for an A75 starter: A75SH1-80★

Factory modifications

See page 3.3

Coil voltage selection chart

Hz	Cntr type	Volts															
		12	24	48	110	120	125	208	220	240	277	380	415	440	480	500	600
60	A		81	83	84	84		34	36	80	42		86	86	51	53	55
50	A		81	83	84				80			85	86			55	

For other voltages, see page 1.26.

Hz	Cntr type	Volts			
		24 - 60	48 - 130	100 - 250	250 - 500
60	AF	68	69	70	71
50	AF	68	69	70	71
DC	AF	68	69	70	71

Control transformer voltage selection chart

Hz	Type	Volts			
		208/120	230 - 240/120	460 - 480/120	575 - 600/120
50/60	A/AF	0	7	8	9

For other voltages, consult factory

Contactors and overload relays are sized at 50% of full load amps!

① No primary fusing provided.