

Part winding, non-reversing A26 - A750 Three phase

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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
810	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	A26NSH1-84★◆	\$ 1971
2	45	20	25	40	A50N2SH-84★◆	2664	A50NSH1-84★◆	2808
3	90	40	50	75	A75N3SH-84★◆	3708	A75NSH1-84★◆	3960
4	135	75	125	150	A145N4SH-84★◆	8001	A145NSH1-84★◆	8469
5	270	150	150	350	A260N5SH-84★◆	16,749	A260NSH1-84★◆	17,739
6	540	250	300	600	A460N6SH-70★◆	39,885	A460NSH1-70★◆	42,938
7	810	400	450	900	A750N7SH-70★◆	50,994	A750NSH1-70★◆	56,664

★ 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.

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

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 ②
50	AF	68	69	70	71 ②
DC	AF	68	69	70	71 ②

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

① No primary fusing provided.
② AF400 - AF750 only.

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Reduced voltage
starters

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UL Type 3R (Outdoor metal)		UL Type 12 (Metal dusttight)		UL Type 4 (Watertight)		UL Type 4X (Stainless steel)	
Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price

UL rated

A26SH3-84★◆	\$ 2871	A26SH2-84★◆	\$ 2871	A26SH4-84★◆	\$ 3051	A26SHX-84★◆	\$ 3638
A30SH3-84★◆	3075	A30SH2-84★◆	3075	A30SH4-84★◆	3233	A30SHX-84★◆	3825
A40SH3-84★◆	3543	A40SH2-84★◆	3543	A40SH4-84★◆	3723	A40SHX-84★◆	4313
A50SH3-84★◆	3933	A50SH2-84★◆	3933	A50SH4-84★◆	4023	A50SHX-84★◆	4500
A63SH3-84★◆	4583	A63SH2-84★◆	4583	A63SH4-84★◆	4673	A63SHX-84★◆	5363
A75SH3-84★◆	5310	A75SH2-84★◆	5310	A75SH4-84★◆	5715	A75SHX-84★◆	6540
A95SH3-84★◆	8500	A95SH2-84★◆	8500	A95SH4-84★◆	8700	A95SHX-84★◆	9300
A110SH3-84★◆	8745	A110SH2-84★◆	8745	A110SH4-84★◆	9150	A110SHX-84★◆	9900
A145SH3-84★◆	10,269	A145SH2-84★◆	10,269	A145SH4-84★◆	11,232	A145SHX-84★◆	12,225
A185SH3-84★◆	12,369	A185SH2-84★◆	12,369	A185SH4-84★◆	13,332	A185SHX-84★◆	14,813
A210SH3-84★◆	16,569	A210SH2-84★◆	16,569	A210SH4-84★◆	17,532	A210SHX-84★◆	19,050
A260SH3-84★◆	20,169	A260SH2-84★◆	20,169	A260SH4-84★◆	22,869	A260SHX-84★◆	26,100
A300SH3-84★◆	34,020	A300SH2-84★◆	34,020	A300SH4-84★◆	36,720	A300SHX-84★◆	38,225
A400SH3-70★◆	41,589	A400SH2-70★◆	41,589	A400SH4-70★◆	42,552	A400SHX-70★◆	45,263
A460SH3-70★◆	47,438	A460SH2-70★◆	47,438	A460SH4-70★◆	48,401	A460SHX-70★◆	49,913
A580SH3-70★◆	55,971	A580SH2-70★◆	55,971	A580SH4-70★◆	56,934	A580SHX-70★◆	59,400
A750SH3-70★◆	62,064	A750SH2-70★◆	62,064	A750SH4-70★◆	62,541	A750SHX-70★◆	66,150

NEMA rated

A26NSH3-84★◆	\$ 2871	A26NSH2-84★◆	\$ 2871	A26NSH4-84★◆	\$ 3051	A26NSHX-84★◆	\$ 3638
A50NSH3-84★◆	3933	A50NSH2-84★◆	3933	A50NSH4-84★◆	4023	A50NSHX-84★◆	4500
A75NSH3-84★◆	5310	A75NSH2-84★◆	5310	A75NSH4-84★◆	5715	A75NSHX-84★◆	6540
A145NSH3-84★◆	10,269	A145NSH2-84★◆	10,269	A145NSH4-84★◆	11,232	A145NSHX-84★◆	12,225
A260NSH3-84★◆	20,169	A260NSH2-84★◆	20,169	A260NSH4-84★◆	22,869	A260NSHX-84★◆	26,100
A460NSH3-70★◆	47,438	A460NSH2-70★◆	47,438	A460NSH4-70★◆	48,401	A460NSHX-70★◆	49,913
A750NSH3-70★◆	62,064	A750NSH2-70★◆	62,064	A750NSH4-70★◆	62,541	A750NSHX-70★◆	66,150

- ★ 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.

Control transformer option

Contactor size	VA rating	List price adder
A9 - A40	45 ①	\$ 300
A9 - A40	50	360
A50 - A75	75	435
A95 - A110	100	560
A145 - A185	150	720
A210 - A300	250	795
A400 - A460	150	720 ②
A580 - A750	250	795 ②

① No primary fusing provided.
 ② A400 - A750 utilizes the AF wide range coil with a lower coil consumption than A210 - A300.