

Reduced voltage Starters

Wye-delta, open transition 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 [Ⓜ]				Catalog number	List price	Catalog number	List price
	200/208V	230/240V	460/480V	575/600V				
UL rated								
28	15	15	40	40	A26SG-84★◆	\$ 3038	A26SG1-84★◆	\$ 3092
34	15	20	40	50	A30SG-84★◆	3347	A30SG1-84★◆	3392
42	20	25	50	60	A40SG-84★◆	3450	A40SG1-84★◆	3494
54	25	30	60	75	A50SG-84★◆	3515	A50SG1-84★◆	3659
65	30	40	75	100	A63SG-84★◆	3615	A63SG1-84★◆	4704
80	40	50	100	125	A75SG-84★◆	4766	A75SG1-84★◆	5324
95	50	60	125	150	A95SG-84★◆	6600	A95SG1-84★◆	6900
110	60	60	150	150	A110SG-84★◆	8834	A110SG1-84★◆	9222
130	75	75	150	200	A145SG-84★◆	10,103	A145SG1-84★◆	11,333
156	75	100	200	250	A185SG-84★◆	13,133	A185SG1-84★◆	14,120
192	100	125	250	300	A210SG-84★◆	15,498	A210SG1-84★◆	16,500
248	125, 150	150	300, 350	350, 400	A260SG-84★◆	17,960	A260SG1-84★◆	19,958
302	150	200	400	500	A300SG-84★◆	25,950	A300SG1-84★◆	27,900
414	200, 250	250	500	700	A400SG-70★◆	36,000	A400SG1-70★◆	38,916
480	300	300	650	850	A460SG-70★◆	38,506	A460SG1-70★◆	42,710
590	350	400	800	1000	A580SG-70★◆	49,409	A580SG1-70★◆	51,018
720	450	500	1000	1250	A750SG-70★◆	54,401	A750SG1-70★◆	57,605

NEMA rated								
NEMA size	Continuous current	200V	230V	460/575V				
1	27	10	10	15	A26N1SG-84★◆	\$ 3038	A26NSG1-84★◆	\$ 3092
2	45	20	25	40	A50N2SG-84★◆	3515	A50NSG1-84★◆	3659
3	90	40	50	75	A75N3SG-84★◆	4766	A75NSG1-84★◆	5324
4	135	60	75	150	A145N4SG-84★◆	10,103	A145NSG1-84★◆	11,333
5	270	150	150	300	A260N5SG-84★◆	17,960	A260NSG1-84★◆	19,958
6	540	300	350	700	A460N6SG-70★◆	39,506	A460NSG1-70★◆	42,710
7	810	500	500	1000	A750N7SG-70★◆	54,401	A750NSG1-70★◆	57,605

★ 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.

Description

The wye-delta open transition starter starts the motor by closing the S and 1M contactors which energize the windings in wye. The inrush current in wye is reduced to 33% of what it would be if the motor was started with an across the line starter.

The starting time in wye is adjustable with a timer. After the elapsed time, the S contactor opens which closes the 2M contactor; there is a short period (about 50ms) when the motor is not energized; and then the motor runs full voltage in delta.

A wye-delta starter requires a wye-delta wound motor with all six leads terminated outside the motor housing.

Factory modifications

See page 3.3

Contactor and overload relays are sized at 58% 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: A75SG1-80★

Coil voltage selection – A9 - A300 [Ⓜ]

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.

Coil voltage selection – A400 - A750 [Ⓜ]

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.

[Ⓜ] For AF50 - AF300 starters, consult factory.