

# Wye-delta, open transition

## A26 - A750

### Three phase

3

UL motor switching current	Maximum ratings – UL Listed				Open type		UL Type 1 (Indoor metal)	
	Maximum motor horsepower ratings <sup>①</sup>				Catalog number	List price	Catalog number	List price
	200/208V	230/240V	460/480V	575/600V				
<b>UL rated</b>								
28	15	15	40	40	A26SG-84Δ‡	\$ 3038	A26SG1-84Δ‡	\$ 3092
34	15	20	40	50	A30SG-84Δ‡	3347	A30SG1-84Δ‡	3392
42	20	25	50	60	A40SG-84Δ‡	3450	A40SG1-84Δ‡	3494
54	25	30	60	75	A50SG-84Δ‡	3515	A50SG1-84Δ‡	3659
65	30	40	75	100	A63SG-84Δ‡	3615	A63SG1-84Δ‡	4704
80	40	50	100	125	A75SG-84Δ‡	4766	A75SG1-84Δ‡	5324
95	50	60	125	150	A95SG-84Δ‡	6600	A95SG1-84Δ‡	6900
110	60	60	150	150	A110SG-84Δ‡	8834	A110SG1-84Δ‡	9222
130	75	75	150	200	A145SG-84Δ‡	10,103	A145SG1-84Δ‡	11,333
156	75	100	200	250	A185SG-84Δ‡	13,133	A185SG1-84Δ‡	14,120
192	100	125	250	300	A210SG-84Δ‡	15,498	A210SG1-84Δ‡	16,500
248	125, 150	150	300, 350	350, 400	A260SG-84Δ‡	17,960	A260SG1-84Δ‡	19,958
302	150	200	400	500	A300SG-84Δ‡	25,950	A300SG1-84Δ‡	27,900
414	200, 250	250	500	700	A400SG-70Δ‡	36,000	A400SG1-70Δ‡	38,916
480	300	300	650	850	A460SG-70Δ‡	38,506	A460SG1-70Δ‡	42,710
590	350	400	800	1000	A580SG-70Δ‡	49,409	A580SG1-70Δ‡	51,018
810	450	500	1000	1250	A750SG-70Δ‡	54,401	A750SG1-70Δ‡	57,605

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

Δ 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: A75SG1-80Δ

#### Coil voltage selection – A9 - A300 ①

Hz	Cntr	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 ①

Hz	Cntr	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 For AF50 - AF300 starters, consult factory.  
② For AF400 - AF750 only.

# Wye-delta, open transition

## A26 - A750

### Three phase

Reduced voltage  
starters

3

UL Type 3R (Outdoor Metal)		UL Type 12 (Metal Dustight)		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

A26SG3-84Δ‡	<b>\$ 3992</b>	A26SG2-84Δ‡	<b>\$ 3992</b>	A26SG4-84Δ‡	<b>\$ 4172</b>	A26SGX-84Δ‡	<b>\$ 4800</b>
A30SG3-84Δ‡	<b>4335</b>	A30SG2-84Δ‡	<b>4335</b>	A30SG4-84Δ‡	<b>4485</b>	A30SGX-84Δ‡	<b>5138</b>
A40SG3-84Δ‡	<b>4425</b>	A40SG2-84Δ‡	<b>4425</b>	A40SG4-84Δ‡	<b>4575</b>	A40SGX-84Δ‡	<b>5400</b>
A50SG3-84Δ‡	<b>4784</b>	A50SG2-84Δ‡	<b>4784</b>	A50SG4-84Δ‡	<b>4874</b>	A50SGX-84Δ‡	<b>5738</b>
A63SG3-84Δ‡	<b>5847</b>	A63SG2-84Δ‡	<b>5847</b>	A63SG4-84Δ‡	<b>5850</b>	A63SGX-84Δ‡	<b>6750</b>
A75SG3-84Δ‡	<b>6674</b>	A75SG2-84Δ‡	<b>6674</b>	A75SG4-84Δ‡	<b>7079</b>	A75SGX-84Δ‡	<b>8438</b>
A95SG3-84Δ‡	<b>7875</b>	A95SG2-84Δ‡	<b>7875</b>	A95SG4-84Δ‡	<b>8205</b>	A95SGX-84Δ‡	<b>9625</b>
A110SG3-84Δ‡	<b>10,508</b>	A110SG2-84Δ‡	<b>10,508</b>	A110SG4-84Δ‡	<b>10,950</b>	A110SGX-84Δ‡	<b>13,125</b>
A145SG3-84Δ‡	<b>12,902</b>	A145SG2-84Δ‡	<b>12,902</b>	A145SG4-84Δ‡	<b>13,865</b>	A145SGX-84Δ‡	<b>16,238</b>
A185SG3-84Δ‡	<b>14,385</b>	A185SG2-84Δ‡	<b>14,385</b>	A185SG4-84Δ‡	<b>15,150</b>	A185SGX-84Δ‡	<b>18,150</b>
A210SG3-84Δ‡	<b>18,215</b>	A210SG2-84Δ‡	<b>18,215</b>	A210SG4-84Δ‡	<b>19,035</b>	A210SGX-84Δ‡	<b>21,450</b>
A260SG3-84Δ‡	<b>22,388</b>	A260SG2-84Δ‡	<b>22,388</b>	A260SG4-84Δ‡	<b>25,088</b>	A260SGX-84Δ‡	<b>27,338</b>
A300SG3-84Δ‡	<b>30,383</b>	A300SG2-84Δ‡	<b>30,383</b>	A300SG4-84Δ‡	<b>31,538</b>	A300SGX-84Δ‡	<b>35,475</b>
A400SG3-84Δ‡	<b>41,150</b>	A400SG2-84Δ‡	<b>41,150</b>	A400SG4-84Δ‡	<b>42,816</b>	A400SGX-84Δ‡	<b>46,575</b>
A460SG3-70Δ‡	<b>46,085</b>	A460SG2-70Δ‡	<b>46,085</b>	A460SG4-70Δ‡	<b>49,460</b>	A460SGX-70Δ‡	<b>51,900</b>
A580SG3-70Δ‡	<b>54,576</b>	A580SG2-70Δ‡	<b>54,576</b>	A580SG4-70Δ‡	<b>57,783</b>	A580SGX-70Δ‡	<b>61,425</b>
A750SG3-70Δ‡	<b>60,980</b>	A750SG2-70Δ‡	<b>60,980</b>	A750SG4-70Δ‡	<b>64,355</b>	A750SGX-70Δ‡	<b>70,125</b>

#### NEMA rated

A26NSG3-84Δ‡	<b>\$ 3992</b>	A26NSG2-84Δ‡	<b>\$ 3992</b>	A26NSG4-84Δ‡	<b>\$ 4172</b>	A26NSGX-84Δ‡	<b>\$ 4800</b>
A50NSG3-84Δ‡	<b>4784</b>	A50NSG2-84Δ‡	<b>4784</b>	A50NSG4-84Δ‡	<b>4874</b>	A50NSGX-84Δ‡	<b>5738</b>
A75NSG3-84Δ‡	<b>6674</b>	A75NSG2-84Δ‡	<b>6674</b>	A75NSG4-84Δ‡	<b>7079</b>	A75NSGX-84Δ‡	<b>8438</b>
A145NSG3-84Δ‡	<b>12,902</b>	A145NSG2-84Δ‡	<b>12,902</b>	A145NSG4-84Δ‡	<b>13,865</b>	A145NSGX-84Δ‡	<b>16,238</b>
A260NSG3-84Δ‡	<b>22,388</b>	A260NSG2-84Δ‡	<b>22,388</b>	A260NSG4-84Δ‡	<b>25,088</b>	A260NSGX-84Δ‡	<b>27,338</b>
A460NSG3-70Δ‡	<b>46,085</b>	A460NSG2-70Δ‡	<b>46,085</b>	A460NSG4-70Δ‡	<b>49,460</b>	A460NSGX-70Δ‡	<b>51,900</b>
A750NSG3-70Δ‡	<b>60,980</b>	A750NSG2-70Δ‡	<b>60,980</b>	A750NSG4-70Δ‡	<b>64,355</b>	A750NSGX-70Δ‡	<b>70,125</b>

Δ 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	<b>\$ 300</b>
A9 - A40	50	<b>360</b>
A50 - A75	75	<b>435</b>
A95 - A110	100	<b>560</b>
A145 - A185	150	<b>720</b>
A210 - A300	250	<b>795</b>
A400 - A460	150	<b>720</b> ②
A580 - A750	250	<b>795</b> ②

① No primary fusing provided.

② A400 - A750 utilizes the AF wide range coil with a lower coil consumption than A210 - A300.