

Across the line Starters



Across the line starters

Open & enclosed

A9 – A750



Description A9 – A750

- Maximum UL/CSA horsepower ratings
- UL508A Panel Program, #E105450
- NEMA sizes 00 – 7 available
- Compact space-saving design
- Standard auxiliary contact configurations:
A9 – A40 1 NO or 1 NC
A50 – A750 1 NO & 1 NC
- Additional auxiliary contact blocks are available
- DC ratings & DC control operation available
- Fast, snap-on DIN rail mounting (A9 - A110)
- Double break contact design
- Snap-on front and side mounted accessories include mechanical latch, pneumatic timer and 1 & 4 pole auxiliary contact blocks (A9 – A110)
- Easy coil change
- Captive terminal screws
- NEMA, UL, CSA, and most other international standards
- cUL marked
- Operates over an extended voltage range of 85% to 110% of rated control voltage
- Screwdriver guide holes

Enclosure types

- NEMA 1 (Indoor metal)
- NEMA 3R (Outdoor metal)
- NEMA 12 (Metal dusttight)
- NEMA 4X (Stainless steel)
- NEMA 4 (Water tight)
- NEMA 1, 3R, 4, 4X, & 12 (Plastic)
- IP 65 plastic A9 – A16 starters
- NEMA 7 & 9
Class I, Group C, D, Div 1 & 2
Class II, Groups E, F, & G, Div 1 & 2
Class III, 4X

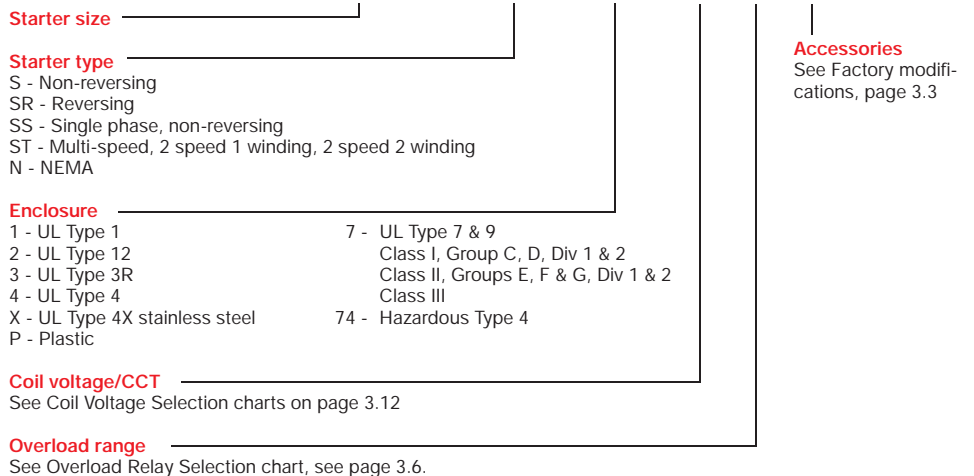
Overload relay protection

Starters, sizes A9–A185, have Class 10 adjustable thermal bimetallic overload relay protection as standard.

Sizes A210 – A750, have selectable Class 10, 20, 30 adjustable electronic overload relay protection as standard.

Electronic overload relay protection is available for other starter sizes.

A110 SR 1 - 84 C A





Starter selection by motor horsepower & voltage

Maximum UL/CSA ratings, three phase

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Motor horsepower				Complete starter	Starter components	
3-phase, 1800 RPM ①					Contactors	Overload relays
200V	230V	460V	575V	Catalog number	Catalog number	Catalog number
—	—	—	1/4	A9S-84C	A9-30-10-84	TA25DU0.4 (0.25 – .4)
—	—	1/4,1/3	1/3	A9S-84D	A9-30-10-84	TA25DU0.63 (0.4 – .63)
—	—	—	1/2	A9S-84E	A9-30-10-84	TA25DU1.0 (0.63 – 1.0)
—	—	1/2	3/4	A9S-84F	A9-30-10-84	TA25DU1.4 (1.0 – 1.4)
—	—	3/4	—	A9S-84G	A9-30-10-84	TA25DU1.8 (1.3 – 1.8)
—	1/2	1	1.5	A9S-84H	A9-30-10-84	TA25DU2.4 (1.7 – 2.4)
1/2	—	1.5	2	A9S-84J	A9-30-10-84	TA25DU3.1 (2.2 – 3.1)
3/4	3/4	2	—	A9S-84K	A9-30-10-84	TA25DU4.0 (2.8 – 4.0)
—	1	—	3	A9S-84L	A9-30-10-84	TA25DU5.0 (3.5 – 5.0)
1	1.5	3	5	A9S-84M	A9-30-10-84	TA25DU6.5 (4.5 – 6.5)
2	2	5	—	A9S-84N	A9-30-10-84	TA25DU8.5 (6.0 – 8.5)
—	—	—	7.5	A9S-84P	A9-30-10-84	TA25DU11 (7.5 – 11)
3	3	7.5	10	A12S-84Q	A12-30-10-84	TA25DU14 (10 – 14)
5	5	10	15	A16S-84R	A16-30-10-84	TA25DU19 (13 – 19)
—	7.5	15	20	A26S-84S	A26-30-10-84	TA25DU25 (18 – 25)
7.5	10	20	25	A26S-84T	A26-30-10-84	TA25DU32 (24 – 32)
10	10	—	—	A30S-84B	A30-30-10-84	TA42DU32 (22 – 32)
—	—	25	30	A30S-84C		TA42DU42 (29 – 42)
10	15	30	40	A40S-84C	A40-30-10-84	TA42DU42 (29 – 42)
15	—	40	50	A50S-84D	A50-30-11-84	TA75DU52 (36 – 52)
—	20	—	—	A50S-84E		TA75DU63 (45 – 63)
20	—	—	—	A63S-84F	A63-30-11-84	TA75DU80 (60 – 80)
—	—	50	60	A63S-84F		
25	30	60	75	A75S-84F	A75-30-11-84	
30	—	—	—	A95S-84A	A95-30-11-84	TA110DU90 (65 – 90)
—	40	75	100	A110S-84B	A110-30-11-84	TA110DU110 (80 – 110)
40	—	—	—	A145S-84C	A145-30-11-84	TA200DU135 (100 – 135)
—	50	100	125	A145S-84D		TA200DU150 (110 – 150)
50	60	125	150	A185S-84E	A185-30-11-84	TA200DU175 (130 – 175)
60	75	150	200	A210S-84E3	A210-30-11-84	
75	100	200	250	A260S-84E3	A260-30-11-84	E320D4320 (105-320)
100	—	250	300	A300S-84E3	A300-30-11-84	
125	125, 150	350	400	A400S-70E5	AF400-30-11-70	E500DU500 (170 – 500)
150	200	400	500	A460S-70E5	AF460-30-11-70	
200	250	500	600	A580S-70E8	AF580-30-11-70	E800DU800 (270 – 800)
250	300	600	700	A750S-70E8	AF750-30-11-70	

CAUTION: The above ratings are based on average motor FLA. Actual FLA on the motor nameplate should be used for overload relay setting.

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: A75S-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Coil voltage selection – A9 - A300 ②

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

For other voltages, see page 1.26.

Coil voltage selection – A400 - A750 ②

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.

① For motors with RPM greater or less than 1800 RPM, check full load amp rating on motor nameplate to ensure proper overload protection.

② For AF50 – AF 300 starters, consult factory.

Starter selection by motor horsepower & voltage NEMA sizes & ratings, three phase

Starters **3**

NEMA size	Motor horsepower				Complete starter	Starter components	
	3-phase, 1800 RPM ①					Catalog number	Contactor
	200V	230V	460V	575V	Catalog number		Catalog number
00	—	—	—	1/4	A9N00S-84C	A9N00-30-10-84	TA25DU0.4 (0.25 - .4)
	—	—	—	1/3	A9N00S-84D	A9N00-30-10-84	TA25DU0.63 (0.4 - .63)
	—	—	1/4	1/2	A9N00S-84E	A9N00-30-10-84	TA25DU1.0 (0.63 - 1.0)
	—	1/4	1/3, 1/2	—	A9N00S-84F	A9N00-30-10-84	TA25DU1.4 (1.0 - 1.4)
	—	1/3	3/4	3/4	A9N00S-84G	A9N00-30-10-84	TA25DU1.6 (1.3 - 1.6)
	1/3, 1/4	1/2	1	1	A9N00S-84H	A9N00-30-10-84	TA25DU2.4 (1.7 - 2.4)
	1/2	—	—	1.5, 2	A9N00S-84J	A9N00-30-10-84	TA25DU3.1 (2.2 - 3.1)
	3/4	3/4	1.5, 2	—	A9N00S-84K	A9N00-30-10-84	TA25DU4.0 (2.8 - 4.0)
	—	1	—	—	A9N00S-84L	A9N00-30-10-84	TA25DU5.0 (3.5 - 5.0)
	1	1.5	—	—	A9N00S-84M	A9N00-30-10-84	TA25DU6.5 (4.5 - 6.5)
—	—	—	—	A9N00S-84N	A9N00-30-10-84	TA25DU8.5 (6.0 - 8.5)	
0	—	—	—	3	A16N0S-84L	A16N0-30-10-84	TA25DU5.0 (3.5 - 5.0)
	—	—	3	5	A16N0S-84M	A16N0-30-10-84	TA25DU6.5 (4.5 - 6.5)
	2	2	5	—	A16N0S-84N	A16N0-30-10-84	TA25DU8.5 (6.0 - 8.5)
	3	3	—	—	A16N0S-84P	A16N0-30-10-84	TA25DU11 (7.5 - 11)
1	—	—	—	7.5	A26N1S-84P	A26N1-30-10-84	TA25DU11 (7.5 - 11)
	—	—	7.5	10	A26N1S-84Q	A26N1-30-10-84	TA25DU14 (10 - 14)
	5	5	10	—	A26N1S-84R	A26N1-30-10-84	TA25DU19 (13 - 19)
	7.5	7.5	—	—	A26N1S-84S	A26N1-30-10-84	TA25DU25 (18 - 25)
2	—	—	—	15	A50N2S-84R	A50N2-30-11-84	TA25DU19 (13 - 19) ③
	—	—	15	20	A50N2S-84A	A50N2-30-11-84	TA75DU25 (18 - 25)
	—	10	20	25	A50N2S-84B	A50N2-30-11-84	TA75DU32 (22 - 32)
	10	15	25	—	A50N2S-84C	A50N2-30-11-84	TA75DU42 (29 - 42)
3	—	—	—	30	A75N3S-84C	A75N3-30-11-84	TA75DU42 (29 - 42)
	15	—	30	40	A75N3S-84D	A75N3-30-11-84	TA75DU52 (36 - 52)
	20	20	40	50	A75N3S-84E	A75N3-30-11-84	TA75DU63 (45 - 63)
	25	25, 30	50	—	A75N3S-84F	A75N3-30-11-84	TA75DU80 (60 - 80)
4	—	—	60	60, 75	A145N4S-84A	A145N4-30-11-84	TA200DU90 (65 - 90)
	30	40	75	100	A145N4S-84B	A145N4-30-11-84	TA200DU110 (80 - 110)
	40	50	100	—	A145N4S-84C	A145N4-30-11-84	TA200DU135 (100 - 135)
5	50, 60, 75	60, 75, 100	125, 150, 200	200	A260N5S-8E3	A260N5-30-11-84	E320DU320 (105-320)
	—	100	200	—	A260N5S-8E3	A260N5-30-11-84	E320DU320 (105-320)
6	100, 125	125, 150	250, 300	250, 300	A460N6S-70E5	AF460N6-3011-70	E500DU500 (170 - 500)
	150	200	400	400	A460N6S-70E5	AF460N6-3011-70	E500DU500 (170 - 500)
7	—	250, 300	500, 600	500, 600	A750N7S-70E8	AF750N7-3011-70	E800DU800 (270 - 800)

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CAUTION: The above ratings are based on average motor FLA. Actual FLA on the motor nameplate should be used for overload relay setting.

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: A75NS-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Coil voltage selection – A9 - A300 ②

Hz	type	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 ②

Hz	type	Cntr Volts			
		24 - 60	48 - 130	100 - 250	250 - 500
60	AF	68	69	70	71 ④
50	AF	68	69	70	71 ④
DC	AF	68	69	70	71 ④

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 motors with RPM greater or less than 1800 RPM, check full load amp rating on motor nameplate to ensure proper overload protection.

② For AF50 - AF 300 starters, consult factory.

③ Overload to be base mounted.

④ AF400 - AF750 only.



Non-reversing A9 - A750 Three phase

Open & enclosed

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UL motor switching current	Maximum ratings – UL Listed				Open type	UL Type1 (Indoor metal) ⑤	UL Type 3R (Outdoor metal)
	Maximum motor horsepower ratings ④						
	200/208V	230/240V	460/480V	575/600V	Catalog number	Catalog number	Catalog number
UL rated							
9	2	2	5	7.5	A9S-84★	A9S1-84★	A9S3-84★
11	3	3	7.5	10	A12S-84★	A12S1-84★	A12S3-84★
17	5	5	10	15	A16S-84★	A16S1-84★	A16S3-84★
28	7.5	10	20	25	A26S-84★	A26S1-84★	A26S3-84★
34	10	10	25	30	A30S-84★	A30S1-84★	A30S3-84★
42	10	15	30	40	A40S-84★	A40S1-84★	A40S3-84★
54	15	20	40	50	A50S-84★	A50S1-84★	A50S3-84★
65	20	25	50	50	A63S-84★	A63S1-84★	A63S3-84★
80	25	30	60	75	A75S-84★	A75S1-84★	A75S3-84★
95	30	30	60	75	A95S-84★	A95S1-84★	A95S3-84★
110	30	40	75	100	A110S-84★	A110S1-84★	A110S3-84★
130	40	50	100	125	A145S-84★	A145S1-84★	A145S3-84★
156	50	60	125	150	A185S-84★	A185S1-84★	A185S3-84★
192	60	75	150	200	A210S-84★	A210S1-84★	A210S3-84★
248	75	100	200	250	A260S-84★	A260S1-84★	A260S3-84★
302	100	100	250	300	A300S-84★	A300S1-84★	A300S3-84★
414	125	150	350	400	A400S-70★	A400S1-70★	A400S3-70★
480	150	200	400	500	A460S-70★	A460S1-70★	A460S3-70★
590	200	250	500	600	A580S-70★	A580S1-70★	A580S3-70★
810	250	300	600	700	A750S-70★	A750S1-70★	A750S3-70★

NEMA size	Continuous current	NEMA rated			A9N00S-84★	A9NS1-84★	A9NS3-84★
		200V	230V	460/575V			
00	9	1.5	1.5	2	A16N0S-84★	A16NS1-84★	A16NS3-84★
0	18	3	3	5	A26N1S-84★	A26NS1-84★	A26NS3-84★
1	27	7.5	7.5	10	A50N2S-84★	A50NS1-84★	A50NS3-84★
2	45	10	15	25	A75N3S-84★	A75NS1-84★	A75NS3-84★
3	90	25	30	50	A145N4S-84★	A145NS1-84★	A145NS3-84★
4	135	40	50	100	A260N5S-84★	A260NS1-84★	A260NS3-84★
5	270	75	100	200	A460N6S-70★	A460NS1-70★	A460NS3-70★
6	540	150	200	400	A750N7S-70★	A750NS1-70★	A750NS3-70★
7	810	—	300	600			

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.

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: A75S-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Control transformer option

Contactors size	VA rating
A9 – A40	45 ①
A9 – A40	50
A9 – A40 (N7 & 9)	50
A50 – A75	75
A95 – A110	100
A145 – A185	150
A210 – A300	250
A400 – A460	150
A580 – A750	250

Coil voltage selection – A9 - A300 ②

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 ②

Hz	type	Cntr/Volts			
		24 - 60	48 - 130	100 - 250	250 - 500
60	AF	68	69	70	71 ⑥
50	AF	68	69	70	71 ⑥
DC	AF	68	69	70	71 ⑥

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 For AF50 – AF 300 starters, consult factory.

③ List price reflects larger enclosure for starters with control transformer.

④ A400 - A750 utilizes the AF wide range coil with a lower coil consumption than A210 - A300.

⑤ A9 – A75 starters are mounted in a UL Type 1 lift-off cover enclosure.

⑥ AF400 - AF750 only.

Non-reversing A9 - A750 Three phase



UL Type 12 (Metal dusttight)		UL Type 4 (Watertight)		UL Type 4X (Stainless steel)		UL Type 1, 3R, 4, 4X & 12 (Plastic)		UL Type 7 & 9 non-reversing (Explosion proof)	
Catalog number		Catalog number		Catalog number		Catalog number		Catalog number	
UL rated									
A9S2-84★		A9S4-84★		A9SX-84★		A9SP-84★		A9S7-84★	
A12S2-84★		A12S4-84★		A12SX-84★		A12SP-84★		A12S7-84★	
A16S2-84★		A16S4-84★		A16SX-84★		A16SP-84★		A16S7-84★	
A26S2-84★		A26S4-84★		A26SX-84★		A26SP-84★		A26S7-84★	
A30S2-84★		A30S4-84★		A30SX-84★		A30SP-84★		A30S7-84★	
A40S2-84★		A40S4-84★		A40SX-84★		A40SP-84★		A40S7-84★	
A50S2-84★		A50S4-84★		A50SX-84★		A50SP-84★		A50S7-84★	
A63S2-84★		A63S4-84★		A63SX-84★		A63SP-84★		A63S7-84★	
A75S2-84★		A75S4-84★		A75SX-84★		A75SP-84★		A75S7-84★	
A95S2-84★		A95S4-84★		A95SX-84★		A95SP-84★		A95S7-84★	
A110S2-84★		A110S4-84★		A110SX-84★		A110SP-84★		A110S7-84★	
A145S2-84★		A145S4-84★		A145SX-84★		A145SP-84★		A145S7-84★	
A185S2-84★		A185S4-84★		A185SX-84★		A185SP-84★		A185S7-84★	
A210S2-84★		A210S4-84★		A210SX-84★		A210SP-84★		A210S7-84★	
A260S2-84★		A260S4-84★		A260SX-84★		A260SP-84★		A260S7-84★	
A300S2-84★		A300S4-84★		A300SX-84★		A300SP-84★		A300S7-84★	
A400S2-70★		A400S4-70★		A400SX-70★		—		—	
A460S2-70★		A460S4-70★		A460SX-70★		—		—	
A580S2-70★		A580S4-70★		A580SX-70★		—		—	
A750S2-70★		A750S4-70★		A750SX-70★		—		—	
NEMA rated									
A9NS2-84★		A9NS4-84★		A9NSX-84★		A9NSP-84★		A9NS7-84★	
A16NS2-84★		A16NS4-84★		A16NSX-84★		A16NSP-84★		A16NS7-84★	
A26NS2-84★		A26NS4-84★		A26NSX-84★		A26NSP-84★		A26NS7-84★	
A50NS2-84★		A50NS4-84★		A50NSX-84★		A50NSP-84★		A50NS7-84★	
A75NS2-84★		A75NS4-84★		A75NSX-84★		A75NSP-84★		A75NS7-84★	
A145NS2-84★		A145NS4-84★		A145NSX-84★		A145NSP-84★		A145NS7-84★	
A260NS2-84★		A260NS4-84★		A260NSX-84★		A260NSP-84★		A260NS7-84★	
A460NS2-70★		A460NS4-70★		A460NSX-70★		—		—	
A750NS2-70★		A750NS4-70★		A750NSX-70★		—		—	

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.



Non-reversing A9 - A185 Single phase

Open & enclosed

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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		Catalog number	
	115V	230V				
UL rated						
9	1/2	1	A9SS-84★		A9SS1-84★	
11	3/4	2	A12SS-84★		A12SS1-84★	
17	1	3	A16SS-84★		A16SS1-84★	
28	1.5	5	A26SS-84★		A26SS1-84★	
34	2	7.5	A30SS-84★		A30SS1-84★	
42	3	7.5	A40SS-84★		A40SS1-84★	
54	3	7.5	A50SS-84★		A50SS1-84★	
65	5	10	A63SS-84★		A63SS1-84★	
80	7.5	15	A75SS-84★		A75SS1-84★	
95	7.5	20	A95SS-84★		A95SS1-84★	
110	10	25	A110SS-84★		A110SS1-84★	
130	10	25	A145SS-84★		A145SS1-84★	
156	15	30	A185SS-84★		A185SS1-84★	
NEMA rated						
NEMA size	Continuous current	115V	230V			
00	9	1/3	1	A9N00SS-84★		A9N00SS1-84★
0	18	1	2	A16N0SS-84★		A16N0SS1-84★
1	27	2	3	A26N1SS-84★		A26N1SS1-84★
2	45	3	7.5	A50N2SS-84★		A50N2SS1-84★

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.

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: A75SS-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

DC ratings

Frame size	Max current	Maximum DC HP ratings (UL)	
		125VDC	250VDC
A9	9.5	1	2
A12	13.2	1.5	3
A16	17	2	3
A26	25	3	5
A30	25	3	7.5
A40	40	5	10
A50	58	7.5	15
A63	76	10	20
A75	76	10	25

Control transformer option

Contactors size	VA rating
A9 – A30	45 ①
A9 – A30	50
A40 – A75	75
A95 – A110	100
A145 – A185	150

Coil voltage selection – A9 - A300 ②

Hz	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.

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 For AF50 – AF 300 starters, consult factory.

Non-reversing A9 - A185 Single phase



3

UL Type 3R (Outdoor metal)		UL Type 12 (Metal dustight)		UL Type 4 (Watertight)		UL Type 4X (Stainless steel)		UL Type 1, 3R, 4, 4X & 12 (Plastic)	
Catalog number		Catalog number		Catalog number		Catalog number		Catalog number	
UL rated									
A9SS3-84★		A9SS2-84★		A9SS4-84★		A9SSX-84★		A9SSP-84★	
A12SS3-84★		A12SS2-84★		A12SS4-84★		A12SSX-84★		A12SSP-84★	
A16SS3-84★		A16SS2-84★		A16SS4-84★		A16SSX-84★		A16SSP-84★	
A26SS3-84★		A26SS2-84★		A26SS4-84★		A26SSX-84★		A26SSP-84★	
A30SS3-84★		A30SS2-84★		A30SS4-84★		A30SSX-84★		A30SSP-84★	
A40SS3-84★		A40SS2-84★		A40SS4-84★		A40SSX-84★		A40SSP-84★	
A50SS3-84★		A50SS2-84★		A50SS4-84★		A50SSX-84★		A50SSP-84★	
A63SS3-84★		A63SS2-84★		A63SS4-84★		A63SSX-84★		A63SSP-84★	
A75SS3-84★		A75SS2-84★		A75SS4-84★		A75SSX-84★		A75SSP-84★	
A95SS3-84★		A95SS2-84★		A95SS4-84★		A95SSX-84★		A95SSP-84★	
A110SS3-84★		A110SS2-84★		A110SS4-84★		A110SSX-84★		A110SSP-84★	
A145SS3-84★		A145SS2-84★		A145SS4-84★		A145SSX-84★		A145SSP-84★	
A185SS3-84★		A185SS2-84★		A185SS4-84★		A185SSX-84★		A185SSP-84★	
NEMA Rated									
A9N00SS3-84★		A9N00SS2-84★		A9N00SS4-84★		A9N00SX-84★		A9N00SP-84★	
A16N0SS3-84★		A16N0SS2-84★		A16N0SS4-84★		A16N0SX-84★		A16N0SP-84★	
A26N1SS3-84★		A26N1SS2-84★		A26N1SS4-84★		A26N1SX-84★		A26N1SP-84★	
A50N2SS3-84★		A50N2SS2-84★		A50N2SS4-84★		A50N2SX-84★		A50N2SP-84★	

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.



Reversing A9 - A750 Three phase

Open & enclosed

3

UL motor switching current	Maximum ratings – UL Listed				Open type	UL Type 1 (Indoor metal)
	Maximum motor horsepower ratings ①					
	200/208V	230/240V	460/480V	575/600V	Catalog number	Catalog number
UL rated						
9	2	2	5	7.5	A9SR-84★	A9SR1-84★
11	3	3	7.5	10	A12SR-84★	A12SR1-84★
17	5	5	10	15	A16SR-84★	A16SR1-84★
28	7.5	10	20	25	A26SR-84★	A26SR1-84★
34	10	10	25	30	A30SR-84★	A30SR1-84★
42	10	15	30	40	A40SR-84★	A40SR1-84★
54	15	20	40	50	A50SR-84★	A50SR1-84★
65	20	25	50	50	A63SR-84★	A63SR1-84★
80	25	30	60	75	A75SR-84★	A75SR1-84★
95	30	30	60	75	A95SR-84★	A95SR1-84★
110	30	40	75	100	A110SR-84★	A110SR1-84★
130	40	50	100	125	A145SR-84★	A145SR1-84★
156	50	60	125	150	A185SR-84★	A185SR1-84★
192	60	75	150	200	A210SR-84★	A210SR1-84★
248	75	100	200	250	A260SR-84★	A260SR1-84★
302	100	100	250	300	A300SR-84★	A300SR1-84★
414	125	150	350	400	A400SR-70★	A400SR1-70★
480	150	200	400	500	A460SR-70★	A460SR1-70★
590	200	250	500	600	A580SR-70★	A580SR1-70★
810	250	300	600	700	A750SR-70★	A750SR1-70★

NEMA rated

NEMA size	Continuous current	200V	230V	460/575V		
00	9	1.5	1.5	2	A9N00SR-84★	A9NSR1-84★
0	18	3	3	5	A16N0SR-84★	A16NSR1-84★
1	27	7.5	7.5	10	A26N1SR-84★	A26NSR1-84★
2	45	10	15	25	A50N2SR-84★	A50NSR1-84★
3	90	25	30	50	A75N3SR-84★	A75NSR1-84★
4	135	40	50	100	A145N4SR-84★	A145NSR1-84★
5	270	75	100	200	A260N5SR-84★	A260NSR1-84★
6	540	150	200	400	A460N6SR-70★	A460NSR1-70★
7	810	—	300	600	A750N7SR-70★	A750NSR1-70★

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.

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: A75SS-80F

D.C. operated starters

If DC operation is required, consult factory.

Factory modifications

See page 3.3

Control transformer option

Contactors size	VA rating
A9 – A40	45 ①
A9 – A40	50
A9 – A40 (N7 & 9)	50
A50 – A75	75
A95 – A110	100
A145 – A185	150
A210 – A300	250
A400 – A460	150
A580 – A750	250

Coil voltage selection – A9 - A300 ②

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 ②

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

Volts					
Hz	Type	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 For AF50 – AF 300 starters, consult factory.
 ③ A400 - A750 utilizes the AF wide range coil with a lower coil consumption than A210 - A300.

Reversing A9 - A750 Three phase



3

UL Type 3R (Outdoor metal)		UL Type 12 (Metal dustight)		UL Type 4 (Watertight)		UL Type 4X (Stainless steel)		UL Type 1, 3R, 4, 4X & 12 (Plastic)	
Catalog number		Catalog number		Catalog number		Catalog number		Catalog number	
UL rated									
A9SR3-84★		A9SR2-84★		A9SR4-84★		A9SRX-84★		A9SRP-84★	
A12SR3-84★		A12SR2-84★		A12SR4-84★		A12SRX-84★		A12SRP-84★	
A16SR3-84★		A16SR2-84★		A16SR4-84★		A16SRX-84★		A16SRP-84★	
A26SR3-84★		A26SR2-84★		A26SR4-84★		A26SRX-84★		A26SRP-84★	
A30SR3-84★		A30SR2-84★		A30SR4-84★		A30SRX-84★		A30SRP-84★	
A40SR3-84★		A40SR2-84★		A40SR4-84★		A40SRX-84★		A40SRP-84★	
A50SR3-84★		A50SR2-84★		A50SR4-84★		A50SRX-84★		A50SRP-84★	
A63SR3-84★		A63SR2-84★		A63SR4-84★		A63SRX-84★		A63SRP-84★	
A75SR3-84★		A75SR2-84★		A75SR4-84★		A75SRX-84★		A75SRP-84★	
A95SR3-84★		A95SR2-84★		A95SR4-84★		A95SRX-84★		A95SRP-84★	
A110SR3-84★		A110SR2-84★		A110SR4-84★		A110SRX-84★		A110SRP-84★	
A145SR3-84★		A145SR2-84★		A145SR4-84★		A145SRX-84★		A145SRP-84★	
A185SR3-84★		A185SR2-84★		A185SR4-84★		A185SRX-84★		A185SRP-84★	
A210SR3-84★		A210SR2-84★		A210SR4-84★		A210SRX-84★		A210SRP-84★	
A260SR3-84★		A260SR2-84★		A260SR4-84★		A260SRX-84★		A260SRP-84★	
A300SR3-84★		A300SR2-84★		A300SR4-84★		A300SRX-84★		A300SRP-84★	
A400SR3-70★		A400SR2-70★		A400SR4-70★		A400SRX-70★		—	
A460SR3-70★		A460SR2-70★		A460SR4-70★		A460SRX-70★		—	
A580SR3-70★		A580SR2-70★		A580SR4-70★		A580SRX-70★		—	
A750SR3-70★		A750SR2-70★		A750SR4-70★		A750SRX-70★		—	
NEMA rated									
A9NSR3-84★		A9NSR2-84★		A9NSR4-84★		A9NSRX-84★		A9NSRP-84★	
A16NSR3-84★		A16NSR2-84★		A16NSR4-84★		A16NSRX-84★		A16NSRP-84★	
A26NSR3-84★		A26NSR2-84★		A26NSR4-84★		A26NSRX-84★		A26NSRP-84★	
A50NSR3-84★		A50NSR2-84★		A50NSR4-84★		A50NSRX-84★		A50NSRP-84★	
A75NSR3-84★		A75NSR2-84★		A75NSR4-84★		A75NSRX-84★		A75NSRP-84★	
A145NSR3-84★		A145NSR2-84★		A145NSR4-84★		A145NSRX-84★		A145NSRP-84★	
A260NSR3-84★		A260NSR2-84★		A260NSR4-84★		A260NSRX-84★		A260NSRP-84★	
A460NSR3-70★		A460NSR2-70★		A460NSR4-70★		A460NSRX-70★		—	
A750NSR3-70★		A750NSR2-70★		A750NSR4-70★		A750NSRX-70★		—	

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.