



2 Speed, 1 winding A9 - A750 Three 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	List price	Catalog number	List price
	200/208V	230/240V	460/480V	575/600V				
UL rated								
9	2	2	5	7.5	A9ST-84★1★	\$ 504	A9ST1-84★1★	\$ 690
11	3	3	7.5	10	A12ST-84★1★	525	A12ST1-84★1★	771
17	5	5	10	15	A16ST-84★1★	581	A16ST1-84★1★	837
28	7.5	10	20	25	A26ST-84★1★	752	A26ST1-84★1★	1097
34	10	10	25	30	A30ST-84★1★	1038	A30ST1-84★1★	1316
42	10	15	30	40	A40ST-84★1★	1259	A40ST1-84★1★	1577
54	15	20	40	50	A50ST-84★1★	1697	A50ST1-84★1★	1940
65	20	25	50	50	A63ST-84★1★	2150	A63ST1-84★1★	2195
80	25	30	60	75	A75ST-84★1★	2307	A75ST1-84★1★	2592
95	30	30	60	75	A95ST-84★1★	2495	A95ST1-84★1★	2950
110	30	40	75	100	A110ST-84★1★	2681	A110ST1-84★1★	3851
130	40	50	100	125	A145ST-84★1★	4506	A145ST1-84★1★	5079
156	50	60	125	150	A185ST-84★1★	5845	A185ST1-84★1★	6605
192	60	75	150	200	A210ST-84★1★	6895	A210ST1-84★1★	7825
248	75	100	200	250	A260ST-84★1★	8535	A260ST1-84★1★	10,710
302	100	100	250	300	A300ST-84★1★	9171	A300ST1-84★1★	11,391
414	125	150	350	400	A400ST-70★1★	10,100	A400ST1-70★1★	19,460
480	150	200	400	500	A460ST-70★1★	17,995	A460ST1-70★1★	28,910
590	200	250	500	600	A580ST-70★1★	23,735	A580ST1-70★1★	35,400
810	250	300	600	700	A750ST-70★1★	26,645	A750ST1-70★1★	39,195

NEMA rated								
NEMA size	Continuous current	200V	230V	460/575V				
00	9	1.5	1.5	2	A9N00ST-84★1★	\$ 504	A9NST1-84★1★	\$ 690
0	18	3	3	5	A16N0ST-84★1★	581	A16NST1-84★1★	837
1	27	7.5	7.5	10	A26N1ST-84★1★	752	A26NST1-84★1★	1097
2	45	10	15	25	A50N2ST-84★1★	1697	A50NST1-84★1★	1940
3	90	25	30	50	A75N3ST-84★1★	2307	A75NST1-84★1★	2589
4	135	40	50	100	A145N4ST-84★1★	4506	A145NST1-84★1★	5079
5	270	75	100	200	A260N5ST-84★1★	8535	A260NST1-84★1★	10,710
6	540	150	200	400	A460N6ST-70★1★	17,995	A460NST1-70★1★	28,910
7	810	—	300	600	A750N7ST-70★1★	26,645	A750NST1-70★1★	39,195

★ Overload relay suffix code. Select from the overload relay selection chart on page 3.6.
1st ★ low speed, 2nd ★ high speed

Description

Motors that have separate windings for each speed provide more combinations of speed variations. Multi-speed starters from ABB Control are available for constant horsepower, constant torque and variable torque motors.

Constant horsepower

Motors that maintain the same horsepower regardless of speed are called constant horsepower motors. These motors are used in applications like metal working.

Constant torque

Motors that maintain constant torque at all speeds are called constant torque motors. In applications like conveyors, horsepower varies directly with speed.

Variable torque motors

Motors that produce a torque characteristic which varies as the square of the speed are called variable torque motors and are used in applications like blowers and fans.

Control transformer option

Contactor size	VA rating	List price adder
A9 – A40	45 ①	\$ 300
A9 – A40	50	360
A9 – A40 (N7 & 9)	50	630
A50 – A75	75	435
A95 – A110	100	560
A145 – A185	150	720
A210 – A300	250	795
A400 – A460	150	720 ③
A580 – A750	250	795 ③

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.

④ AF400 - AF750 only.

Coil voltage selection

All catalog numbers include a 120V coil. To select other coil voltages, substitute the code from the coil voltage selection chart for the first digit after the dash in the catalog number.

Ex.: A 240V coil is required for an A95-starter: A95ST-80★1B★

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	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	Volts			
		24 - 60		48 - 130	
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

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.

2 Speed, 1 winding
A9 - A750
Three phase



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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	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price	Catalog number	List price

UL rated									
A9ST3-84★1★	\$ 810	A9ST2-84★1★	\$ 810	A9ST4-84★1★	\$ 1020	A9STX-84★1★	\$ 1305	A9STP-84★1★	\$ 788
A12ST3-84★1★	891	A12ST2-84★1★	891	A12ST4-84★1★	1095	A12STX-84★1★	1416	A12STP-84★1★	869
A16ST3-84★1★	957	A16ST2-84★1★	957	A16ST4-84★1★	1215	A16STX-84★1★	1520	A16STP-84★1★	972
A26ST3-84★1★	1187	A26ST2-84★1★	1187	A26ST4-84★1★	1515	A26STX-84★1★	2012	A26STP-84★1★	1247
A30ST3-84★1★	1406	A30ST2-84★1★	1406	A30ST4-84★1★	1688	A30STX-84★1★	2231	A30STP-84★1★	1466
A40ST3-84★1★	1802	A40ST2-84★1★	1802	A40ST4-84★1★	2100	A40STX-84★1★	2507	A40STP-84★1★	1727
A50ST3-84★1★	2307	A50ST2-84★1★	2307	A50ST4-84★1★	2528	A50STX-84★1★	2757	A50STP-84★1★	2075
A63ST3-84★1★	2945	A63ST2-84★1★	2945	A63ST4-84★1★	3285	A63STX-84★1★	3777	A63STP-84★1★	2330
A75ST3-84★1★	3500	A75ST2-84★1★	3500	A75ST4-84★1★	3788	A75STX-84★1★	4287	A75STP-84★1★	2835
A95ST3-84★1★	3900	A95ST2-84★1★	3900	A95ST4-84★1★	4250	A95STX-84★1★	4850	A95STP-84★1★	3200
A110ST3-84★1★	4511	A110ST2-84★1★	4511	A110ST4-84★1★	4800	A110STX-84★1★	5358	A110STP-84★1★	4300
A145ST3-84★1★	5784	A145ST2-84★1★	5784	A145ST4-84★1★	6265	A145STX-84★1★	7175	A145STP-84★1★	5513
A185ST3-84★1★	7059	A185ST2-84★1★	7059	A185ST4-84★1★	7440	A185STX-84★1★	8400	A185STP-84★1★	6729
A210ST3-84★1★	8500	A210ST2-84★1★	8500	A210ST4-84★1★	8890	A210STX-84★1★	9925	A210STP-84★1★	8103
A260ST3-84★1★	11,455	A260ST2-84★1★	11,455	A260ST4-84★1★	12,940	A260STX-84★1★	15,090	A260STP-84★1★	10,919
A300ST3-84★1★	12,155	A300ST2-84★1★	12,155	A300ST4-84★1★	13,425	A300STX-84★1★	16,275	A300STP-84★1★	11,586
A400ST3-70★1★	20,135	A400ST2-70★1★	20,135	A400ST4-70★1★	21,600	A400STX-70★1★	24,700	—	—
A460ST3-70★1★	29,652	A460ST2-70★1★	29,652	A460ST4-70★1★	30,000	A460STX-70★1★	30,675	—	—
A580ST3-70★1★	35,850	A580ST2-70★1★	35,850	A580ST4-70★1★	36,225	A580STX-70★1★	38,097	—	—
A750ST3-70★1★	40,170	A750ST2-70★1★	40,170	A750ST4-70★1★	40,875	A750STX-70★1★	42,570	—	—

NEMA rated									
A9NST3-84★1★	\$ 810	A9NST2-84★1★	\$ 810	A9NST4-84★1★	\$ 1020	A9NSTX-84★1★	\$ 1305	A9NSTP-84★1★	\$ 788
A16NST3-84★1★	957	A16NST2-84★1★	957	A16NST4-84★1★	1215	A16NSTX-84★1★	1520	A16NSTP-84★1★	972
A26NST3-84★1★	1187	A26NST2-84★1★	1187	A26NST4-84★1★	1515	A26NSTX-84★1★	2012	A26NSTP-84★1★	1247
A50NST3-84★1★	2307	A50NST2-84★1★	2307	A50NST4-84★1★	2528	A50NSTX-84★1★	2757	A50NSTP-84★1★	2075
A75NST3-84★1★	3500	A75NST2-84★1★	3500	A75NST4-84★1★	3788	A75NSTX-84★1★	4287	A75NSTP-84★1★	2835
A145NST3-84★1★	5784	A145NST2-84★1★	5784	A145NST4-84★1★	6265	A145NSTX-84★1★	7175	A145NSTP-84★1★	5513
A260NST3-84★1★	11,455	A260NST2-84★1★	11,455	A260NST4-84★1★	12,940	A260NSTX-84★1★	15,090	A260NSTP-84★1★	10,919
A460NST3-70★1★	29,652	A460NST2-70★1★	29,652	A460NST4-70★1★	30,000	A460NSTX-70★1★	30,675	—	—
A750NST3-70★1★	40,170	A750NST2-70★1★	40,170	A750NST4-70★1★	40,875	A750NSTX-70★1★	42,570	—	—

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