Auto-transformer – non-combination type
Three phase

UL motor switching current	Maximum ratings – UL Listed Maximum motor horsepower ratings Ⓛ				Open type		UL Type 1 (Indoor metal)	
	200/208V	230/240V	460/480V	575/600V	Catalog number	List price	Catalog number	List price
UL rated								
17	5	5	10	15	A16SA-84★	**$ 3987**	A16SA1-84★	**$ 5103**
28	7.5	10	20	25	A26SA-84★	**4341**	A26SA1-84★	**5457**
42	10	15	30	40	A40SA-84★	**4698**	A40SA1-84★	**5814**
54	15	20	40	50	A50SA-84★	**4887**	A50SA1-84★	**6003**
65	20	25	50	50	A63SA-84★	**5130**	A63SA1-84★	**6246**
80	25	30	60	75	A75SA-84★	**5787**	A75SA1-84★	**6471**
95	30	30	60	75	A95SA-84★	**9300**	A95SA1-84★	**9800**
110	30	40	75	100	A110SA-84★	**9972**	A110SA1-84★	**10,694**
130	40	50	100	125	A145SA-84★	**10,863**	A145SA1-84★	**11,853**
156	50	60	125	150	A185SA-84★	**14,334**	A185SA1-84★	**16,880**
192	60	75	150	200	A210SA-84★	**17,196**	A210SA1-84★	**19,781**
248	75	100	200	250	A260SA-84★	**19,670**	A260SA1-84★	**21,668**
302	100	—	250	300	A300SA-84★	**24,042**	A300SA1-84★	**26,034**
414	125	150	350	400	A400SA-70★	**30,996**	A400SA1-70★	**32,981**
480	150	200	400	500	A460SA-70★	**35,978**	A460SA1-70★	**39,182**
590	200	250	500	600	A580SA-70★	**52,562**	A580SA1-70★	**55,898**
720	250	300	600	700	A750SA-70★	**59,250**	A750SA1-70★	**62,618**
NEMA rated								
NEMA size	Continuous current	200V	230V	460/575V				
0	18	3	3	5	A16N0SA-84★	**$ 3987**	A16NSA1-84★	**$ 5103**
1	27	7.5	7.5	10	A26N1SA-84★	**4341**	A26NSA1-84★	**5457**
2	45	10	15	25	A50N2SA-84★	**4887**	A50NSA1-84★	**6003**
3	90	25	30	50	A75N3SA-84★	**5787**	A75NSA1-84★	**6471**
4	135	40	50	100	A145N4SA-84★	**10,863**	A145NSA1-84★	**11,853**
5	270	75	100	200	A260N5SA-84★	**19,670**	A260NSA1-84★	**21,668**
6	540	150	200	400	A460N6SA-70★	**35,978**	A460NSA1-70★	**39,182**
7	810	—	300	600	A750N7SA-70★	**59,250**	A750NSA1-70★	**62,618**

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

Description

An autotransformer starter reduces inrush current by using a transformer in the line just ahead of the motor to step down the voltage applied to the motor terminals. By reducing the voltage, the current drawn from the line is reduced during start-up.

When the setting time on the timer has expired, the autotransformer is bypassed. The 1S contactor drops out, the run contactor closes, and the 2S contactor opens, proving full voltage to the motor.

The ABB autotransformer starter is a closed transition type, meaning that the motor remains connected to the line during the entire acceleration period.

The transformer has three taps which provide 50%, 65% and 80% of full line voltage. At delivery, the transformer is connected to the 65% tap; the inrush current will be reduced to 42% of normal; and the starting torque will be reduced to 42%.

The autotransformer starter can be used for any squirrel-cage motor.

Factory modifications

See page 3.3

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: A75SA-84★

Coil voltage selection – A9 - A300 ①

	Cntr	Volts																
Hz	type	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

Cntr	Volts				
Hz	type	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 For AF50 – AF 300 starters, consult factory.