

9

Technical data

Contents of this chapter

The chapter contains the technical specifications of the drive, for example ratings, sizes and technical requirements as well as provisions for fulfilling the requirements for CE, UL and other approval marks.

Ratings

■ IEC ratings

Drive Type ACS560	Nom- inal In	Max. cur- rent	Output ratings									Frame size
			Nominal use			Light overload use			Heavy-duty use			
			I_N	P_N		I_{Ld} (Con- tinu- ous)	P_{Ld}		I_{Hd} (Con- tinu- ous)	P_{Hd}		
			A	A	A	kW	Hp	A	kW	Hp	A	
3 phases $U_N = 400\text{ V (380...415 V)}$												
02A6-4	2.6	3.2	2.6	0.75	1	2.5	0.75	1	1.8	0.55	0.75	R0
03A3-4	3.3	4.7	3.3	1.1	1.5	3.1	1.1	1.5	2.6	0.75	1	R0
04A0-4	4	5.9	4	1.5	2	3.8	1.5	2	3.3	1.1	1.5	R0
05A6-4	5.6	7.2	5.6	2.2	3	5.3	3	3	4	1.5	2	R0
07A2-4	7.2	10.1	7.2	3	4	6.8	2.2	4	5.6	2.2	3	R0
09A4-4	9.4	13	9.4	4	5	8.9	4	5	7.2	3	4	R0
12A6-4	12.6	16.9	12.6	5.5	7.5	12	5.5	7.5	9.4	4	5	R1

Drive Type ACS560	Nom- inal In	Max. cur- rent	Output ratings									Frame size	
			Nominal use			Light overload use			Heavy-duty use				
			I_N	P_N		I_{Ld} (Con- tinu- ous)		P_{Ld}	I_{Hd} (Con- tinu- ous)		P_{Hd}		
A	A	A	kW	Hp	A	kW	Hp	A	kW	Hp			
017A-4	17	22.7	17	7.5	10	16.2	7.5	10	12.6	5.5	7.5	R2	
025A-4	25	30.6	25	11	15	23.8	11	15	17	7.5	10	R2	
033A-4	33	44.3	33	15	20	30.4	15	20	24.6	11	15	R3	
039A-4	39	56.9	39	18.5	25	36.1	18.5	25	31.6	15	20	R3	
046A-4	46	67.9	46	22	30	42.8	22	30	37.7	18.5	25	R3	
062A-4	62	76	62	30	40	58	30	40	44.6	22	30	R4	
073A-4	73	104	73	37	50	68.4	37	50	61	30	40	R4	
088A-4	88	122	88	45	60	82.7	45	60	72	37	50	R5	
106A-4	106	148	106	55	75	99.8	55	75	87	45	60	R5	
145A-4	145	178	145	75	100	138	75	100	105	55	75	R6	
169A-4	169	247	169	90	120	161	90	120	145	75	100	R7	
206A-4	206	287	206	110	150	196	110	150	169	90	120	R7	
246A-4	246	350	246	132	180	234	132	180	206	110	150	R8	
293A-4	293	418	293	160	215	278	160	215	246 ¹⁾	132	180	R8	

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¹⁾ Continuous current when its used in heavy duty applications, allows 130% of I_{Hd} for 1 minute every 10 minutes at 40 °C.

See definitions and notes in section [Definitions \(page 140\)](#).

■ Definitions

U_N	Nominal voltage
I_1	Nominal input current (rms) at 40 °C (104 °F)
I_{max}	Maximum output current. Available for two seconds at start.
I_N	Nominal output current. Maximum continuous rms output current allowed (no overload).
P_N	Nominal power of the drive. Typical motor power (no overloading). The kilowatt ratings apply to most IEC 4-pole motors. The horsepower ratings apply to most NEMA 4-pole motors.
I_{Ld}	Maximum current with 110% overload, allowed for one minute every ten minutes
P_{Ld}	Typical motor power in light-duty use (110% overload)