

Ratings, types and voltages

1-phase, $U_N = 230$ V (range 200 to 240 V). The power ratings are valid at nominal voltage 230 V (0.25 to 3 kW).

Drive type	Frame size	Nominal ratings		Light-duty use		Heavy-duty use		Max. output current I_{max} (A)
		I_N (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)	
ACS180-04x-02A4-1	R0	2.4	0.37	2.3	0.37	1.8	0.25	3.2
ACS180-04x-03A7-1	R0	3.7	0.55	3.5	0.55	2.4	0.37	4.3
ACS180-04x-04A8-1	R0	4.8	0.75	4.6	0.75	3.7	0.55	6.7
ACS180-04x-06A9-1	R1	6.9	1.1	6.6	1.1	4.5	0.75	8.1
ACS180-04x-07A8-1	R1	7.8	1.5	7.4	1.5	6.6	1.1	11.9
ACS180-04x-09A8-1	R1	9.8	2.2	9.3	2.2	7.4	1.5	13.3
ACS180-04x-12A2-1	R2	12.2	3	11.6	3	9.8	2.2	17.6

3-phase, $U_N = 230$ V (range 200 to 240 V). The power ratings are valid at nominal voltage 230 V (0.25 to 11 kW).

Drive type	Frame size	Nominal ratings		Light-duty use		Heavy-duty use		Max. output current I_{max} (A)
		I_N (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)	
ACS180-04S-02A4-2	R0	2.4	0.37	2.3	0.37	1.8	0.25	3.2
ACS180-04S-03A7-2	R0	3.7	0.55	3.5	0.55	2.4	0.37	4.3
ACS180-04S-04A8-2	R0	4.8	0.75	4.6	0.75	3.7	0.55	6.7
ACS180-04S-06A9-2	R1	6.9	1.1	6.6	1.1	4.5	0.75	8.1
ACS180-04S-07A8-2	R1	7.8	1.5	7.4	1.5	6.6	1.1	11.9
ACS180-04S-09A8-2	R1	9.8	2.2	9.3	2.2	7.4	1.5	13.3
ACS180-04S-15A6-2	R2	15.6	3	14.6	3	10.7	2.2	19.3
ACS180-04S-17A5-2	R2	17.5	4	16.7	4	12.2	3	22
ACS180-04S-25A0-2	R3	25	5.5	24.2	5.5	17.5	4	31.5
ACS180-04S-033A-2	R3	32	7.5	30.8	7.5	25	5.5	45
ACS180-04S-048A-2	R4	48	11	46.2	11	32	7.5	57.6
ACS180-04S-055A-2	R4	55	11	52.8	11	48	11	86.4

x (in type code) = S or N

S = Standard offering with STO and EMC filter

1-phase 200 to 240 V: Class C2

3-phase 200 to 240 V: Class C4 (no built-in EMC filter)

3-phase 380 to 480 V: Class C3

N = Without STO and EMC filter (class C4)

For further information, please see page 17.

Nominal ratings

I_N Rated current available continuously without overload ability at 40 °C.

P_N Typical motor power in no-overload use.

Light-duty use

I_{Ld} Continuous current allowing 110% I_{Ld} for 1 minute every 10 minutes at 40 °C.

P_{Ld} Typical motor power in light-duty use.

Heavy-duty use

I_{Hd} Continuous current allowing 150% I_{Hd} for 1 minute every 10 minutes at 50 °C.

P_{Hd} Typical motor power in heavy-duty use.

Maximum output current

I_{max} Maximum output current. Available for 2 seconds at start, then as long as allowed by drive temperature.

For derating at higher altitudes, temperatures or switching frequencies, see the user's HW manuals, document codes: 3AXD50000467945.

3-phase, $U_N = 400$ V (range 380 to 480 V). The power ratings are valid at nominal voltage 400 V (0.37 to 22 kW).

Drive type	Frame size	Nominal ratings		Light-duty use		Heavy-duty use		Max. output current I_{max} (A)
		I_N (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)	
ACS180-04x-01A8-4	R0	1.8	0.55	1.7	0.55	1.2	0.37	2.2
ACS180-04x-02A6-4	R0	2.6	0.75	2.5	0.75	1.8	0.55	3.2
ACS180-04x-03A3-4	R0	3.3	1.1	3.1	1.1	2.4	0.75	4.3
ACS180-04x-04A0-4	R1	4	1.5	3.8	1.5	3.3	1.1	5.9
ACS180-04x-05A6-4	R1	5.6	2.2	5.3	2.2	4	1.5	7.2
ACS180-04x-07A2-4	R1	7.2	3	6.8	3	5.6	2.2	10.1
ACS180-04x-09A4-4	R1	9.4	4	8.9	4	7.2	3	13
ACS180-04x-12A6-4	R2	12.6	5.5	12	5.5	9.4	4	16.9
ACS180-04x-17A0-4	R2	17	7.5	16.2	7.5	12.6	5.5	22.7
ACS180-04x-25A0-4	R3	25	11	23.8	11	17	7.5	30.6
ACS180-04x-033A-4	R3	32	15	30.5	15	25	11	45
ACS180-04x-038A-4	R4	38	18.5	36	18.5	32	15	57.6
ACS180-04x-045A-4	R4	45	22	42	22	38	18.5	68.4
ACS180-04x-050A-4	R4	50	22	48	22	45	22	81

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3-phase 380 to 480 V: Class C3

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For further information, please see page 17.

Nominal ratings

I_N Rated current available continuously without overload ability at 40 °C.

P_N Typical motor power in no-overload use.

Light-duty use

I_{Ld} Continuous current allowing 110% I_{Ld} for 1 minute every 10 minutes at 40 °C.

P_{Ld} Typical motor power in light-duty use.

Heavy-duty use

I_{Hd} Continuous current allowing 150% I_{Hd} for 1 minute every 10 minutes at 50 °C.

P_{Hd} Typical motor power in heavy-duty use.

Maximum output current

I_{max} Maximum output current. Available for 2 seconds at start, then as long as allowed by drive temperature.

For derating at higher altitudes, temperatures or switching frequencies, see the user's HW manuals, document codes: 3AXD50000467945.