

Ratings, types and voltages

ACS800-X04, drive module, $U_N = 500\text{ V}$

ACS800 - X04 - XXXX - 5 + XXXX

Nominal ratings		No-overload use	Light-overload use		Heavy-duty use		Heat dissipation	Type designation	Frame size
$I_{\text{cont. max}}$ A	I_{max} A	$P_{\text{cont. max}}$ kW	I_N A	P_N kW	I_{hd} A	P_{hd} kW	kW		
$U_N = 500\text{ V}$ (Range 380 to 500 V). The power ratings are valid at nominal voltage 500 V.									
4.9	7	2.2	4.5	2.2	3.4	1.5	0.1	ACS800-104-0004-5	R2i
6.2	8	3	5.6	3	4.2	2.2	0.1	ACS800-104-0005-5	R2i
8.1	11	4	7.7	4	5.6	3	0.2	ACS800-104-0006-5	R2i
11	14	5.5	10	5.5	7.5	4	0.2	ACS800-104-0009-5	R2i
13	18	7.5	12	7.5	9.2	5.5	0.3	ACS800-104-0011-5	R2i
19	24	11	18	11	13	7.5	0.3	ACS800-104-0016-5	R3i
25	32	15	23	15	18	11	0.4	ACS800-104-0020-5	R3i
34	46	18.5	31	18.5	23	15	0.5	ACS800-104-0025-5	R3i
42	62	22	39	22	32	18.5	0.6	ACS800-104-0030-5	R4i
48	72	30	44	30	36	22	0.8	ACS800-104-0040-5	R4i
65	86	37	61	37	50	30	1	ACS800-104-0050-5	R5i
79	112	45	75	45	60	37	1.2	ACS800-104-0060-5	R5i
96	138	55	88	55	69	45	1.4	ACS800-104-0070-5	R5i
115	172	75	110	55	86	55	1.1	ACS800-104-0105-5	R7i
135	202	90	130	90	101	55	1.3	ACS800-104-0125-5	R7i
166	248	110	159	110	124	75	1.7	ACS800-104-0145-5	R7i
208	312	132	200	132	156	90	2	ACS800-104-0175-5	R7i
250	374	160	240	160	187	110	2.2	ACS800-104-0215-5	R7i
315	457	200	302	200	236	132	3.2	ACS800-104-0260-5	R8i
365	530	250	350	250	273	160	4	ACS800-104-0320-5	R8i
455	660	315	437	315	340	200	5.4	ACS800-104-0400-5	R8i
525	762	355	504	355	393	250	5.9	ACS800-104-0460-5	R8i
700	1016	500	672	500	524	355	7.8	ACS800-104-0610-5	R8i
1050	1524	710	1008	710	785	560	12	ACS800-104-0910-5	2xR8i
1372	1991	1000	1317	1000	1026	710	15	ACS800-104-1210-5	2xR8i
2037	2956	1450	1956	1450	1524	1120	22	ACS800-104-1820-5	3xR8i
2688	3901	2000	2580	1850	2011	1400	29	ACS800-104-2430-5	4xR8i
3343	4850	2400	3209	2400	2500	1600	36	ACS800-104-3030-5	5xR8i
3990	5790	2900	3830	2900	2985	2000	43	ACS800-104-3640-5	6xR8i

Dimensions

Frame size	Height mm	Width mm	Depth mm	Weight kg	Noise level dB(A)	Air flow m³/h
R2i	401	165	193 ³⁾	9	62	35
R3i	466	173	232 ³⁾	12	62	69
R4i	525	240	252 ³⁾	15	62	103
R5i	673	265	276 ³⁾	23	65	168
R7i ¹⁾	963	170	408	38	64	800
R8i	1397	245	596	130	72	1280
2xR8i	1397	245 ²⁾	596	260	74	2560
3xR8i	1397	245 ²⁾	596	390	76	3840
4xR8i	1397	245 ²⁾	596	520	76	5120
5xR8i	1397	245 ²⁾	596	650	77	6400
6xR8i	1397	245 ²⁾	596	780	78	7680

¹⁾ Dimensions do not include cooling fan.

²⁾ Single module only.

³⁾ The depth is without control panels and options.

Type	Height mm	Width mm	Depth mm
RDCU control unit *)	282	126	41

*) Delivered with R7i to nxR8i

Nominal ratings	
$I_{\text{cont. max}}$	Rated current available continuously without overloadability at 40 °C.
I_{max}	Maximum output current. Available for 10 s at start, otherwise as long as allowed by drive temperature.
Typical ratings: No-overload use	
$P_{\text{cont. max}}$	Typical motor power in no-overload use.
Light-overload use	
I_N	Continuous current allowing 110% I_N for 1 min/5 min at 40 °C.
P_N	Typical motor power in light-overload use.
Heavy-duty use	
I_{hd}	Continuous current allowing 150% I_{hd} for 1 min/5 min at 40 °C.
P_{hd}	Typical motor power in heavy-duty use.

The current ratings are the same regardless of the supply voltage within one voltage range.

The ratings apply in 40 °C ambient temperature. In lower temperatures the ratings are higher (except I_{max}).

The rated current of the ACS800 must be higher than or equal to the rated motor current to achieve the rated motor power given in the table.