

Ratings, types and voltages

ACS800-X04, drive module, $U_N = 400\text{ V}$

ACS800 - X04 - XXXX - 3 + 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			
$U_{\text{N}} = 400 \text{ V}$ (Range 380 to 415 V). The power ratings are valid at nominal voltage 400 V.									
5.1	6.5	1.5	4.7	1.5	3.4	1.1	0.1	ACS800-104-0003-3	R2i
6.5	8.2	2.2	5.9	2.2	4.3	1.5	0.1	ACS800-104-0004-3	R2i
8.5	10.8	3	7.7	3	5.7	2.2	0.1	ACS800-104-0005-3	R2i
10.9	13.8	4	10.2	4	7.5	3	0.1	ACS800-104-0006-3	R2i
13.9	17.6	5.5	12.7	5.5	9.3	4	0.2	ACS800-104-0009-3	R2i
19	24	7.5	18	7.5	14	5.5	0.3	ACS800-104-0011-3	R3i
25	32	11	24	11	19	7.5	0.3	ACS800-104-0016-3	R3i
34	46	15	31	15	23	11	0.4	ACS800-104-0020-3	R3i
44	62	22	41	18.5	32	15	0.5	ACS800-104-0025-3	R4i
55	72	30	50	22	37	18.5	0.6	ACS800-104-0030-3	R4i
72	86	37	69	30	49	22	0.8	ACS800-104-0040-3	R5i
86	112	45	80	37	60	30	1	ACS800-104-0050-3	R5i
103	138	55	94	45	69	37	1.2	ACS800-104-0060-3	R5i
147	220	75	141	75	110	55	1.4	ACS800-104-0105-3	R7i
178	252	90	171	90	133	55	1.7	ACS800-104-0125-3	R7i
208	312	110	200	110	156	75	1.9	ACS800-104-0145-3	R7i
250	374	132	240	132	187	90	2.1	ACS800-104-0175-3	R7i
292	400	160	280	160	218	110	2.7	ACS800-104-0210-3	R8i
370	506	200	355	200	277	132	3.7	ACS800-104-0260-3	R8i
469	642	250	450	250	351	200	4.9	ACS800-104-0320-3	R8i
565	773	315	542	315	423	220	6.1	ACS800-104-0390-3	R8i
741	1014	400	711	400	554	315	8	ACS800-104-0510-3	R8i
1111	1521	630	1067	630	831	450	12	ACS800-104-0770-3	2xR8i
1452	1988	800	1394	800	1086	630	15	ACS800-104-1030-3	2xR8i
2156	2951	1200	2070	1200	1613	900	23	ACS800-104-1540-3	3xR8i
2845	3894	1600	2731	1600	2128	1120	30	ACS800-104-2050-3	4xR8i
3537	4842	2000	3396	2000	2646	1400	37	ACS800-104-2570-3	5xR8i
4223	5780	2400	4054	2400	3159	1600	44	ACS800-104-3080-3	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.