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ПРОМЫШЛЕННЫЕ ПРИВОДЫ

Техническое описание на модули ACS880-04F, ACS880-04FXT, ACS880-04XT



Single drive modules

ACS880-04/04F and ACS880-04XT/04FXT



—
01
ACS880-04 standard
single drive module

—
02
ACS880-04 flat
(sideways) mounting
single drive
module variant

—
03
ACS880-04XT high
power single drive
unit with parallel
connected modules

—
04
ACS880-04F flange
mounted single
drive module

—
05
ACS880-04FXT
flange mounted high
power single drive
unit with parallel
connected modules

Flexibility and ease of cabinet assembly

The modules have all the essential features built-in including a choke for harmonic filtering as standard, and options such as a brake unit, EMC filter and communication protocol adapter, functional safety and I/O extension modules. The all built-in design combined with IP20 protection significantly simplifies engineering.

The drive's compact size, flexible cabling directions and versatile mounting possibilities from narrow bookshelf to flat mounting and horizontal mounting make it an ideal fit for almost any enclosure. The control unit with I/O and communication connections can be mounted outside the power module or integrated into it.

The flange mounting variant (-04F/04FXT) with IP55 heat sink makes the drive suitable for harsh environments. High power units with parallel connected drive modules extends the power range with -04XT up to 1200 kW and with -04FXT up to 1200 kW.

Single drive modules,

ACS880-04/04F/04XT/04FXT

- Power ratings: 200 to 1200 kW
- Enclosure classes: -04: IP20, -04F: IP20 (IP55 for heat sink side), -04XT: IP00, IP20 with optional shrouds, -04FXT: IP00, IP20 with optional shrouds (IP55 for heat sink side).

Main options:

- C2 and C3 EMC filters, see page 90
- Flat (sideways) mounting (-04/04XT)
- Various cabling related options, see page 112
- Brake unit and resistor, see page 100
- Marine type approvals (-04/04XT)
- I/O extension modules, see page 81
- Communication protocol adapters, see page 81
- Application specific software, see page 18
- Speed feedback interfaces, see page 83
- Remote monitoring options, see page 84
- Functional safety modules, see page 88
- Du/dt filters, see page 108
- Sine filters, see page 94

The drives have an extensive selection of built-in features and options. See page 118.

Highlights

- IP20 enclosure class
- Compact package with all the essential features built-in
- Wheels for easy maneuvering (-04/04XT)
- Flexible mounting and cabling directions
- Optimal drive layout
- Possibility for flange (push through) mounting (-04F/04FXT)
- Tools and documents to support engineering (e.g. installation videos, EPLAN macros, accessories selection tool)
- Possibility for 6- r 12-pulse configurations (-04XT)
6-, 12-, 18- or 24-pulse configurations (-04FXT)

Ratings, types and voltages

ACS880-04, -04F, -04XT, -04FXT

$U_N = 400$ V (range 380 to 415 V). The power ratings are valid at nominal voltage 400 V (200 to 1800 kW).

Drive type	Frame size	Nominal ratings				Light overload use		Heavy-duty use		Noise level (dB(A))	Heat dissipation *) (W)	Air flow (m ³ /h)
		I_N (A)	I_{max} (A)	I_{max_start} (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)			
ACS880-04, 6-pulse												
ACS880-04-505A-3	R10	505	560	671	250	485	250	361	200	72	6493	1200
ACS880-04-585A-3	R10	585	730	828	315	575	315	429	250	72	6827	1200
ACS880-04-650A-3	R10	650	730	954	355	634	355	477	250	72	8067	1200
ACS880-04-725A-3	R11	725	1020	1100	400	715	400	566	315	72	8127	1200
ACS880-04-820A-3	R11	820	1020	1100	450	810	450	625	355	72	9740	1200
ACS880-04-880A-3	R11	880	1100	1100	500	865	500	725 ¹⁾	400	71	10986	1420
ACS880-04F												
ACS880-04F-504A-3	R11	504	560	671	250	485	250	361	200	75	4693	1520
ACS880-04F-584A-3	R11	584	730	828	315	575	315	429	250	75	5827	1520
ACS880-04F-649A-3	R11	649	730	954	355	634	355	477	250	75	6793	1520
ACS880-04F-725A-3	R11	725	1020	1100	400	715	400	566	315	75	7989	1520
ACS880-04F-820A-3	R11	820	1020	1100	450	810	450	625	355	75	9649	1520
ACS880-04F-880A-3	R11	880	1100	1100	500	865	500	725 ¹⁾	400	75	10782	1520
ACS880-04XT, 6- or 12-pulse												
ACS880-04XT-1010A-3	2xR10	1010	1270	1441	560	997	560	746	400	75	9926	2400
ACS880-04XT-1190A-3	2xR10	1190	1343	1755	630	1167	630	878	500	75	14049	2400
ACS880-04XT-1330A-3	2xR11	1330	1886	2024	710	1316	710	1041	560	75	15160	2400
ACS880-04XT-1610A-3	2xR11	1610	2024	2024	900	1570	900	1334 ¹⁾	710	74	18298	2840
ACS880-04FXT, 6-, 12-, 18- or 24-pulse												
ACS880-04FXT-1008A-3	2xR11	1008	1270	1441	560	997	560	746	400	78	9990	3040
ACS880-04FXT-1188A-3	2xR11	1188	1343	1755	630	1167	630	878	500	78	14098	3040
ACS880-04FXT-1330A-3	2xR11	1330	1886	2024	710	1316	710	1041	560	78	15222	3040
ACS880-04FXT-1610A-3	2xR11	1610	2024	2024	900	1570	900	1334 ¹⁾	710	78	18336	3040

*) Heat dissipation value is a reference for cabinet thermal design. According to Ecodesign regulations.

¹⁾ = Continuous rms output current allowing 40% overload for 1 minute every 5 minutes

Nominal ratings

I_N	Rated current available continuously without overloadability at 40 °C.
P_N	Typical motor power in no-overload use.

Maximum output current

I_{max}	Maximum output current. Available for 10 seconds at start, then as long as allowed by drive temperature.
I_{max_start}	Maximum output current at start. When enabled, available for 2 seconds only at start every 7 seconds.

Light-overload use

I_{Ld}	Continuous current allowing 110% I_{Ld} for 1 minute every 5 minutes at 40 °C.
P_{Ld}	Typical motor power in light-overload use.

Heavy-duty use

I_{Hd}	Continuous current allowing 150% I_{Hd} for 1 minute every 5 minutes at 40 °C.
P_{Hd}	Typical motor power in heavy-duty use.

The ratings apply at 40 °C ambient temperature. At higher temperatures (up to 50 °C⁴⁾ or up to 55 °C⁵⁾ the derating is 1%/1 °C.

⁴⁾ ACS880-04 high power single drive package.

⁵⁾ ACS880-04 single drive module.

$U_N = 500$ V (range 380 to 500 V). The power ratings are valid at nominal voltage 500 V (200 to 2000 kW).

Drive type	Frame size	Nominal ratings				Light overload use		Heavy-duty use		Noise level (dB(A))	Heat dissipation ^{*)} (W)	Air flow (m ³ /h)
		I_N (A)	I_{max} (A)	I_{max_start} (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)			
ACS880-04, 6-pulse												
ACS880-04-460A-5	R10	460	560	671	315	450	315	330	200	72	5795	1200
ACS880-04-503A-5	R10	503	560	671	355	483	315	361	250	72	6661	1200
ACS880-04-583A-5	R10	583	730	828	400	573	400	414	250	72	6886	1200
ACS880-04-635A-5	R10	635	730	954	450	623	450	477	315	72	7923	1200
ACS880-04-715A-5	R11	715	850	1100	500	705	500	566	400	72	8126	1200
ACS880-04-820A-5	R11	820	1020	1100	560	807	560	625	450	71	9995	1420
ACS880-04-880A-5	R11	880	1100	1100	630	857	560	697 ²⁾	500	71	11206	1420
ACS880-04F												
ACS880-04F-459A-5	R11	459	560	671	315	450	315	330	200	75	4311	1520
ACS880-04F-502A-5	R11	502	560	671	355	483	315	361	250	75	4774	1520
ACS880-04F-582A-5	R11	582	730	828	400	573	400	414	250	75	5857	1520
ACS880-04F-634A-5	R11	634	730	954	450	623	450	477	315	75	6579	1520
ACS880-04F-715A-5	R11	715	850	1100	500	705	500	566	400	75	7965	1520
ACS880-04F-820A-5	R11	820	1020	1100	560	807	560	625	450	75	9981	1520
ACS880-04F-880A-5	R11	880	1100	1100	630	857	560	697 ²⁾	500	75	10956	1520
ACS880-04XT, 6- or 12-pulse												
ACS880-04XT-1010A-5	2xR10	1010	1270	1441	710	997	710	720	500	75	9926	2400
ACS880-04XT-1160A-5	2xR10	1160	1343	1755	800	1146	800	878	630	75	14029	2400
ACS880-04XT-1310A-5	2xR11	1310	1564	2024	900	1297	900	1041	710	75	15160	2400
ACS880-04XT-1610A-5	2xR11	1610	2024	2024	1000	1570	1000	1282 ²⁾	900	74	18336	2840
ACS880-04FXT, 6- or 12-pulse												
ACS880-04FXT-1008A-5	2xR11	1008	1270	1441	710	997	710	720	500	78	9990	3040
ACS880-04FXT-1158A-5	2xR11	1158	1343	1755	800	1146	800	878	630	78	14098	3040
ACS880-04FXT-1310A-5	2xR11	1310	1564	2024	900	1297	900	1041	710	78	15222	3040
ACS880-04FXT-1610A-5	2xR11	1610	2024	2024	1000	1570	1000	1282 ²⁾	900	78	19201	3040

^{*)} Heat dissipation value is a reference for cabinet thermal design. According to Ecodesign regulations.

²⁾ = Continuous rms output current allowing 45% overload for 1 minute every 5 minutes

$U_N = 690$ V (range 525 to 690 V). The power ratings are valid at nominal voltage 690 V (250 to 2400 kW).

Drive type	Frame size	Nominal ratings				Light overload use		Heavy-duty use		Noise level (dB(A))	Heat dissipation ^{*)} (W)	Air flow (m ³ /h)
		I_N (A)	I_{max} (A)	I_{max_start} (A)	P_N (kW)	I_{Ld} (A)	P_{Ld} (kW)	I_{Hd} (A)	P_{Hd} (kW)			
ACS880-04, 6-pulse												
ACS880-04-330A-7	R10	330	480	510	315	320	315	255	250	72	4863	1200
ACS880-04-370A-7	R10	370	520	650	355	360	355	325	315	72	5785	1200
ACS880-04-430A-7	R10	430	540	720	400	420	450	360 ³⁾	350	72	7166	1200
ACS880-04-470A-7	R11	470	655	830	450	455	450	415	400	72	6356	1200
ACS880-04-522A-7	R11	522	685	910	500	505	500	455	450	72	7375	1200
ACS880-04-590A-7	R11	590	800	1010	560	571	560	505	500	71	8851	1200
ACS880-04-650A-7	R11	650	825	1100	630	630	630	571 ³⁾	560	71	8427	1420
ACS880-04-721A-7	R11	721	825	1100	710	705	630	571 ³⁾	560	71	9767	1420
ACS880-04F												
ACS880-04F-329A-7	R11	329	480	510	315	320	315	255	250	75	3266	1520
ACS880-04F-369A-7	R11	369	520	650	355	360	355	325	315	75	3725	1520
ACS880-04F-429A-7	R11	429	520	720	400	420	400	360 ³⁾	355	75	4539	1520
ACS880-04F-470A-7	R11	470	655	830	450	455	450	415	400	75	5198	1520
ACS880-04F-522A-7	R11	522	655	910	500	505	500	455	450	75	5984	1520
ACS880-04F-590A-7	R11	590	800	1010	560	571	560	505	500	75	7115	1520
ACS880-04F-650A-7	R11	650	820	1100	630	630	630	571 ³⁾	560	75	8289	1520
ACS880-04F-721A-7	R11	721	820	1100	710	705	630	571 ³⁾	560	75	9628	1520
ACS880-04XT, 6- or 12-pulse												
ACS880-04XT-0810A-7	2xR10	810	1017	1356	800	791	710	678 ³⁾	630	75	12815	2400
ACS880-04XT-0960A-7	2xR11	960	1260	1674	900	929	900	837	800	75	11915	2400
ACS880-04XT-1080A-7	2xR11	1080	1472	1858	1000	1051	1000	929	900	75	14653	2400
ACS880-04XT-1320A-7	2xR11	1320	1509	2024	1200	1297	1200	1051 ³⁾	1000	74	18469	2840
ACS880-04FXT, 6- or 12-pulse												
ACS880-04FXT-0808A-7	2xR11	808	1017	1356	800	791	710	678 ³⁾	630	78	11691	3040
ACS880-04FXT-0960A-7	2xR11	960	1260	1674	900	929	900	837	800	78	15222	3040
ACS880-04FXT-1080A-7	2xR11	1080	1472	1858	1000	1051	1000	929	900	78	17125	3040
ACS880-04FXT-1320A-7	2xR11	1320	1509	2024	1200	1297	1200	1051 ³⁾	1000	78	19201	3040

^{*)} Heat dissipation value is a reference for cabinet thermal design. According to Ecodesign regulations.

³⁾ = Continuous rms output current allowing 44% overload for 1 minute every 5 minutes

Nominal ratings

I_N	Rated current available continuously without overloadability at 40 °C.
P_N	Typical motor power in no-overload use.

Maximum output current

I_{max}	Maximum output current. Available for 10 seconds at start, then as long as allowed by drive temperature.
I_{max_start}	Maximum output current at start. When enabled, available for 2 seconds only at start every 7 seconds.

Light-overload use

I_{Ld}	Continuous current allowing 110% I_{Ld} for 1 minute every 5 minutes at 40 °C.
P_{Ld}	Typical motor power in light-overload use.

Heavy-duty use

I_{Hd}	Continuous current allowing 150% I_{Hd} for 1 minute every 5 minutes at 40 °C.
P_{Hd}	Typical motor power in heavy-duty use.

The ratings apply at 40 °C ambient temperature. At higher temperatures (up to 50 °C⁴⁾ or up to 55 °C⁵⁾ the derating is 1%/1 °C.

⁴⁾ ACS880-04 high power single drive package.

⁵⁾ ACS880-04 single drive module.

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