

Inverter Drives 8400 StateLine



Technical data

Rated data 230 V

► Unless otherwise specified, the data refers to the default setting.

Data in left column per device

Operation with rated data: rated output current $I_{N,out}$ at a mains voltage 230 V, switching frequency 8 kHz variable and an ambient temperature 45 °C (default setting).

Output currents I_{out} apply to:

Ambient temperature 45 °C operating with constant switching frequency 2 kHz or 4 kHz.


Ambient temperature 40 °C operating with constant switching frequency 8 kHz or 16 kHz.

Data in right column per device

Operation with increased power: rated output current $I_{N,out}$ at mains voltage 230 V, switching frequency 4 kHz and max. ambient temperature 40 °C.

Output currents apply to:

Ambient temperature 40 °C operating with switching frequency 2 kHz or 4 kHz.

							
Typical motor power							
4-pole asynchronous motor	P	[kW]	1.10	1.50	1.50	2.20 ¹⁾	2.20
Product key			E84AVSC□1122□□0 E84AVSC□1122□□S		E84AVSC□1522□□0 E84AVSC□1522□□S		E84AVSC□2222□□0 E84AVSC□2222□□S
Mains voltage range			1/N/PE AC 180 V-0 % ... 264 V+0 %, 45 Hz-0 % ... 65 Hz+0 %				
	U_{AC}	[V]					
Rated mains current							
With mains choke	$I_{N, AC}$	[A]	9.9	11.9	11.4	13.7	16.4
Without mains choke	$I_{N, AC}$	[A]	12.0	14.4	13.7		21.8
Rated output current							
	$I_{N, out}$	[A]	5.5	6.8	7.0	8.4	9.5
Output current							
2 kHz	I_{out}	[A]	5.5	6.8	7.0	8.4	9.5
4 kHz	I_{out}	[A]	5.5	6.8	7.0	8.4	9.5
8 kHz	I_{out}	[A]	5.5		7.0		9.5
16 kHz	I_{out}	[A]	3.7		4.7		6.3

Data for 60 s overload

Max. output current					
	$I_{max, out}$	[A]	8.3	10.5	14.3
Overload time					
	t_{ol}	[s]		60.0	
Recovery time					
	t_{re}	[s]		120.0	

Data for 3 s overload

Max. short-time output current					
	$I_{max, out}$	[A]	11.0	14.0	19.0
Overload time					
	t_{ol}	[s]		3.0	
Recovery time					
	t_{re}	[s]		12.0	

¹⁾ Operation only permitted with mains choke

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Technical data



Rated data 230 V

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Typical motor power							
4-pole asynchronous motor	P	[kW]	1.10	1.50	1.50	2.20	2.20
Product key			E84AVSC□1122□□0 E84AVSC□1122□□S		E84AVSC□1522□□0 E84AVSC□1522□□S		E84AVSC□2222□□0 E84AVSC□2222□□S
Power loss							
	P _V	[kW]	0.095		0.110		0.140
Max. cable length ¹⁾							
Shielded motor cable	I _{max}	[m]	50				

Brake chopper rated data

Rated power, Brake chopper					
	P _N	[kW]	3.3	3.3	3.3
Max. output power, Brake chopper					
	P _{max, 1}	[kW]	4.4	4.4	4.4
Min. brake resistance					
	R _{min}	[Ω]	33.0	33.0	33.0

4.7

Dimensions and weights

Standard installation design

Dimensions					
Height	h	[mm]	270	270	270
Width	b	[mm]	70	70	70
Depth ²⁾	t	[mm]	199	199	199
Mass					
	m	[kg]	2.1	2.1	2.1

¹⁾ Technically possible cable lengths, irrespective of EMC requirements

²⁾ With safety engineering plus 20 mm