		03	11	16	21	03	11	16	21
Converters for single-phase cor	nection	and single-ar	iadrant opera	tion (B2HK)					
Rated supply voltage 3)	V		⊦10%/-10%)	tion (BZIII)		2-ph. 400	(+10%/-10%)		
Rated frequency		Automatic	adaptation 45 t	to 65 Hz					
Rated DC voltage	V	180				315			
Rated direct current	А	5	12	22	40	5	12	22	40
Rated output	kW	0.9	2.2	4.0	7.2	1.6	3.8	6.9	12.6
Power loss at rated direct current (approx.)	W	30	50	80	135	30	50	80	135
Rated supply voltage, field	V	max. 2-ph.	400 V (+10%)	at U2-V2					
Rated DC voltage, field	V	340							
Rated current, field	А	1.5	1.5	5.0	5.0	1.5	1.5	5.0	5.0
Ambient in-service temperature ⁵)	° C	0 to 45° at r	ated DC						
Temperature during storage and transportation	°C	-30 to +85							
Site altitude above sea level ⁶)	m	≤1 000 at r	ated DC						
Control stability 4)		0.1% of rat	ed speed						
Humidity rating DIN 40 040, SN 26	F								
Degree of protection DIN 40 050,	IP 00								
Dimensions		See dimen	sion drawings						
Weight (approx.) 1)	kg	2.2	2.2	2.8	4.4	2.2	2.2	2.8	4.4
Weight (approx.) 2)	kg	1.25	1.25	1.6	3.6	1.25	1.25	1.6	3.6
Mounting width (basic grid dimens	sion) 2)	22	22	36	50	22	22	36	50

6RA22..-8DD21-.

- 1) For converters with enclosure: 6RA22..-8DD21-1
- 2) For draw-out converters: 6RA22..-8DD21-0
- 3) The rated output voltage for the armature and field circuits is reached at 5% undervoltage in the line-side supply. If the rated input voltage value is present, the output voltage value will be 5% higher. If the undervoltage is more than 5%, the output voltage must be reduced linearly.
- 4) Conditions:

Order No.

The control stability is referred to the rated motor speed and applies to SIMOREG K units at operating temperature.

The following conditions apply:

· Constant setpoint

- Temperature fluctuations of ±10 ° K
- Line voltage fluctuations of +10% -5% of rated supply voltage
- Load fluctuations of up to 100% of maximum torque
- Temperature coefficient of temperature-compensated tacho-generator 0.15% per 10 ° K

5) Load values as a function of coolant temperature

Ambient or coolant temperature	Derating in units with natural air cooling	
+35° C		
+40° C		
+45° C	0%	
+50° C	-6%	
+55° C	-11%	
+60° C	-18%	

6) Load values as a function of site altitude

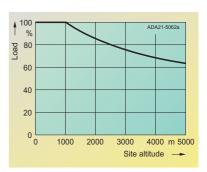


Fig. 1/6

6RA22..-8DD21-.

		03	11	16	21	03	11	16	21
Converters for single-phase cor	nnection a	and four-qua	drant operati	ion (B2)A(B2)C					
Rated supply voltage 3)	V	2-ph. 230	+10%/-10%)			2-ph. 400	(+10%/-10%)		
Rated frequency		Automatic	adaptation 45	to 65 Hz					
Rated DC voltage	V	150				260			
Rated direct current	А	5	12	22	40	5	12	22	40
Rated output	kW	0.75	1.8	3.3	6	1.3	3.1	5.7	10.4
Power loss at rated direct current (approx.)	W	35	60	85	140	35	60	85	140
Current input, terminals U2-V2	mA	80							
Ambient in-service temperature ⁵)	°C	0 to 45							
Temperature during storage and transportation	°C	-30 to +85							
Site altitude above sea level 6)	m	≤1 000 at	rated DC						
Control stability 4)		0.1% of ra	ted speed						
Humidity rating DIN 40 040, SN 26 556 F									
Degree of protection DIN 40 050, IEC 144 IP 00									
Dimensions		See dimer	nsion drawings						
Weight (approx.) 1)	kg	2.8	2.8	3.1	5.4	2.8	2.8	3.1	5.4
Weight (approx.) ²)	kg	1.8	1.8	2.1	4.1	1.8	1.8	2.1	4.1
Number of required slots ²)		22	22	52	66	22	22	52	66

6RA22..-8DK27-..

6RA22..-8DK27-..

- 1) For converters with enclosure: 6RA22..-8DK27-1
- 2) For draw-out converters: 6RA22..-8DK27-0
- 3) The rated output voltage for the armature and field circuits is reached at 5% undervoltage in the line-side supply. If the rated input voltage value is present, the output voltage value will be 5% higher. If the undervoltage is more than 5%, the output voltage must be reduced linearly.
- 4) Conditions:

Order No.

The control stability is referred to the rated motor speed and applies to SIMOREG K units at operating temperature.

The following conditions apply:

- Temperature fluctuations of ±10 ° K
- Line voltage fluctuations of +10% -5% of rated supply voltage
- Load fluctuations of up to 100% of maximum torque
- Temperature coefficient of temperature-compensated tacho-generator 0.15% per 10 ° K
- · Constant setpoint

5) Load values as a function of coolant temperature

Ambient or coolant temperature	Derating in units with natural air cooling	
+35° C		
+40° C		
+45° C	0%	
+50° C	-6%	
+55° C	-11%	
+60° C	-18%	

6) Load values as a function of site altitude

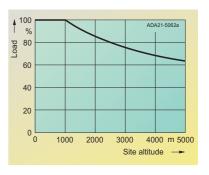


Fig. 1/7

Order No.		011/122	000.							
		20	23	26	30	32	33	76	80	83
Converters for three-phase con	nection a	nd single-q	uadrant ope	eration (B6C)						
Rated supply voltage Power ¹)	V	3-ph. 400) (+10%/-15%	%)						
Rated supply voltage Electronics power supply	V	3-ph. 400) (+35%/-20%	%), 40 mA						
Rated supply voltage Fan	V							2-ph. 23 (+10%/ -10%) 0.12 A Air flow 160 m ³ /t	rate	2-ph. 230 (+10%/ -10%) 0.24 A 320 m ³ /h
Rated supply voltage, field	V	2-ph. max	k. 400 (+35%)						
Rated frequency	Hz	Automati	c adaptation	45 to 65						
Rated DC voltage	V	485								
Rated direct current	А	35	50	70	110	130	160	240	350	500
Rated output	kW	17	24	34	53	63	78	116	170	242
Power loss at rated direct current (approx.)	W	130	170	230	350	410	500	760	1 100	1 580
Rated DC voltage, field	V	340								
Rated direct current, field	А	8	8	8	8	8	8	15	15	15
Ambient in-service temperature ³)	°C	0 to 45 at rated DC, natural air cooling							t rated DC, ir cooling	
Temperature during storage and transportation	°C	-30 to +85	5							
Site altitude above sea level 4)	m	≤1 000 at	t rated DC							
Control stability 2)		$\Delta n = 0.1^{\circ}$	% of rated sp	eed						
Humidity rating DIN 40 040, SN 26	5556	F								
Degree of protection DIN 40 050,	IEC 144	IP 00								
Dimensions		See dime	nsion drawin	gs						
Weight (approx.)	kg	4.4	4.4	6.5	10.3	10.8	12.4	22.2	24	30

6RA22..-8DS31

- The rated output voltage for the armature and field circuits is reached at 5% undervoltage in the line-side supply. If the rated input voltage value is present, the output voltage value will be 5% higher. If the undervoltage is more than 5%, the output voltage must be reduced linearly.

Order No.

2) Conditions: The control stability is referred to the rated motor speed and applies to SIMOREG K units at operating temperature.

The following conditions apply:

- Temperature fluctuations of ±10 ° K
- Line voltage fluctuations of +10% -5% of rated supply voltage
- Load fluctuations of up to 100% of maximum torque
- Temperature coefficient of temperature-compensated tacho-generator 0.15% per 10 ° K
- · Constant setpoint

3) Load values as a function of coolant temperature

Ambient or coolant temperature	Derating in units with natural air cooling	Derating in units with forced – air cooling
+35° C		0%
+40° C		-6%
+45° C	0%	-12%
+50° C	-6%	-17%
+55° C	-11%	
+60° C	-18%	

4) Load values as a function of site altitude

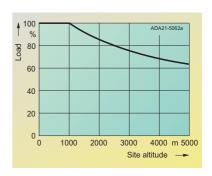


Fig. 1/8

		20	23	26	30	32	33	76	80	83
Converters for three-phase con	nection a	nd four-qu	adrant opera	tion (B6)A(B	6)C)					
Rated supply voltage Power 1)	V	3-ph. 40	- 0 (+15%/-10%	6)						
Rated supply voltage Electronics power supply	V	3-ph. 40	0 (+35%/-20%	%), 40 mA						
Rated supply voltage Fan	V							2-ph. 230 0.24 A Air flow 1 320 m ³ /h)
Rated supply voltage, field	V	2-ph. ma	ax. 400 (+35%)						
Rated frequency	Hz	Automat	ic adaptation 4	15 to 65						
Rated DC voltage	V	420								
Rated direct current	А	35	50	70	110	130	160	240	350	500
Rated output	kW	14.7	21	29	46	55	67	100	147	210
Power loss at rated direct current (approx.)	W	130	170	230	350	410	500	780	1 130	1 580
Rated DC voltage, field	V	340								
Rated direct current, field	Α	8	8	8	8	8	8	15	15	15
Ambient in-service temperature ³)	°C	0 to 45 at rated DC, natural air cooling						0 to 35 a forced-a	rated DC, r cooling	
Temperature during storage and transportation	°C	-30 to +8	5							
Site altitude above sea level 4)	m	≤1 000 a	it rated DC							
Control stability ²)		$\Delta n = 0.1$	% of rated sp	eed						
Humidity rating DIN 40 040, SN 26	556	F								
Degree of protection DIN 40 050,	IEC 144	IP 00								
Dimensions		See dime	ension drawin	gs						
Weight (approx.)	kg	5.4	5.4	7.3	15.4	15.9	17.5	22.2	24	30

6RA22..-8DV71

- 1) The rated output voltage for the armature and field circuits is reached at 5% undervoltage in the line-side supply. If the rated input voltage value is present, the output voltage value will be 5% higher. If the undervoltage is more than 5%, the output voltage must be reduced linearly.
- 2) Conditions:

Order No.

The control stability is referred to the rated motor speed and applies to SIMOREG K units at operating temperature.

The following conditions apply:

- ullet Temperature fluctuations of $\pm 10\,^{\circ}$ K
- Line voltage fluctuations of +10% -5% of rated supply voltage
- Load fluctuations of up to 100% of maximum torque
- Temperature coefficient of temperaturecompensated tacho-generator 0.15‰ per 10 ° K
- Constant setpoint

3) Load values as a function of coolant temperature

+35° C 0%	Ambient or coolant emperature	Derating in units with natural air cooling	Derating in units with forced – air cooling
	+35° C		0%
+40° C -6%	+40° C		-6%
+45° C 0% -12%	+45° C	0%	-12%
+50° C -6% (-17%)	+50° C	-6%	(-17%)
+55° C -11%	+55° C	-11%	
+60° C -18%	+60° C	-18%	

4) Load values as a function of site altitude

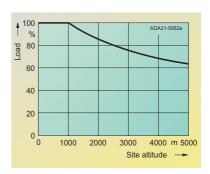


Fig. 1/9