

2.3 Technical data

Type of machine	DASAA 5023-4UFA
	Three-phase asynchronous generator with slip-ring-type rotor
Tolerances	DIN EN 60034-1 / IEC 34-1
Measuring values	see Inspection Certificate
Nominal rating	1, 545 kW
Nominal apparent power	1, 717 kVA
Operating class	S 1
Nominal voltage	690 V $\pm$ 10%
Nominal current	1,256 A
Nominal frequency	50Hz
Nominal speed	1,800 rpm
Speed range	1,000 to 2,000 rpm $n_{\max} = 2,000$ rpm
Sense of rotation	right hand
Construction	IM B3
Protection machine / terminals	IP 54 / IP 54
Power factor $\cos \varphi$	0,9 over-excited
Efficiency	96.0 % at $\cos \varphi$ 0.9 over-excited
Rotor standstill voltage	1,872 V
Rotor current I_2	547 A at $\cos \varphi$ 0.9 over-excited
Stall torque	1.6 x M_N
Inertia moment	69 kgm ²
Sound pressure level	98 dB
admissible vibration immission:	
• 2 to 5 Hz Vibration displacement $s \leq 0.2$ mm • 5 to 50 Hz Vibration speed $v_{\text{rms}} \leq 4.5$ mm/s • > 50 Hz Vibration acceleration $a \leq 2$ m/s²	
Thermal class	F
Type of cooling	air-air heat exchanger

Standstill heating	750 W; 690 V AC
Ambient temperature	–30°C to +50°C
Total weight	6 300 kg

2.4 Related drawings

- Dimension drawing AB.21068.00(3)
- Dimension drawing cable connection stator FR.14628.00(3)
- Dimension drawing cable connection rotor FR.14624.00(3)
- Connection diagram AN.13673.00(4) Sheet 1-2
- Sectional view AB.21137.00(2)

