



STANDARDS

Rating and performance	IEC 60034-2
Efficiency class	IEC 60034-30
Methods for determining losses and efficiency	IEC 60034-2
Classification of degrees of protection (IP code)	IEC 60034-2
Methods of cooling (IC code)	IEC 60034-6
Classification of type of construction and mounting arrangement (IM code)	IEC 60034-7
Terminal markings and direction of rotation	IEC 60034-8
Noise limits	IEC 60034-2
Starting performance of rotating electrical machines	IEC 60034-12
Mechanical vibration	IEC 60034-2
Standard voltage	IEC 60038
Electromagnetic compatibility	2004/108/CE
Machinery directive	2006/42/CE
Low voltage directive	2006/95/CE
Establishing a framework for the settings of ecodesign requirements for energy-related products	2009/125/CE

RATING – NOMINALS

Motor code	IE2D20803A1100	Voltage (V)	400 V
Serial no.	PROTOTYPE	Rated current (A)	2.4
Motor type	D20003A-IE2	Power factor (cos φ)	0.83
Rated output (kW)	1,1	Efficiency (η %)	82,3
Frame	80	Insulation class	F
Poles	2	Phase	3
Frequency (Hz)	50	Rating duty	S1
Rated speed (min ⁻¹)	2870	Motor start	

CHARACTERISTICS

Full load torque (Nm)	3,64	Noise level (Lpa) (dBA)	72
Break down torque (p.u)	2,7	Vibration grades	G 1,8
Loked rotor torque (p.u)	3,1	Thermal protections	----
Starting current (p.u)	6.8	Anticondensation heater	----
No-load current (A)	1,5	Special winding treatment	In a vacuum
Phase resistance T 20 ° C(Ω)	5,11	Bearing drive end	6204-ZZ
Temperature rise	F	Bearing no drive end	6204-ZZ
Protection degree	IP55	Grease	NSK-ENS
Seal ring	V-RING NBR	Finishing paint	BLU RAL 5010
Moment of inertia J(kgxm ²)	0,00120	Bolts and screws – Steel	Zincked
Weights (Kg)	11	Gasket	Gum
Mountings and positions	IM3600 (B5)	Frame material	Aluminium
Rotation direction drive end	R	Shields material	Aluminium

PERFORMANCES (V400 Hz 50)

% of Rated Load	25%	50%	75%	100%	125%	150%
Rated output (kW)	0,27	0,55	0,82	1,1	1,37	1,65
Full load torque (Nm)	0,91	1,82	2,73	3,64	4,55	5,46
Power factor (Cos φ)	0,39	0,58	0,69	0,83	0,82	0,85
Efficiency (%)	61,93	75,25	80,93	82,3	80	77,6
Speed (min ⁻¹)	2970	2947	2920	2870	2858	2817
Current (A)	1,6	1,8	2,2	2.4	3	3,5

NOTES: Disegno/drawing/: STD

IE2