



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	IE201053a1100	Voltage (V)	400 Δ
Serial no.	PROTOTYPE	Rated current (A)	9.4
Motor type	IE201003a-000	Power factor (Cos φ)	0.71
Rated output (kW)	4	Efficiency (η %)	86.05
Frame	112	Insulation class	F
Poles	2	Phase	3
Frequency (Hz)	50	Rating duty	S1
Rated speed (min^{-1})	2940	Motor start	

CHARACTERISTICS

Full load torque (Nm)	12,97	Noise level (Lpa) (dBA)	---
Break down torque (p.u)	2,2	Vibration grades	G 1,8
Loked rotor torque (p.u)	2,2	Thermal protections	ptc130
Starting current (p.u)	7	Anticondensation heater	----
No-load current (A)	6,4	Special winding treatment	In a vacuum
Phase resistance T 20 ° C (Ω)	0,69	Bearing drive end	6207zz
Temperature rise	F	Bearing no drive end	627zz
Protection degree	IP55	Grease	NSK-ENS
Seal ring		Finishing paint	Blue RAL 5010
Moment of inertia J(kgxm ²)	0,0093	Bolts and screws – Steel	Zincked
Weights (Kg)	30	Gasket	Gum
Mountings and positions	IM2001(B35)	Frame material	Aluminium
Rotation direction drive end	R	Shields material	Caston iron

PERFORMANCES (V400 Hz 50)

% of Rated Load	25%	50%	75%	100%	125%	150%
Rated output (kW)	1	2	3	4	5	6
Full load torque (Nm)	3,24	6,48	5,72	12,97	16,21	19,45
Power factor (Cos φ)	0,33	0,51	0,64	0,71	0,76	0,79
Efficiency (%)	64,71	77,93	82,57	86,05	86,44	86,47
Speed (min^{-1})	2984	2971	2957	2940	2926	2911
Current (A)	6,6	7,24	8,22	9,40	11	12,6

NOTES:

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