3F3A-100LA-2B14

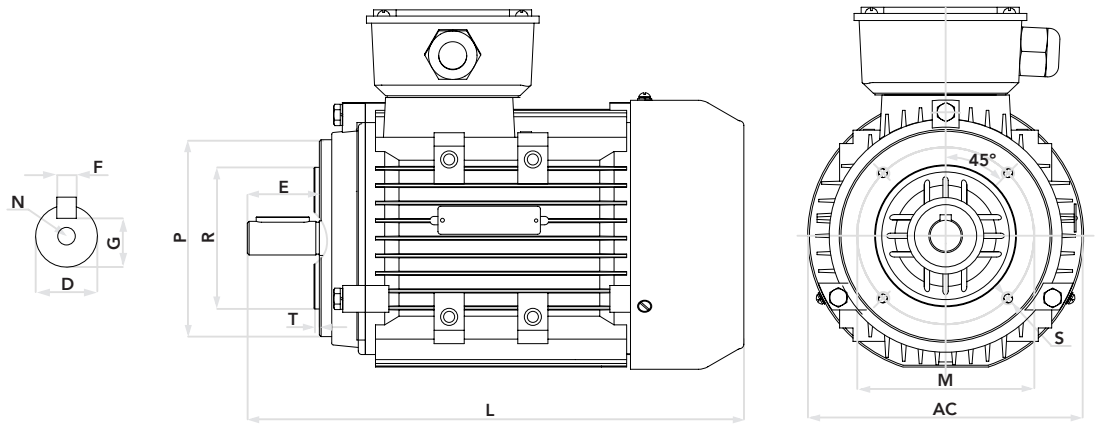
MECHANICAL DATA	
Noise at 50Hz	82 dB(A)
Moment of inertia	0.00432 kgm²
Bearing DE	6206ZZ
Bearing NDE	6206ZZ
Bearing lifetime	40000 h
Direction of rotation	bidirectional
Frame material	aluminum
Colour	RAL 7030
Cooling method	IC411
Ambient temperature	-20 / +40 °C
Altitude above sealevel	1000 m
Output	3kW
Speed	2915 rpm
Ins. Class	F
Efficiency	87,1% IE3
Voltage	400V
Connection	Y
F.L. Current	5.71A
Power factor	0,87
Duty	S1
Frequency	50 Hz
IP	55
Weight	26 kg

SPECIAL DESIGN

ELECTRICAL TEST DATA	
Ambient temperature	25,2 °C
Resistance of winding	2,386 Ω
Three phase current unbalanced	1,79 %
No load amps	1,69 A
No load input	128,35 W
Core loss (Pfe)	71,28 W
Windage friction loss (Pfw)	45,93 W
Stator winding loss (Pcu1)	131,3 W
Rotor winding loss (Pcu2)	100 W
Stray load loss (Ps)	40,51 W
Locked rotor current	51,16 A
Locked rotor current / Full load current	8,96
Full load torque	9,8 Nm
Locked rotor input power at full load	21973,3 W
Locked rotor torque	31,75 Nm
Locked rotor torque / Full load torque	3,24
Full load input	3389 W
Full load current	5,378 A
Efficiency at 50% load	85,27 %
Efficiency at 75% load	89,46 %
Efficiency at 100% load	88,52 %
Power factor at full load	0,9096
Full load slip	3,139 %
Full load speed	2906 r/min
Stator winding temperature rise	43,12 K
Stator phase resistance at Ambient temperature of 95 °C	3,026 Ω
Sound pressure level	72 dB(A)
Vibration	1 mm/s
Insulation resistance	200 MΩ
Bearing temperature	46,4 °C

Efficiency in compliance with IEC 60034-30 Edition 1.0 - 2008, IE3
Testing method IEC 60034-2-1 Edition 1.0 - 2007-09

DIMENSIONS 3F3A-100LA-2B14



Frame size	Number of poles	D	E	F	G	M	R	P	S	T	AC	L	N
100LA	02	28	60	8	24	130	110	160	M8	3.5	215	430	M10

FELSTROM

3F3A-100LA-2B14

Technical data is subject to change. All sizes in mm