

3F3A-112MA-2B3



MECHANICAL DATA

Noise at 50Hz	77 dB(A)
Moment of inertia	0.00880 kgm ²
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	4kW
Speed	2895 rpm
Ins. Class	F
Efficiency	88,1% IE3
Voltage	400V
Connection	D
F.L. Current	7.45A
Power factor	0,88
Duty	S1
Frequency	50 Hz
IP	55
Weight	35 kg

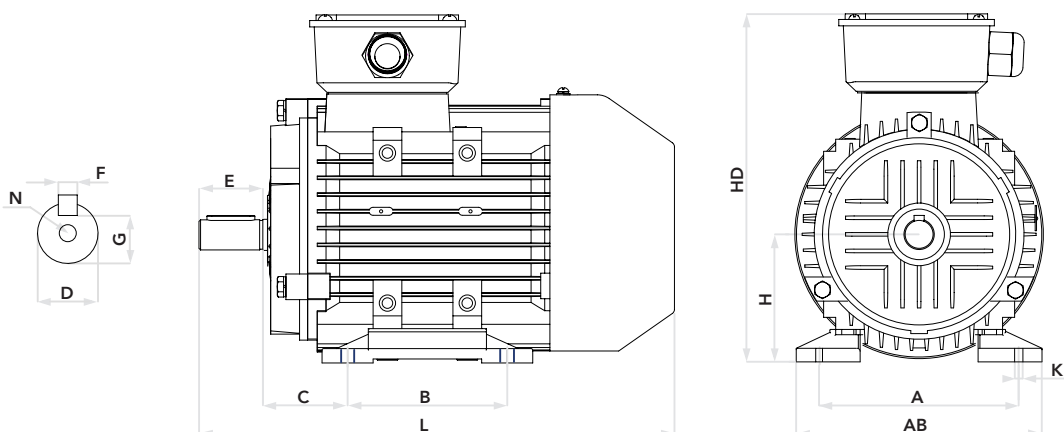
SPECIAL DESIGN

ELECTRICAL TEST DATA

Ambient temperature	23 °C
Resistance of winding	2,061 Ω
Three phase current unbalanced	2,78 %
No load amps	2,25 A
No load input	194,38 W
Core loss (Pfe)	90,57 W
Windage friction loss (Pfw)	84,98 W
Stator winding loss (Pcu1)	209,8 W
Rotor winding loss (Pcu2)	142,4 W
Stray load loss (Ps)	56,26 W
Locked rotor current	62,73 A
Locked rotor current / Full load current	8,42
Full load torque	13,2 Nm
Locked rotor input power at full load	26190,4 W
Locked rotor torque	35,92 Nm
Locked rotor torque / Full load torque	2,72
Full load input	4584 W
Full load current	7,285 A
Efficiency at 50% load	85,15 %
Efficiency at 75% load	88,19 %
Efficiency at 100% load	87,26 %
Power factor at full load	0,9083
Full load slip	3,325 %
Full load speed	2900 rpm
Stator winding temperature rise	65,71 K
Stator phase resistance at Ambient temperature of 95 °C	3,954 Ω
Sound pressure level	72 dB(A)
Vibration	1 mm/s
Insulation resistance	200 MΩ
Bearing temperature	60,2 °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-112MA-2B3



Frame size	Number of poles	A	B	C	D	E	F	G	H	K	N	AB	HD	L
112MA	02	190	140	70	28	60	8	24	112	12	M10	230	300	450

FELSTROM

3F3A-112MA-2B3

