

# 3F3A-100LA-4B5

## MECHANICAL DATA

Noise at 50Hz	70 dB(A)
Moment of inertia	0.00779 kgm <sup>2</sup>
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	2.2kW
Speed	1450 rpm
Ins. Class	F
Efficiency	86,7% IE3
Voltage	400V
Connection	Y
F.L. Current	4.52A
Power factor	0,81
Duty	S1
Frequency	50 Hz
IP	55
Weight	26.5 kg

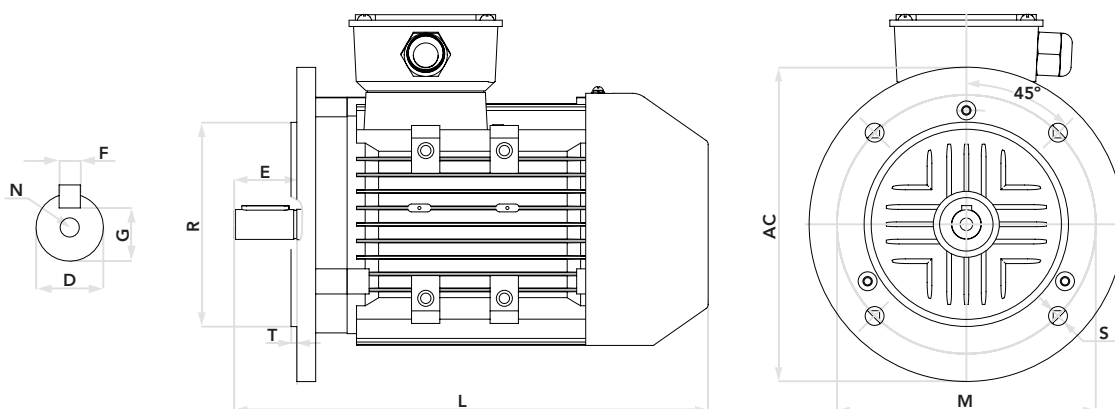
## ELECTRICAL TEST DATA

Ambient temperature	13 °C
Resistance of winding	3,931 Ω
Three phase current unbalanced	1,3 %
No load amps	2,58 A
No load input	164,2 W
Core loss (Pfe)	85,42 W
Windage friction loss (Pfw)	22,87 W
Stator winding loss (Pcu1)	165 W
Rotor winding loss (Pcu2)	74,9 W
Stray load loss (Ps)	26,2 W
Locked rotor current	38,37 A
Locked rotor current / Full load current	8,49
Full load torque	14,49 Nm
Locked rotor input power at full load	18150,6 W
Locked rotor torque	38,6 Nm
Locked rotor torque / Full load torque	2,66
Full load input	2573,4 W
Full load current	4,586 A
Efficiency at 50% load	83,42 %
Efficiency at 75% load	85,66 %
Efficiency at 100% load	85,49 %
Power factor at full load	0,81
Full load slip	3,214 %
Full load speed	1452 rpm
Stator winding temperature rise	53,48 K
Stator phase resistance at Ambient temperature of 95 °C	5,231 Ω
Sound pressure level	63 dB(A)
Vibration	0,7 mm/s
Insulation resistance	200 MΩ
Bearing temperature	53,2 °C

## SPECIAL DESIGN


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-4B5



Frame size	Number of poles	D	E	F	G	M	N	R	S	T	AC	L
100LA	04	28	60	8	24	215	M10	180	4-14.5	4	215	430

FELSTROM

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