3F3A-160MA-2B35

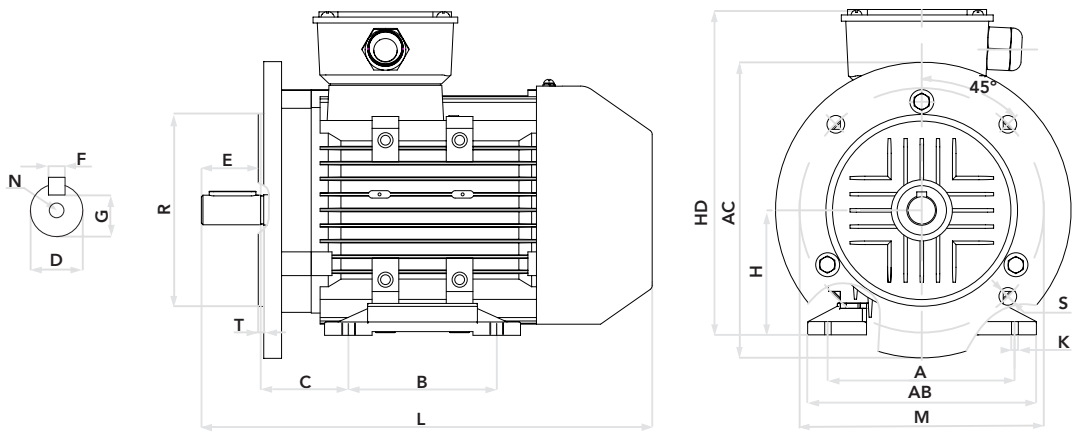
MECHANICAL DATA	
Noise at 50Hz	81 dB(A)
Moment of inertia	0.06268 kgm²
Bearing DE	6309ZZ
Bearing NDE	6309ZZ
Bearing lifetime	40000 h
Direction of rotation	bidirectional
Frame material	aluminum
Colour	RAL 7030
Cooling method	IC411
Ambient temperature	-20 / +40 °C
Altitude above sealevel	1000 m
Output	11kW
Speed	2930 rpm
Ins. Class	F
Efficiency	91,2% IE3
Voltage	400V
Connection	D
F.L. Current	19.6A
Power factor	0,89
Duty	S1
Frequency	50 Hz
IP	55
Weight	86 kg

SPECIAL DESIGN

ELECTRICAL TEST DATA	
Ambient temperature	16 °C
Resistance of winding	0,328 Ω
Three phase current unbalanced	6,25 %
No load amps	5,05 A
No load input	452,68 W
Core loss (Pfe)	209,31 W
Windage friction loss (Pfw)	223,01 W
Stator winding loss (Pcu1)	244,4 W
Rotor winding loss (Pcu2)	183,6 W
Stray load loss (Ps)	179,7 W
Locked rotor current	156,996 A
Locked rotor current / Full load current	8,01
Full load torque	
Locked rotor input power at full load	53114,1 W
Locked rotor torque	107,01 Nm
Locked rotor torque / Full load torque	
Full load input	12040 W
Full load current	19,45 A
Efficiency at 50% load	90,56 %
Efficiency at 75% load	91,38 %
Efficiency at 100% load	91,35 %
Power factor at full load	0,8936
Full load slip	1,585 %
Full load speed	2952,45 rpm
Stator winding temperature rise	46,82 K
Stator phase resistance at Ambient temperature of 95 °C	0,646 Ω
Sound pressure level	70 dB(A)
Vibration	1,5 mm/s
Insulation resistance	200 MΩ
Bearing temperature	42 °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-160MA-2B35



Frame size	Number of poles	A	B	C	D	E	F	G	H	K	M	R	S	T	AB	AC	HD	L	N
160MA	02	254	210	108	42	110	12	37	160	14.5	300	250	4-18.5	5	305	330	420	620	M16

FELSTROM

3F3A-160MA-2B35

Technical data is subject to change. All sizes in mm