



IE3

Data Sheet

Felm reference

Three Phase Induction Motor

Drawing no.

Customer

Client reference

Type:

F3 160M kW.11 4POLES

Identification

Frame:	160	mm	Insulation Class:	F
Output:	11,0	kW	Temperature Rise:	80K
Frequency:	50	Hz	Service Factor:	1,00
Poles:	4		Duty:	S1
Rated Speed:	1470	rpm	Protection Degree:	IP55
Slip:	2,0	%	Cooling:	IC 411
Rated Voltage:	400 / 690	V	Mounting:	B5 IM3001
Connection:	Δ / λ		Vibration:	2.2 mm/s
Rated Current:	21,4 / 12,4	A	Approx. Weight:	138 kg
Locked Rotor Current:	770	%	Moment of Inertia:	0.10676 kgm ²
Rated Torque:	71,5	Nm	Noise Level (Lp):	68 dB(A)
Locked Rotor Torque:	220	%	Direction of Rotation:	Both
Breakdown Touque:	230	%	Starting Method:	DOL
Ambient Temperature:	-20 / +40°C		Coupling:	DIRECT
Altitude asl:	1000m		Load Type:	PARABOLIC CURVE
Relative humidity	Max 90%		Painting	RAL 5010

Performance

Bearing Information

Output:	100%	75%	50%	DE	NDE
Efficiency(%) :	91,4	91,4	88,7	Bearing:	6309 2Z C.3 6309 2Z C.3
Power Factor:	0,81	0,77	0,69	Regreasing int.(h):	
				Grease amount(g)	
				Grease-PolyrexEM	

Notes / Accessories

PTC Thermistors

Frame: Cast iron

Terminal box: On top Cast iron

Fan: Polyfan

Fan Cover: Steel Sheet

Deviation Sheet

FELM

Customer

Standards

Specification: IEC60034-1

Test: IEC60034-2

Noise: IEC60034-9

Vibration: IEC60034-14

Edition

Performed	Checked	Date
F.L.	M.C	04.09.2020

**PRELIMINARY
DOCUMENT**