

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EL160M6D-PD-BA-C34

RE: 891577

Date : 03.01.2022

Power [kW]	: 7.50
Input Voltage [V]	: 400
Connection Type [Δ / Y]	: Δ
Frequency [Hz]	: 50
Pole Number	: 6
Nominal Speed [rpm]	: 972
Nominal Current [A]	: 15.6
Nominal Moment [Nm]	: 73.7
Nominal Efficiency [η]	: 89.1
Power Factor [$\cos\phi$]	: 0.78
Locked Rotor Current [I_a/I_n]	: 6.3
Locked Rotor Torque [Ma/Mn]	: 2.6
Breakdown Torque [Mk/Mn]	: 3.0
Motor Color	: RAL 7031
Ambient Temperature	: -15°C / +40°C

Efficiency Class	: IE3
Duty Cycle	: S1
Service Factor	: 1.20
Frame Size	: 160M
Weight [kg]	: 96.0
Insulation Class	: F [155°C]
Temperature Rise	: B [80°K]
Protection Class	: IP55
Vibration Severity Grade	: A
Method of Cooling	: IC411
Direction of Rotation	: Bidirectional
Balance	: Half Key
Motor Protection	: PTC
Altitude Above Sea Level	: 1000m
Sound Pressure Level [dBA]	: 61

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%]	$\cos\phi$
Δ	400	50	7.50	972	15.6	89.1	0.78
Y	690	50	7.50	972	8.98	89.1	0.78
Δ	460	60	8.70	1170	15.2	91.0	0.79

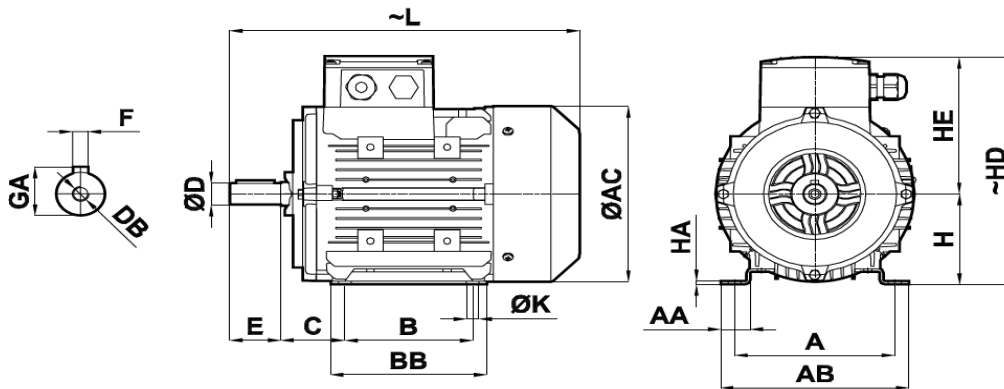
MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.07870
Bearing DS / NS	: 6309ZZ / 6209ZZ
Frame Material	: Aluminum
Flange Type / Material	: B3 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: 2xM32x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M6

MECHANICAL DIMENSIONS



FLANGE TYPE	D	E	L	AC	H	HE	HD	F	GA	DB	C	ϕK	B	BB	HA	AA	A	AB
B3	42	110	605	316	160	224	384	12	45	M16	108	14.5	210	323	15	65	254	295

Manufactured and tested in accordance with IEC 60034

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

*MECALINE has right to change all the data without prior notice.

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