

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EG180M2B-PD-BA-C34

RE: 891453

Date : 03.01.2022

Power [kW]	: 22.0	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Δ	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 180M
Pole Number	: 2	Weight [kg]	: 178
Nominal Speed [rpm]	: 2957	Insulation Class	: F [155°C]
Nominal Current [A]	: 38.1	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 71.1	Protection Class	: IP55
Nominal Efficiency [η]	: 92.7	Vibration Severity Grade	: A
Power Factor [$\cos\phi$]	: 0.90	Method of Cooling	: IC411
Locked Rotor Current [I_a/I_n]	: 8.6	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.6	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.9	Motor Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 70

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%]	$\cos\phi$
Δ	400	50	22.0	2957	38.1	92.7	0.90
Y	690	50	22.0	2957	22.0	92.7	0.90
Δ	460	60	25.5	3545	37.9	92.8	0.91

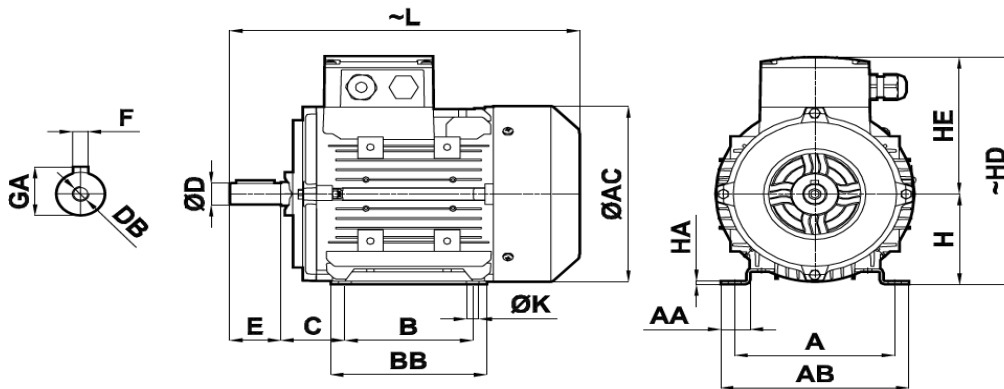
MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.06299
Bearing DS / NS	: 6310ZZ / 6210ZZ
Frame Material	: Cast Iron
Flange Type / Material	: B3 / Cast Iron
Cooling Fan Material	: Plastic
End Shield Material	: Cast Iron

TERMINAL BOX

Terminal Box Material	: Cast Iron
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	48	110	697	348	180	250	430	14	51.5	M16	121	14.5	241	319	15	50	279	326

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.

FR.AG.010 REV. NO: 03 REV TARİHİ : 01.01.2021

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