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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE
EXPROOF (ATEX) MOTOR

IE3

Type : 3ZL080M6C-FA-AA-162 **Date** : 24.07.2025

Power [kW]	: 0.55	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.00
Frequency [Hz]	: 50	Frame Size	: 080M
Pole Number	: 6	Weight [kg]	: 10.6
Nominal Speed [rpm]	: 935	Insulation Class	: F [155°C]
Nominal Current [A]	: 1.47	Temperature Rise	: B [80˚K]
Nominal Moment [Nm]	: 5.61	Protection Class	: IP66
Nominal Efficiency [η]	: 77.2	Vibration Severity Grade	: A
Power Factor [cosϕ]	: 0.70	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.3	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.2	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.7	Motor Thermal Protection	: PTC (140°C)
Motor Color	: RAL 7031	ATEX Certification Number	: IEP 23 ATEX 1306X
Ambient Temperature	: -20°C / +40°C	ATEX Classification (Gas)	: II 3G Ex ec IIC T4 Gc
Altitude Above Sea Level	: 1000m	ATEX Classification (Dust)	: II 3D Ex tc IIIC T140°C Dc
Sound Pressure Level [dBA]	: 43	ATEX Zone Categories (Gas/Dust)	: Zone 2/22

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cosϕ	Cl
Δ	230	50	0.55	935	2.55	77.2	77.3	74.4	0.70	IE3
Y	400	50	0.55	935	1.47	77.2	77.3	74.4	0.70	IE3

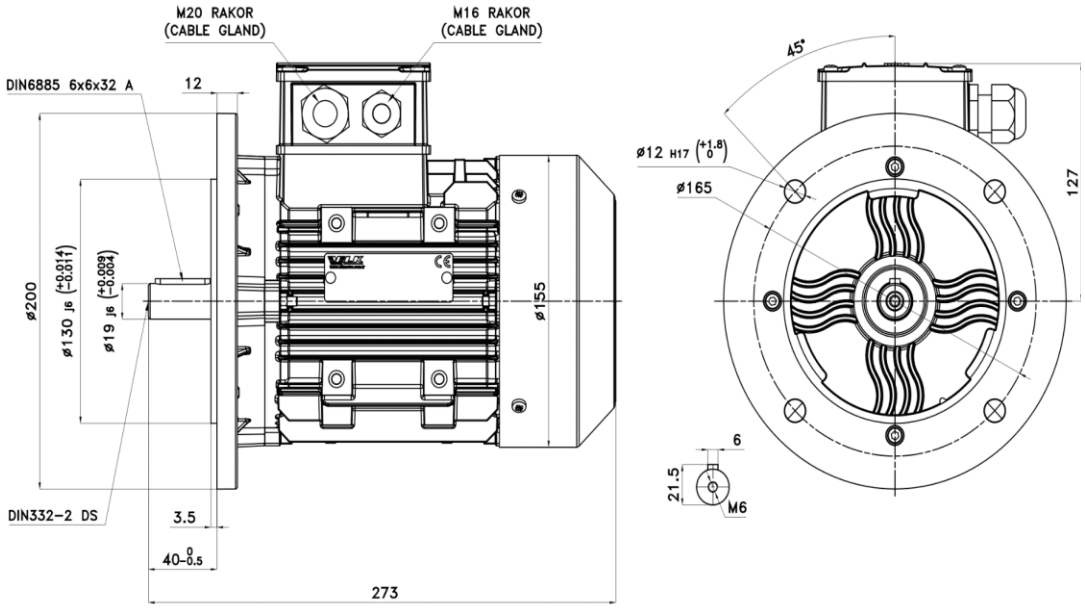
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00228
Bearing [DS / NS]	: 6204ZZ C3 / 6204ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B5 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M16x1.5+M20x1.5
Terminal Box Gland Material	: Metal
Contact Screw Thread	: M4

MECHANICAL DIMENSIONS



Manufactured and tested in accordance with IEC 60034

FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
*ELK Motor has right to change all the data without prior notice.