ELK MOTOR SAN. ve TİC. A.Ş.
www.elkmotor.com.tr
+90 (282) 726 92 94

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2EC071M4D-FC-A0-000 **Date** : 02.01.2025

Power [kW]	: 0.55	Efficiency Class	: IE2
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.15
Frequency [Hz]	: 50	Frame Size	: 071M
Pole Number	: 4	Weight [kg]	: 7.40
Nominal Speed [rpm]	: 1405	Insulation Class	: F [155°C]
Nominal Current [A]	: 1.43	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 3.73	Protection Class	: IP55
Nominal Efficiency [η]	: 77.1	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.72	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.3	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.1	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.6	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 46

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	1405	2.48	77.1	77.5	75.0	0.72	IE2
Y	400	50	0.55	1405	1.43	77.1	77.5	75.0	0.72	IE2
Y	460	60	0.55	1715	1.28	78.4	77.5	73.5	0.69	IE2
Y	460	60	0.64	1705	1.40	78.4	78.9	76.3	0.73	IE2

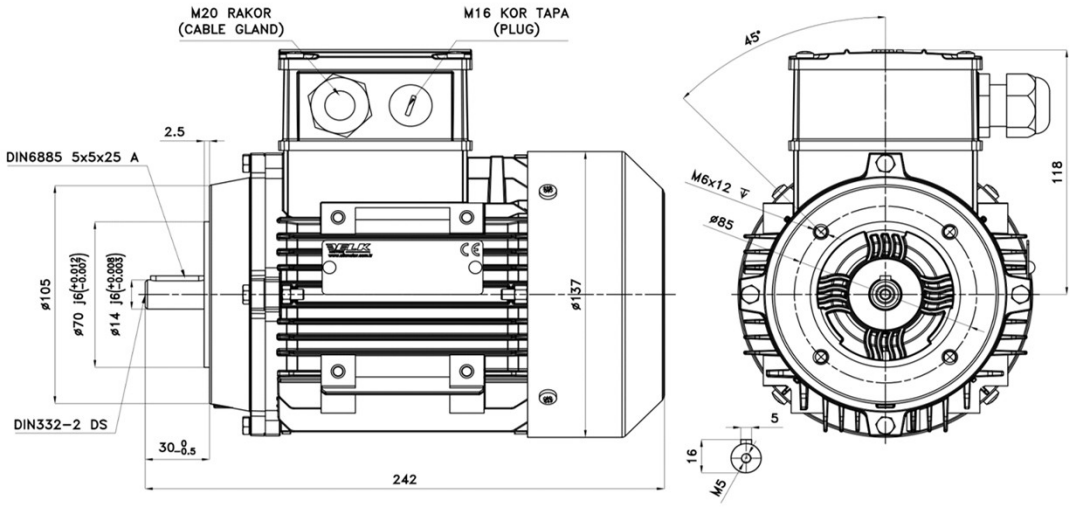
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00097
Bearing [DS / NS]	: 6202ZZ C3 / 6202ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B14 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M20x1.5
Terminal Box Blind Cap	: M16x1.5
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.