ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

SINGLE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2MD090L4E-FC-70-000 **Date** : 01.06.2024

Power [kW]	: 1.50	Efficiency Class	: IE2
Input Voltage [V]	: 220	Duty Cycle	: S1
Frequency [Hz]	: 50	Service Factor	: 1.00
Pole Number	: 4	Frame Size	: 090L
Nominal Speed [rpm]	: 1420	Weight [kg]	: 18.7
Nominal Current [A]	: 8.45	Insulation Class	: F [155°C]
Nominal Moment [Nm]	: 10.0	Temperature Rise	: B [80˚K]
Nominal Efficiency [η]	: 82.8	Protection Class	: IP55
Power Factor [cosϕ]	: 0.98	Vibration Severity Grade	: A
Locked Rotor Current [Ia/In]	: 4.00	Method of Cooling	: IC411 (TEFC)
Locked Rotor Torque [Ma/Mn]	: 0.48	Direction of Rotation	: Bidirectional
Breakdown Torque [Mk/Mn]	: 1.70	Balance	: Half Key
Run Capacitor Capacity [µF]	: 60	Motor Thermal Protection	: --
Run Capacitor Voltage [V]	: 400	Altitude Above Sea Level	: 1000m
Start Capacitor Capacity [µF]	: --	Motor Color	: RAL 7031
Start Capacitor Voltage [V]	: --	Ambient Temperature	: -15°C / +40°C

ELECTRICAL DATA

U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	Cosϕ	η [%100]	η [%75]	η [%50]	Cl
220	50	1.50	1420	8.45	0.98	82.8	81.0	73.2	IE2

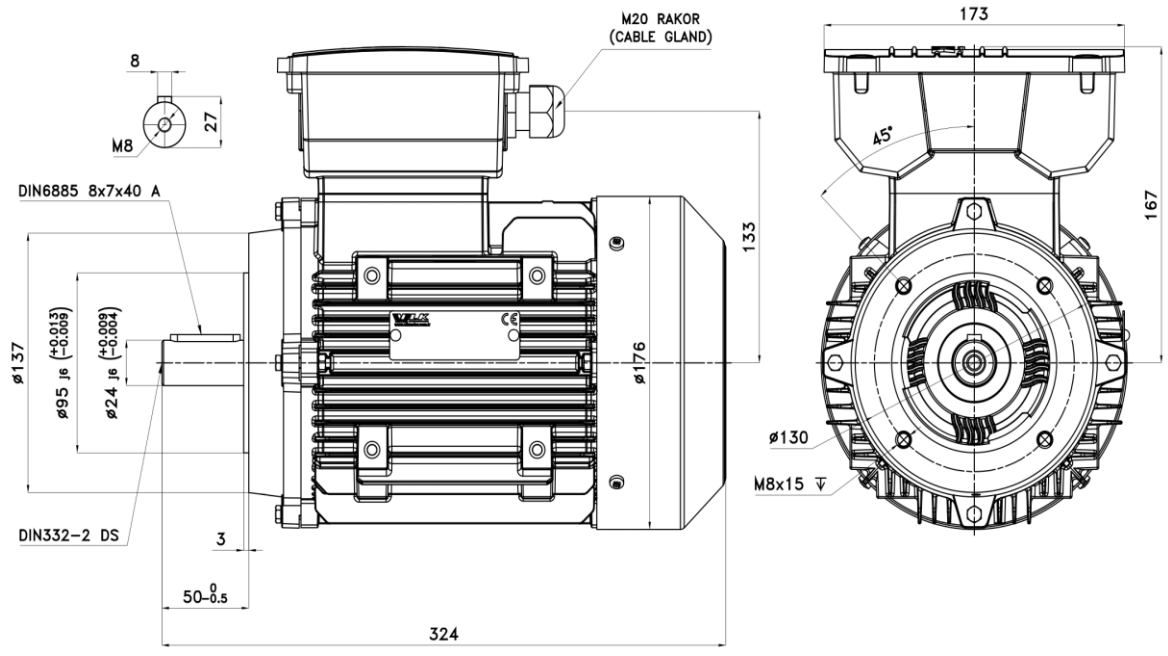
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00373
Bearing DS / NS	: 6205ZZ C3 / 6205ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B14 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Cable Gland Direction	: Non-Drive Side
Terminal Box Position	: Top
Terminal Box Cable Entry	: M20x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M4

MECHANICAL DIMENSIONS



Manufactured and tested in accordance with IEC 60034

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

*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.