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

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : AEL090L4E-FC-A0-000 **Date** : 01.06.2024

Power [kW]	: 2.40	Efficiency Class	: --
Input Voltage [V]	: 400	Duty Cycle	: S3-%75
Connection Type [Δ / Y]	: Y	Service Factor	: --
Frequency [Hz]	: 50	Frame Size	: 090L
Pole Number	: 4	Weight [kg]	: 18.4
Nominal Speed [rpm]	: 1420	Insulation Class	: F [155°C]
Nominal Current [A]	: 5.30	Temperature Rise	: F [105°K]
Nominal Moment [Nm]	: 16.1	Protection Class	: IP55
Nominal Efficiency [η]	: 82.7	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.79	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 5.9	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.5	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.1	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 52

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	2.40	1420	9.18	82.7	82.1	79.6	0.79	--
Y	400	50	2.40	1420	5.30	82.7	82.1	79.6	0.79	--
Y	460	60	2.78	1725	5.22	83.8	83.2	84.4	0.80	--

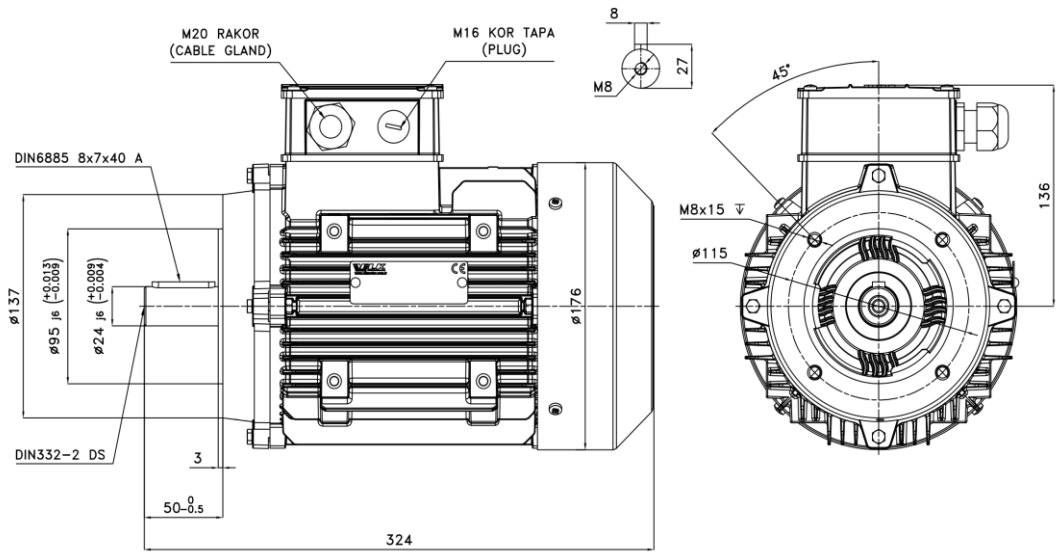
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00410
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
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

*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.