ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EL100L8C-PD-A0-000 **Date** : 01.06.2024

Power [kW]	: 1.10	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 100L
Pole Number	: 8	Weight [kg]	: 24.0
Nominal Speed [rpm]	: 705	Insulation Class	: F [155°C]
Nominal Current [A]	: 3.45	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 14.9	Protection Class	: IP55
Nominal Efficiency [η]	: 77.7	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.60	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 3.7	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 1.8	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.4	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: --

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	1.10	705	5.98	77.7	77.9	74.9	0.60	IE3
Y	400	50	1.10	705	3.45	77.7	77.9	74.9	0.60	IE3

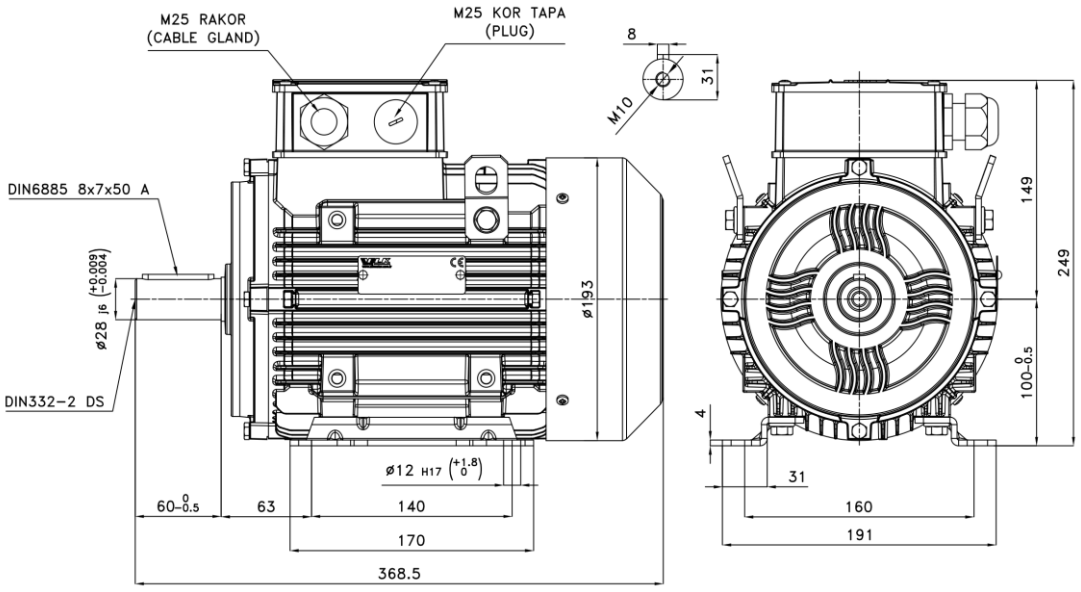
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00850
Bearing [DS / NS]	: 6206ZZ C3 / 6206ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B3 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M25x1.5
Terminal Box Blind Cap	: M25x1.5
Contact Screw Thread	: M5

MECHANICAL DIMENSIONS



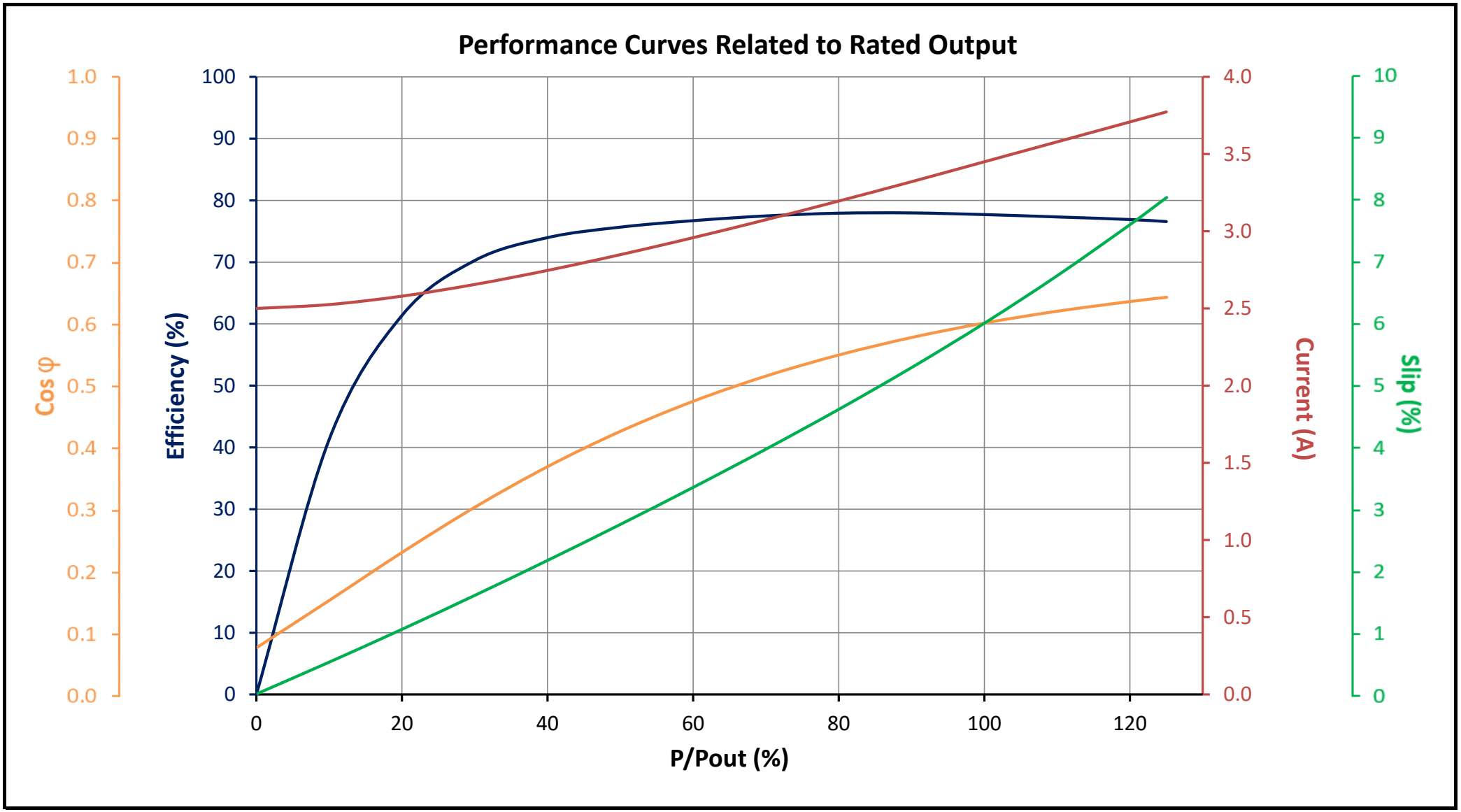
Manufactured and tested in accordance with IEC 60034

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.

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