ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : AEL112M4E-PD-B0-000 **Date** : 01.06.2024

Power [kW]	: 6.00	Efficiency Class	: --
Input Voltage [V]	: 400	Duty Cycle	: S3-%75
Connection Type [Δ / Y]	: Δ	Service Factor	: --
Frequency [Hz]	: 50	Frame Size	: 112M
Pole Number	: 4	Weight [kg]	: 34.5
Nominal Speed [rpm]	: 1430	Insulation Class	: F [155°C]
Nominal Current [A]	: 12.1	Temperature Rise	: F [105°K]
Nominal Moment [Nm]	: 40.1	Protection Class	: IP55
Nominal Efficiency [η]	: 86.0	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.83	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 6.5	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.3	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.0	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 59

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cosφ	Cl
Δ	400	50	6.00	1430	12.1	86.0	86.8	85.8	0.83	--
Y	690	50	6.00	1430	6.99	86.0	86.8	85.8	0.83	--
Δ	460	60	6.96	1735	12.0	86.8	87.5	86.5	0.84	--

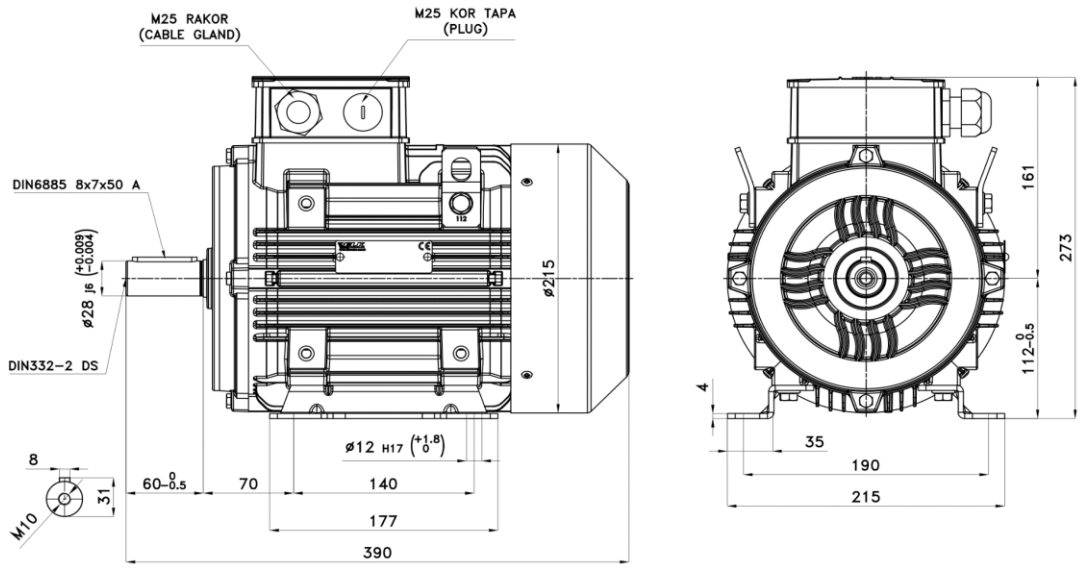
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.01430
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.