

Type : 4EG315S6C-FA-BA-000

Date : 09/02/2026

Power [kW]	: 75.0	Efficiency Class	: IE4
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Δ	Service Factor	: 1.25
Frequency [Hz]	: 50	Frame Size	: 3155
Pole Number	: 6	Weight [kg]	: 1215
Nominal Speed [rpm]	: 994	Insulation Class	: F [155°C]
Nominal Current [A]	: 133	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 721	Protection Class	: IP55
Nominal Efficiency [η]	: 95.4	Vibration Severity Grade	: A
Power Factor [cos ϕ]	: 0.85	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [I_a/I_n]	: 8.8	Direction of Rotation	: Bidirectional
Locked Rotor Torque [M_a/M_n]	: 2.8	Balance	: Half Key
Breakdown Torque [M_k/M_n]	: 3.5	Motor Thermal Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 67

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cos ϕ	Cl
Δ	400	50	75.0	994	133	95.4	95.5	95.2	0.85	IE4
Y	690	50	75.0	994	77.0	95.4	95.5	95.2	0.85	IE4
Δ	460	60	75.0	1195	115	95.8	95.6	94.8	0.85	IE4
Δ	460	60	87.0	1195	132	95.8	95.8	95.3	0.86	IE4

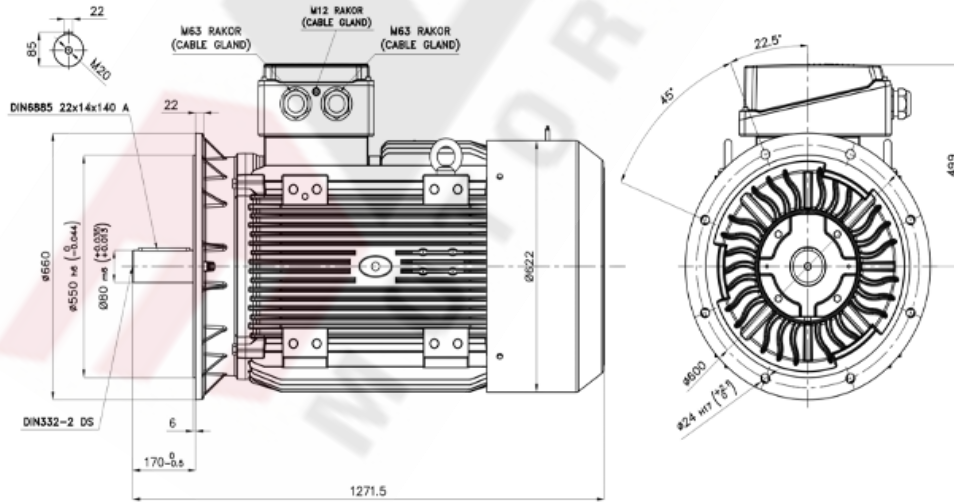
MECHANICAL DATA

Moment of Inertia [kgm ²]	: 3.50000
Bearing [DS / NS]	: 6319 C3 / 6319 C3
Frame Material	: Cast Iron
Flange Type / Material	: B5 / Cast Iron
Cooling Fan Material	: Plastic
End Shield Material	: Cast Iron
Lubrication of Bearings [DS / NS]	: 9700h-45gr / 10400h-45gr MOBIL Polyrex EM

TERMINAL BOX

Terminal Box Material	: Cast Iron
Terminal Box Position	: Top
Terminal Box Cable Entry	: M12x1.5+2xM63x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M16

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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TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781 THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 4EG315S6C-FA-BA-000

Date : 09/02/2026

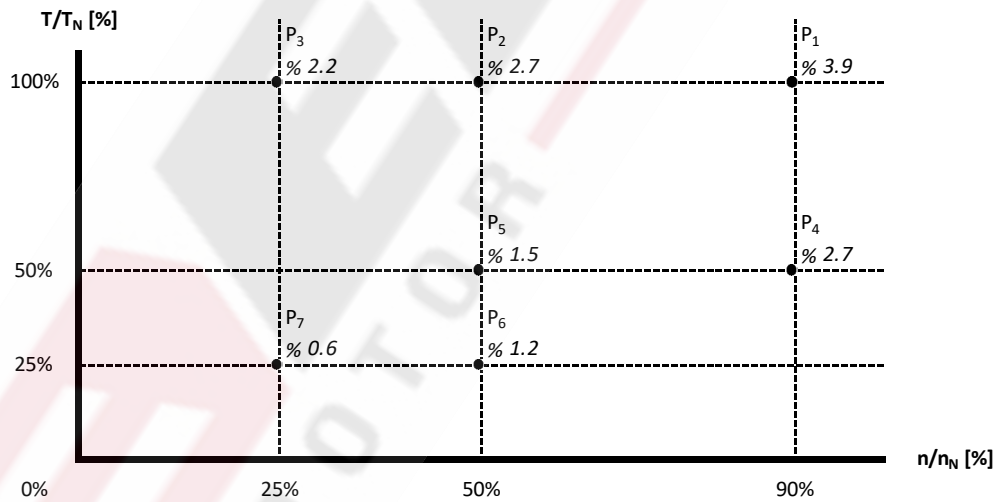
NAMEPLATE DATA

Power [kW]	: 75.0	Nominal Speed [rpm]	: 994
Nominal Voltage [V]	: 400	Nominal Current [A]	: 133
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 721
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 95.4

THE POWER LOSSES AT SEVEN OPERATING POINTS ACCORDING TO COMMISSION REGULATION (EU) 2019/1781

Operating Point Number	Speed n/n_N [%]	Torque T/T_N [%]	Relative Power Losses P_L/P_N [%]	Efficiency η [%]
P ₁	90	100	3.9	95.9
P ₂	50	100	2.7	94.9
P ₃	25	100	2.2	92.1
P ₄	90	50	2.7	94.3
P ₅	50	50	1.5	94.5
P ₆	50	25	1.2	91.5
P ₇	25	25	0.6	91.2

MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



Manufactured and tested in accordance with IEC 60034

FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

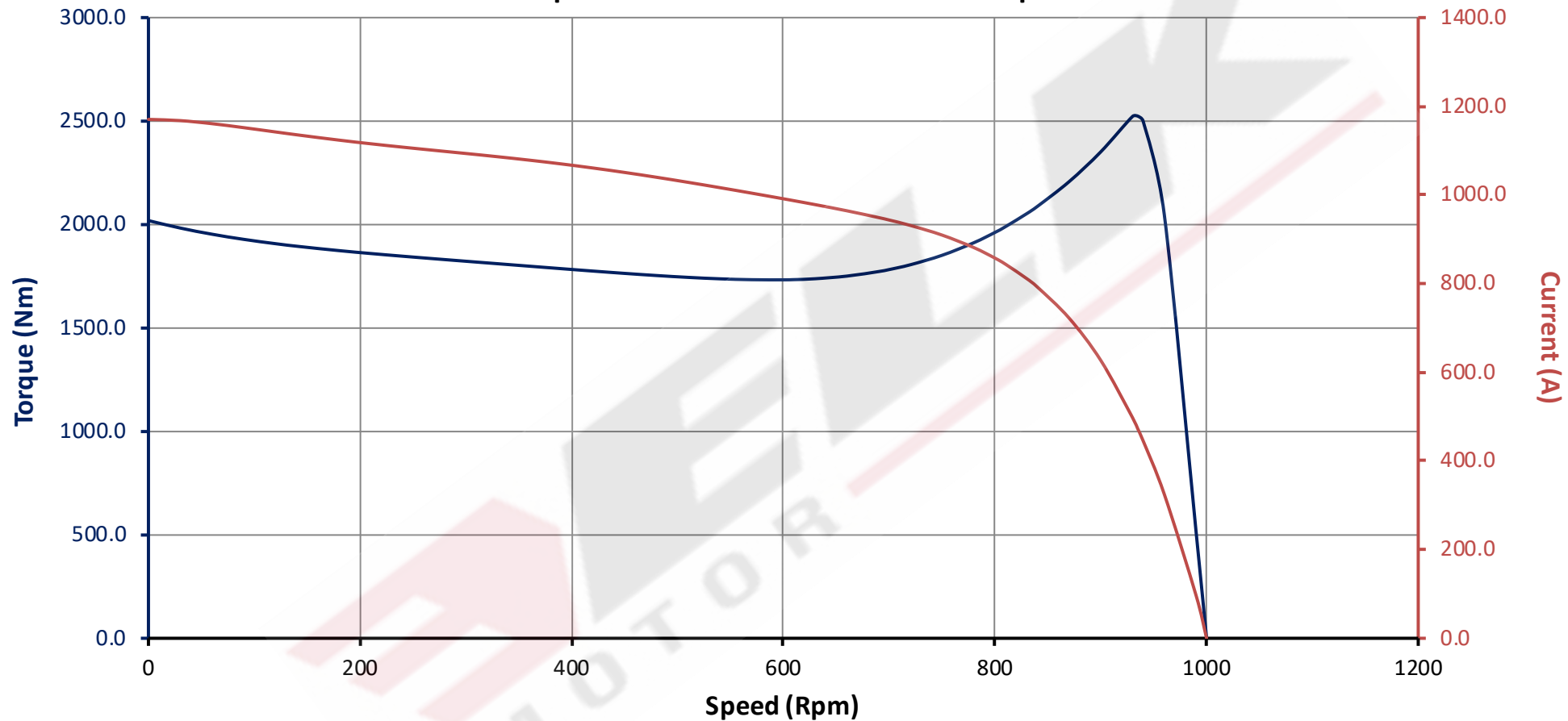
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Motor Code :

4EG315S6C-FA-BA-000

Torque and Current Curves Related to Speed



Motor Code :

4EG315S6C-FA-BA-000

Performance Curves Related to Rated Output

