

Type : 3ED315L4G-PD-BA-099**Date** : 09/02/2026

Power [kW] : 250
Input Voltage [V] : 400
Connection Type [Δ / Y] : Δ
Frequency [Hz] : 50
Pole Number : 4
Nominal Speed [rpm] : 1492
Nominal Current [A] : 442
Nominal Moment [Nm] : 1600
Nominal Efficiency [η] : 96.0
Power Factor [$\cos\phi$] : 0.85
Locked Rotor Current [I_a/I_n] : 8.1
Locked Rotor Torque [M_a/M_n] : 3.0
Breakdown Torque [M_k/M_n] : 3.4
Motor Color : RAL 7031
Ambient Temperature : -15°C / +40°C

Efficiency Class : IE3
Duty Cycle : S1
Service Factor : --
Frame Size : 315L
Weight [kg] : 1530
Insulation Class : H [180°C]
Temperature Rise : F [105°K]
Protection Class : IP55
Vibration Severity Grade : A
Method of Cooling : IC411 (TEFC)
Direction of Rotation : Bidirectional
Balance : Half Key
Motor Thermal Protection : PTC
Altitude Above Sea Level : 1000m
Sound Pressure Level [dBA] : 75

ELECTRICAL DATA

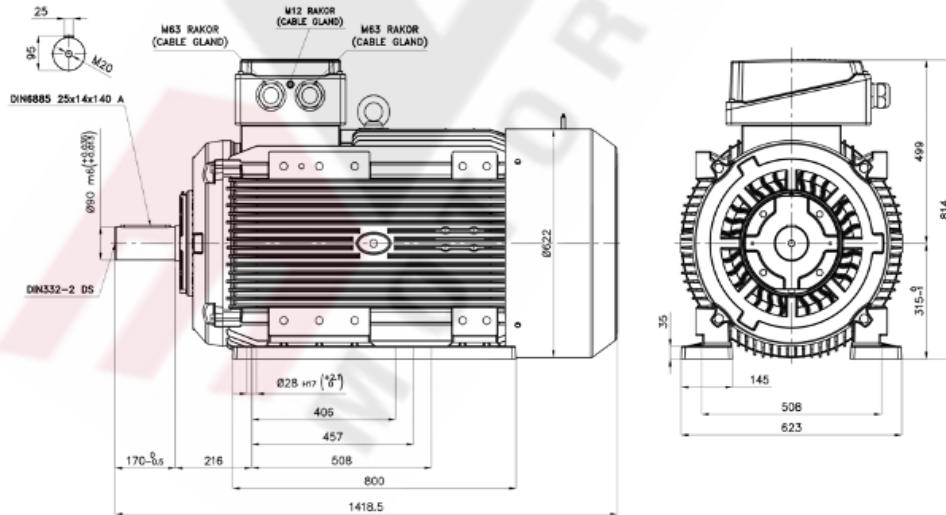
Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cos ϕ	Cl
Δ	400	50	250	1492	442	96.0	96.1	95.6	0.85	IE3
Y	690	50	250	1492	255	96.0	96.1	95.6	0.85	IE3
Δ	460	60	250	1793	388	96.2	96.0	95.6	0.84	IE3
Δ	460	60	290	1792	440	96.2	96.1	95.7	0.86	IE3

MECHANICAL DATA

Moment of Inertia [kgm^2] : 5.47000
Bearing [DS / NS] : 6319 C3 / 6319 C3
Frame Material : Cast Iron
Flange Type / Material : B3 / Cast Iron
Cooling Fan Material : Plastic
End Shield Material : Cast Iron
Lubrication of Bearings [DS / NS] : 6400h-45gr / 6900h-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.



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

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

Type : 3ED315L4G-PD-BA-099

Date : 09/02/2026

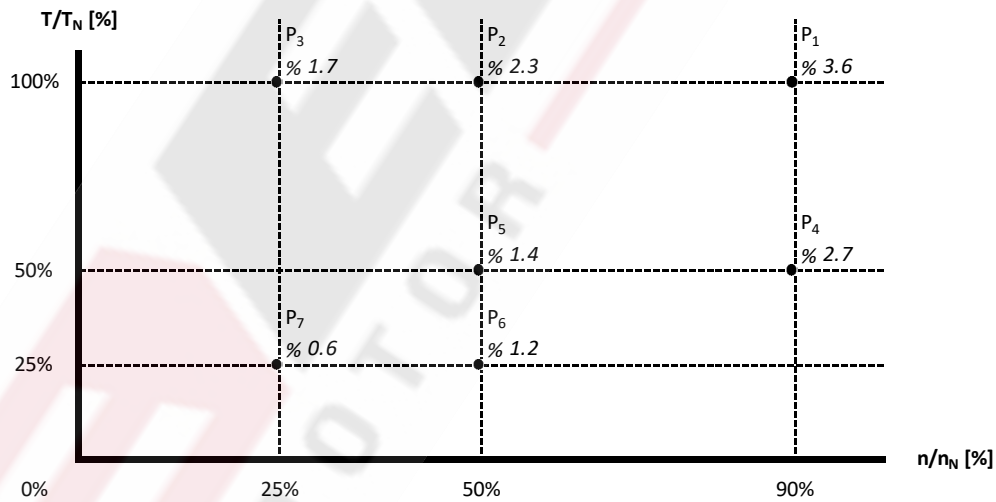
NAMEPLATE DATA

Power [kW]	: 250	Nominal Speed [rpm]	: 1492
Nominal Voltage [V]	: 400	Nominal Current [A]	: 442
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 1600
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η %]	: 96.0

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	3.6	96.2
P ₂	50	100	2.3	95.6
P ₃	25	100	1.7	93.6
P ₄	90	50	2.7	94.4
P ₅	50	50	1.4	94.7
P ₆	50	25	1.2	91.6
P ₇	25	25	0.6	91.3

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

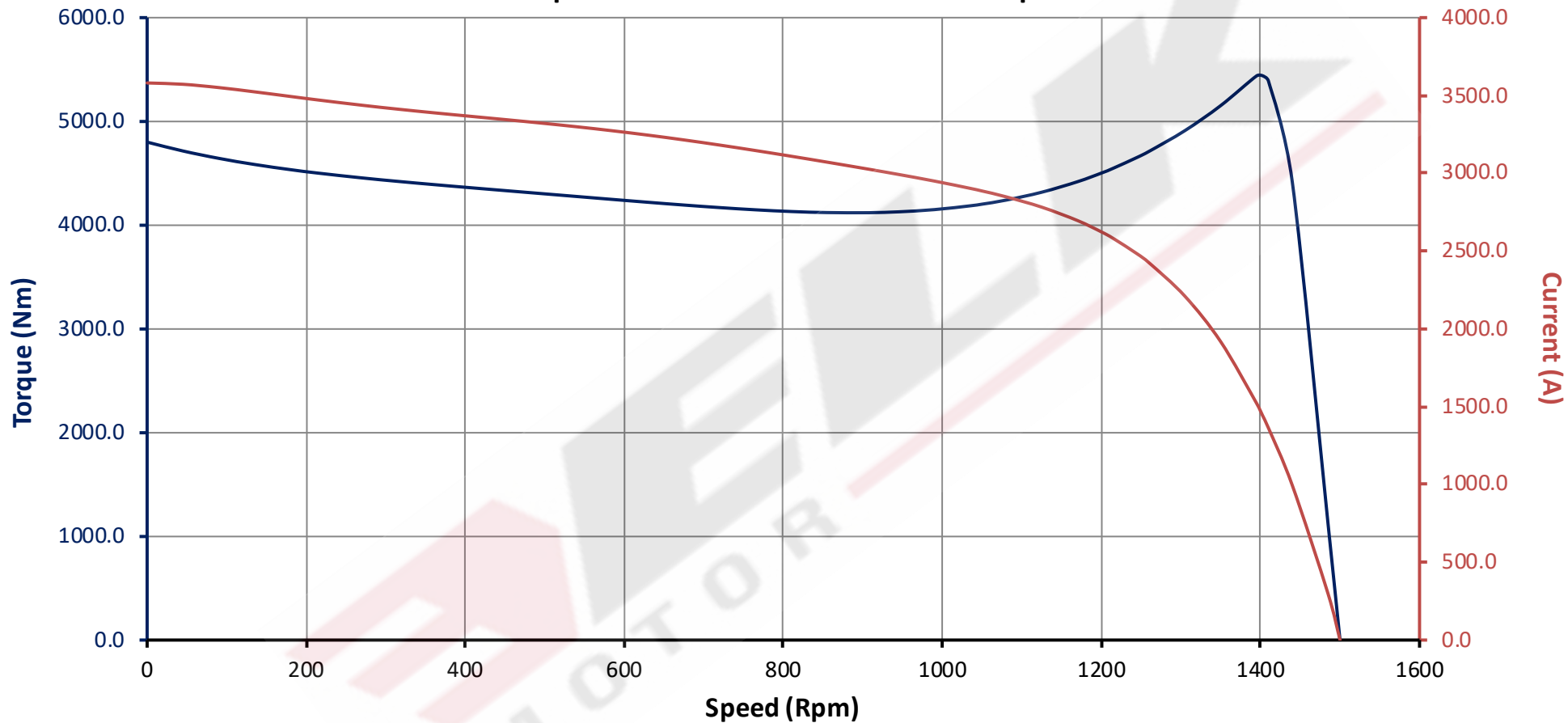
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Motor Code :

3ED315L4G-PD-BA-099

Torque and Current Curves Related to Speed



Motor Code :

3ED315L4G-PD-BA-099

Performance Curves Related to Rated Output

