ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EL200L4D-PD-BA-000 **Date** : 01.06.2024

Power [kW]	: 30.0	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Δ	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 200L
Pole Number	: 4	Weight [kg]	: 192
Nominal Speed [rpm]	: 1475	Insulation Class	: F [155°C]
Nominal Current [A]	: 54.5	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 194	Protection Class	: IP55
Nominal Efficiency [η]	: 93.6	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.85	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 8.0	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 3.0	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.4	Motor Thermal Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 65

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	30.0	1475	54.5	93.6	94.1	94.0	0.85	IE3
Y	690	50	30.0	1475	31.5	93.6	94.1	94.0	0.85	IE3
Δ	460	60	30.0	1780	47.2	94.1	93.9	93.3	0.85	IE3
Δ	460	60	34.8	1775	54.1	94.5	94.7	94.4	0.86	IE3

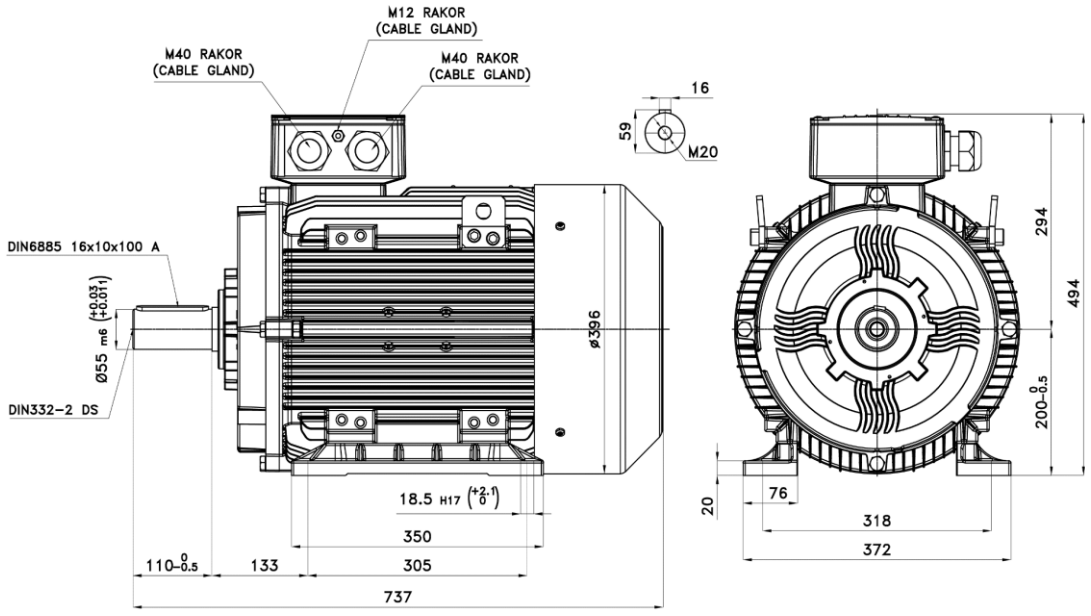
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.28413
Bearing [DS / NS]	: 6312ZZ C3 / 6212ZZ 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	: M12x1.5+2xM40x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M6

MECHANICAL DIMENSIONS



Manufactured and tested in accordance with IEC 60034

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

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TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 3EL200L4D-PD-BA-000 **Date** : 01.06.2024

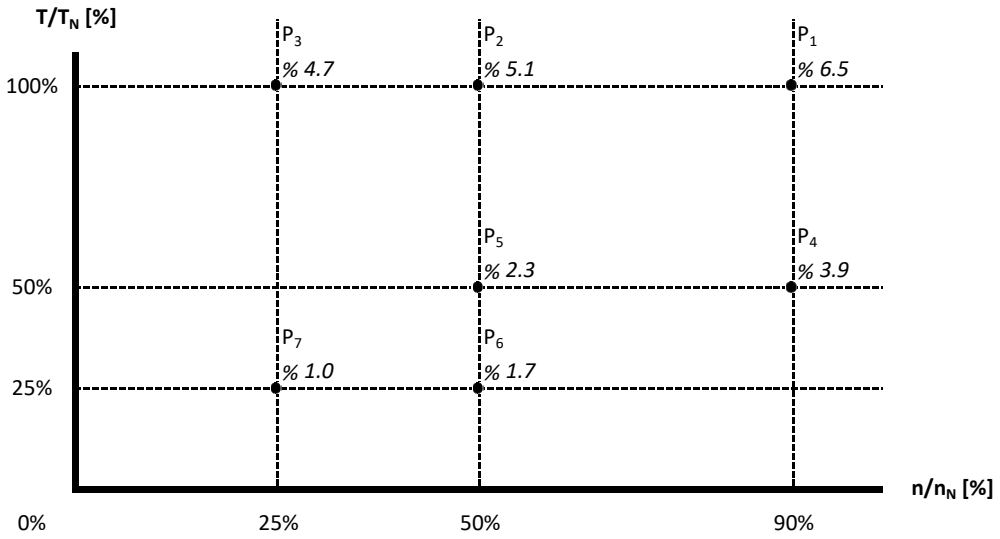
NAMEPLATE DATA

Power [kW]	: 30.0	Nominal Speed [rpm]	: 1475
Nominal Voltage [V]	: 400	Nominal Current [A]	: 54.5
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 194
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 93.6

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	6.5	93.3
P_2	50	100	5.1	90.8
P_3	25	100	4.7	84.1
P_4	90	50	3.9	92.1
P_5	50	50	2.3	91.4
P_6	50	25	1.7	88.2
P_7	25	25	1.0	86.3

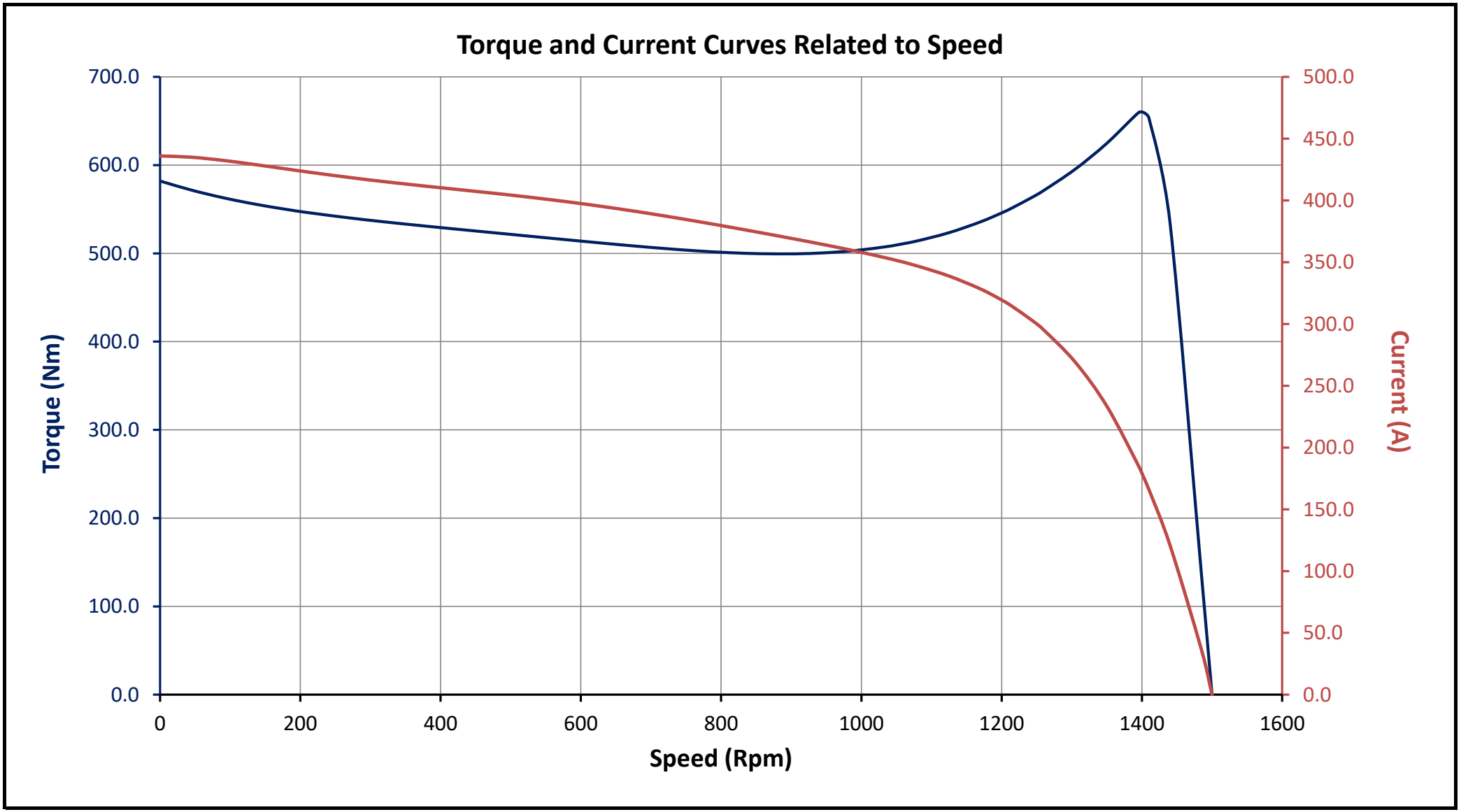
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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Motor Code : 3EL200L4D-PD-BA-000



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