ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2EL080M6A-PD-A0-000 **Date** : 01.06.2024

Power [kW]	: 0.37	Efficiency Class	: IE2
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.15
Frequency [Hz]	: 50	Frame Size	: 080M
Pole Number	: 6	Weight [kg]	: 9.10
Nominal Speed [rpm]	: 925	Insulation Class	: F [155°C]
Nominal Current [A]	: 1.08	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 3.81	Protection Class	: IP55
Nominal Efficiency [η]	: 71.4	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.69	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.0	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.0	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.6	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 45

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	0.37	925	1.87	71.4	71.5	70.0	0.69	IE2
Y	400	50	0.37	925	1.08	71.4	71.5	70.0	0.69	IE2
Y	460	60	0.37	1135	0.99	71.8	71.9	70.2	0.65	IE2
Y	460	60	0.43	1125	1.07	72.0	72.0	70.5	0.70	IE2

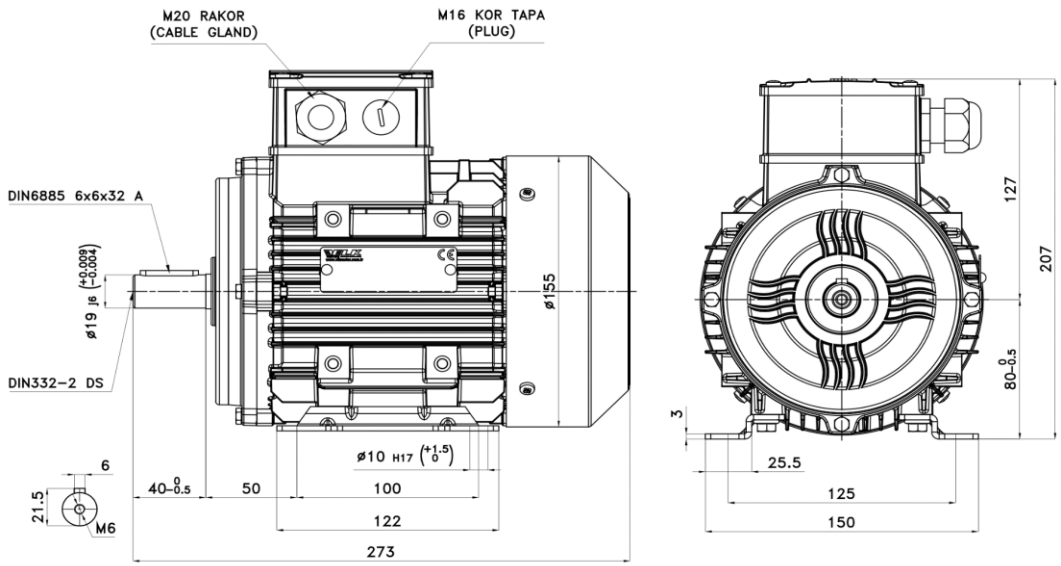
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00176
Bearing [DS / NS]	: 6204ZZ C3 / 6204ZZ 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	: M20x1.5
Terminal Box Blind Cap	: M16x1.5
Contact Screw Thread	: M4

MECHANICAL DIMENSIONS



Manufactured and tested in accordance with IEC 60034

*Technical data are subject to change! There may be discrepancies between calculated and rating plate values.
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TECHNICAL DATASHEET ACCORDING TO COMMISSION REGULATION (EU) 2019/1781

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : 2EL080M6A-PD-A0-000 **Date** : 01.06.2024

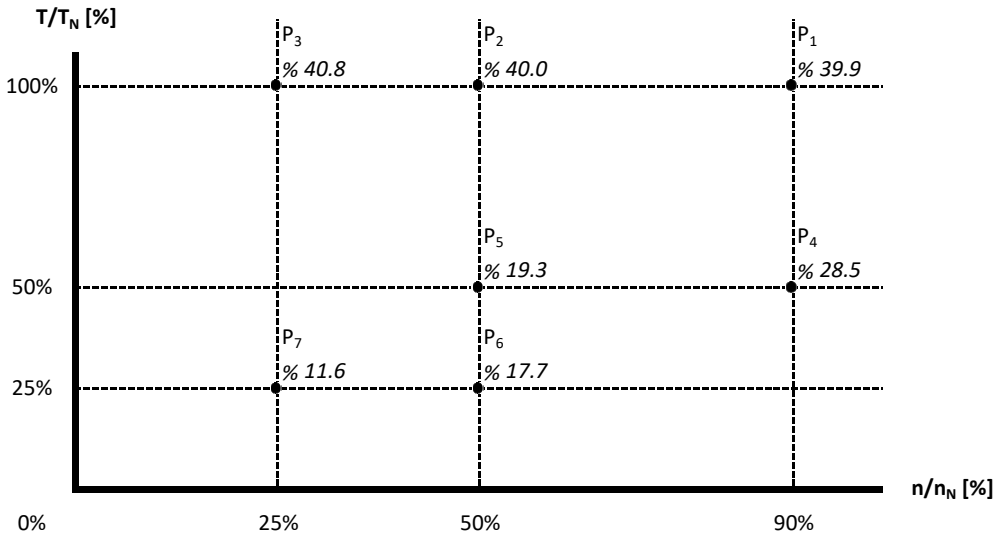
NAMEPLATE DATA

Power [kW]	: 0.37	Nominal Speed [rpm]	: 925
Nominal Voltage [V]	: 400	Nominal Current [A]	: 1.08
Connection Type [Δ / Y]	: Y	Nominal Moment [Nm]	: 3.81
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 71.4

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	39.9	69.3
P_2	50	100	40.0	55.6
P_3	25	100	40.8	38.2
P_4	90	50	28.5	61.3
P_5	50	50	19.3	56.6
P_6	50	25	17.7	41.3
P_7	25	25	11.6	34.9

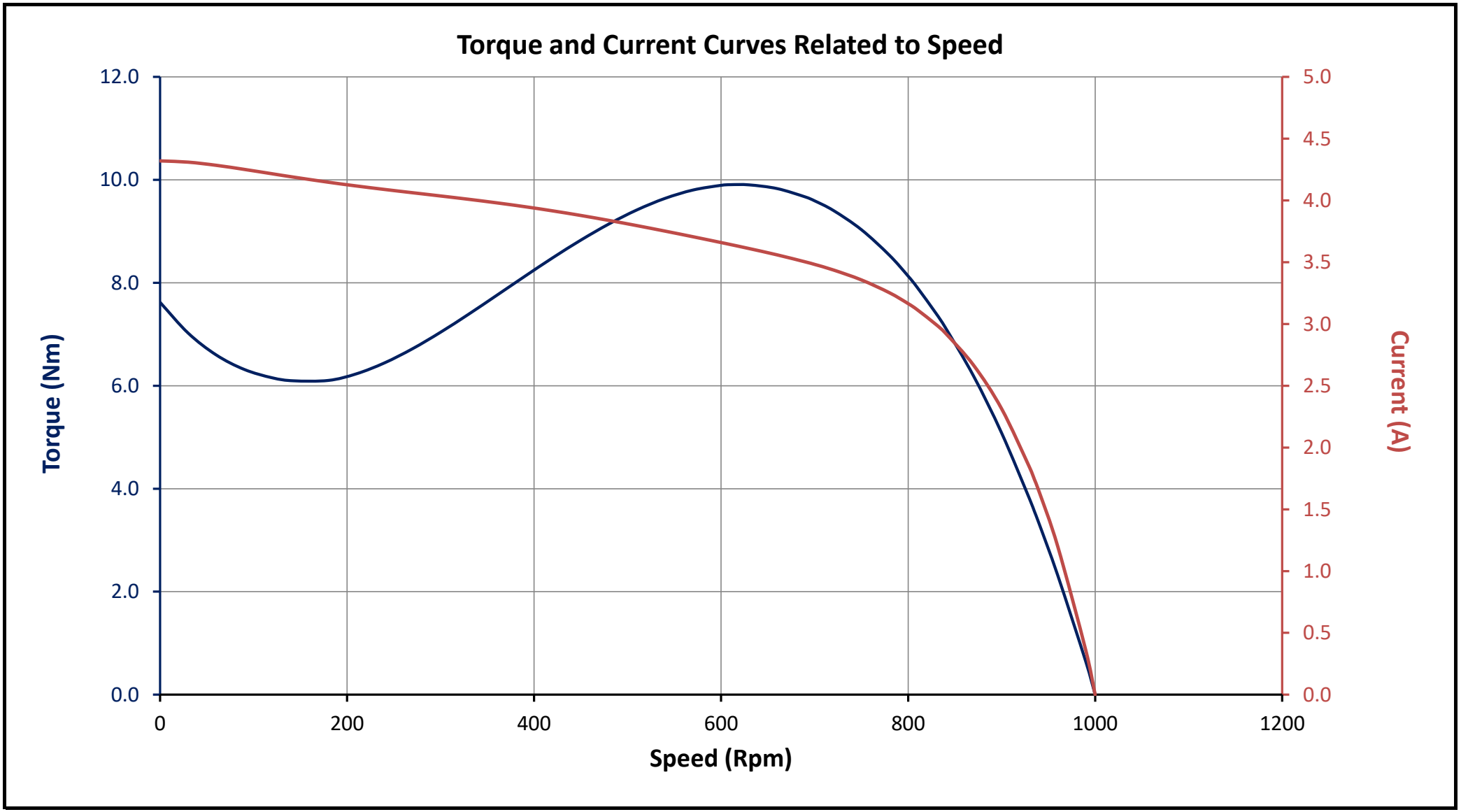
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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