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

DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EG225S6C-FA-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	: 225S
Pole Number	: 6	Weight [kg]	: 326
Nominal Speed [rpm]	: 985	Insulation Class	: F [155°C]
Nominal Current [A]	: 57.6	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 291	Protection Class	: IP55
Nominal Efficiency [η]	: 92.9	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.81	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 6.6	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.9	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.7	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	985	57.6	92.9	92.9	92.6	0.81	IE3
Y	690	50	30.0	985	33.3	92.9	92.9	92.6	0.81	IE3
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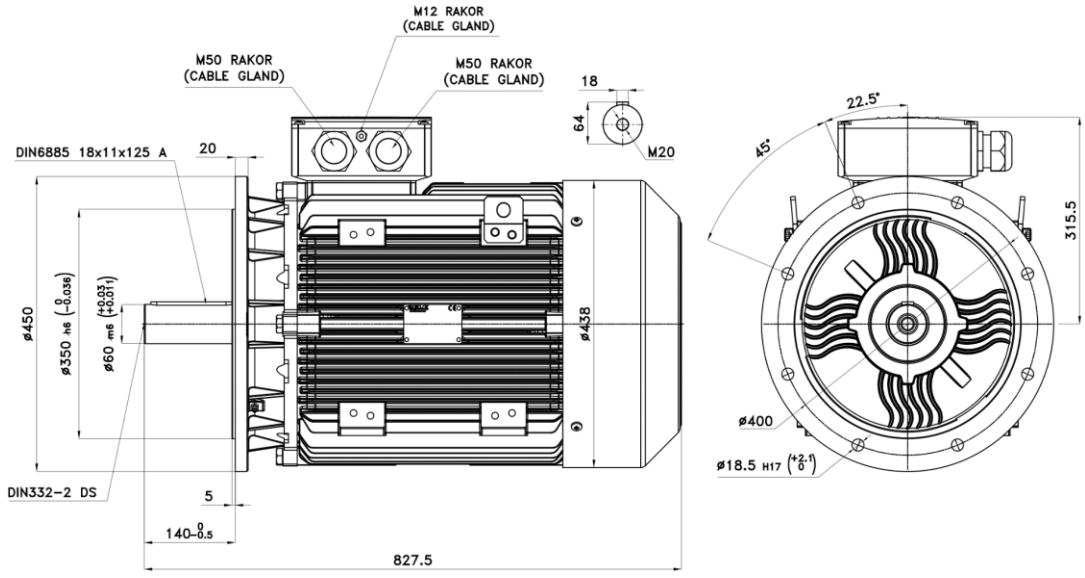
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.60000
Bearing [DS / NS]	: 6313ZZ C3 / 6213ZZ C3
Frame Material	: Cast Iron
Flange Type / Material	: B5 / Cast Iron
Cooling Fan Material	: Plastic
End Shield Material	: Cast Iron

TERMINAL BOX

Terminal Box Material	: Cast Iron
Terminal Box Position	: Top
Terminal Box Cable Entry	: M12x1.5+2xM50x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M8

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 : 3EG225S6C-FA-BA-000 **Date** : 01.06.2024

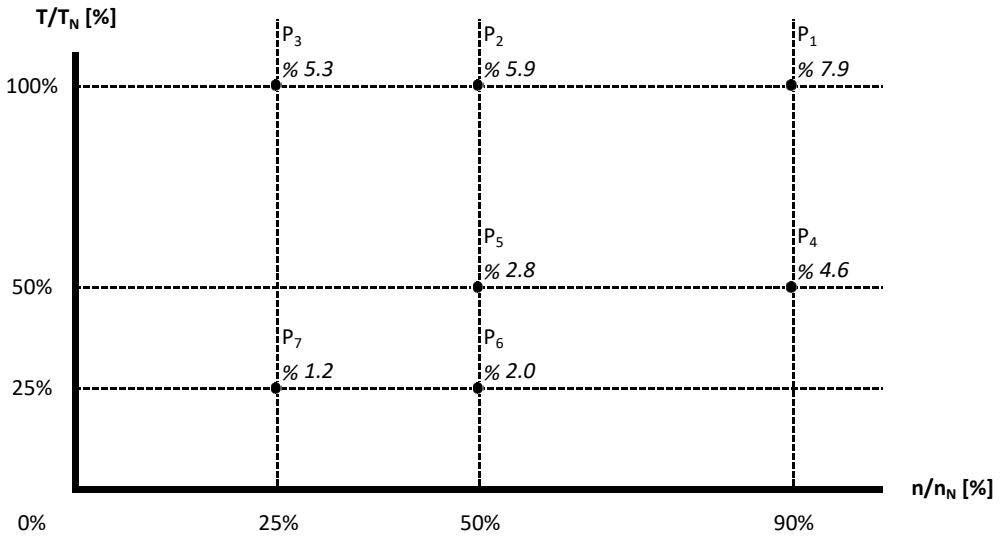
NAMEPLATE DATA

Power [kW]	: 30.0	Nominal Speed [rpm]	: 985
Nominal Voltage [V]	: 400	Nominal Current [A]	: 57.6
Connection Type [Δ / Y]	: Δ	Nominal Moment [Nm]	: 291
Nominal Frequency [Hz]	: 50	Nominal Efficiency [η%]	: 92.9

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	7.9	91.9
P_2	50	100	5.9	89.4
P_3	25	100	5.3	82.6
P_4	90	50	4.6	90.7
P_5	50	50	2.8	89.9
P_6	50	25	2.0	86.4
P_7	25	25	1.2	83.8

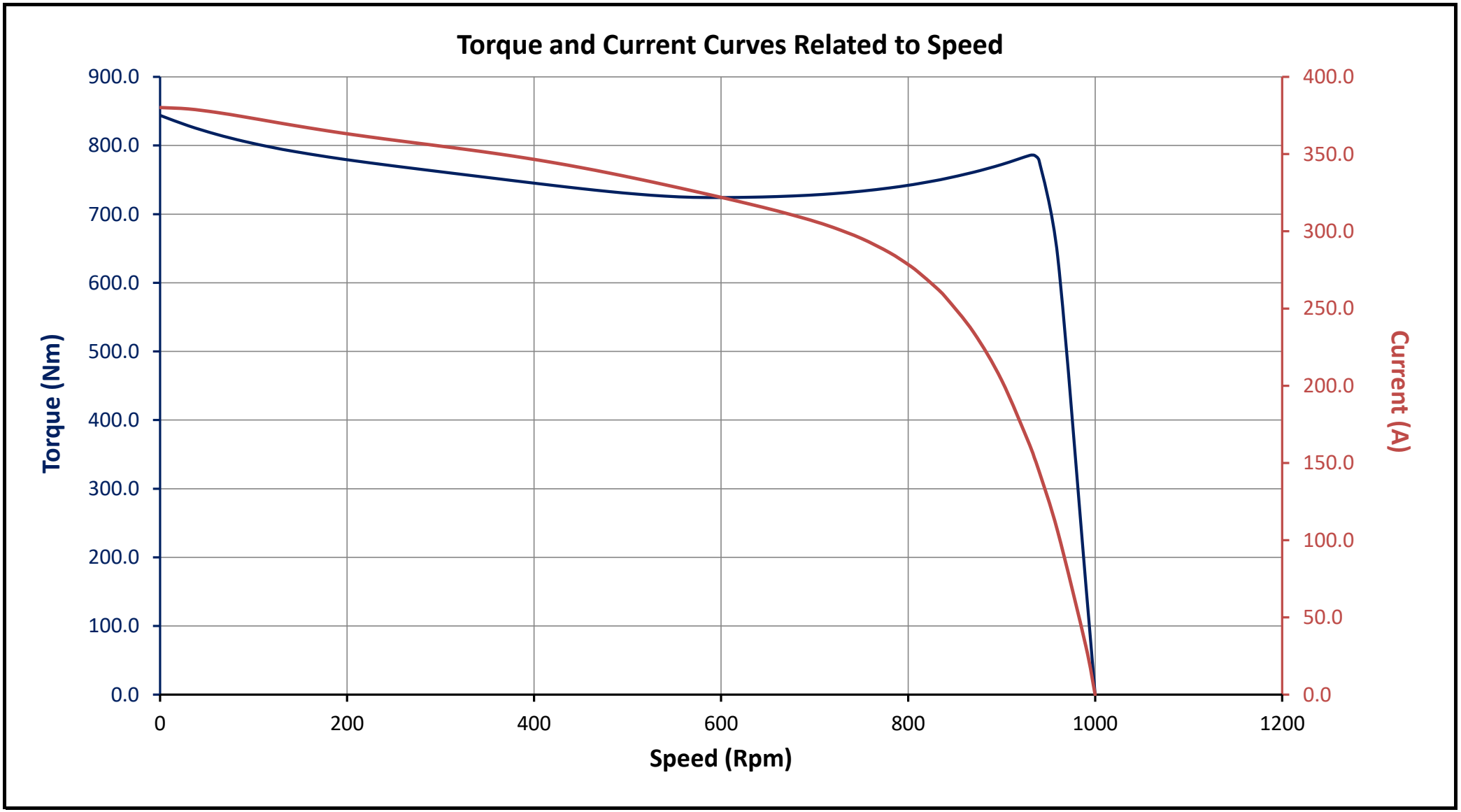
MAP OF RELATIVE POWER LOSSES P_L/P_N [%]



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Motor Code : 3EG225S6C-FA-BA-000



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