

Type : 2EL063M4C-PA-A0-000

Date : 01.01.2023

Power [kW]	: 0.18
Input Voltage [V]	: 400
Connection Type [ $\Delta$ / Y]	: Y
Frequency [Hz]	: 50
Pole Number	: 4
Nominal Speed [rpm]	: 1400
Nominal Current [A]	: 0.56
Nominal Moment [Nm]	: 1.23
Nominal Efficiency [ $\eta$ ]	: 64.7
Power Factor [ $\cos\phi$ ]	: 0.71
Locked Rotor Current [ $I_a/I_n$ ]	: 3.0
Locked Rotor Torque [ $M_a/M_n$ ]	: 2.1
Breakdown Torque [ $M_k/M_n$ ]	: 2.3
Motor Color	: RAL 7031
Ambient Temperature	: -15°C / +40°C

Efficiency Class	: IE2
Duty Cycle	: S1
Service Factor	: 1.15
Frame Size	: 063M
Weight [kg]	: 4.40
Insulation Class	: F [155°C]
Temperature Rise	: B [80°K]
Protection Class	: IP55
Vibration Severity Grade	: A
Method of Cooling	: IC411 (TEFC)
Direction of Rotation	: Bidirectional
Balance	: Half Key
Motor Thermal Protection	: --
Altitude Above Sea Level	: 1000m
Sound Pressure Level [dBA]	: 42

### ELECTRICAL DATA

$\Delta$ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	$\eta$ [%100]	$\eta$ [%75]	$\eta$ [%50]	Cos $\phi$	Cl
$\Delta$	230	50	0.18	1400	0.97	64.7	65.8	61.5	0.71	IE2
Y	400	50	0.18	1400	0.56	64.7	65.8	61.5	0.71	IE2
Y	460	60	0.18	1710	0.50	68.0	68.6	64.3	0.66	IE2
Y	460	60	0.21	1700	0.54	68.0	69.1	64.8	0.71	IE2

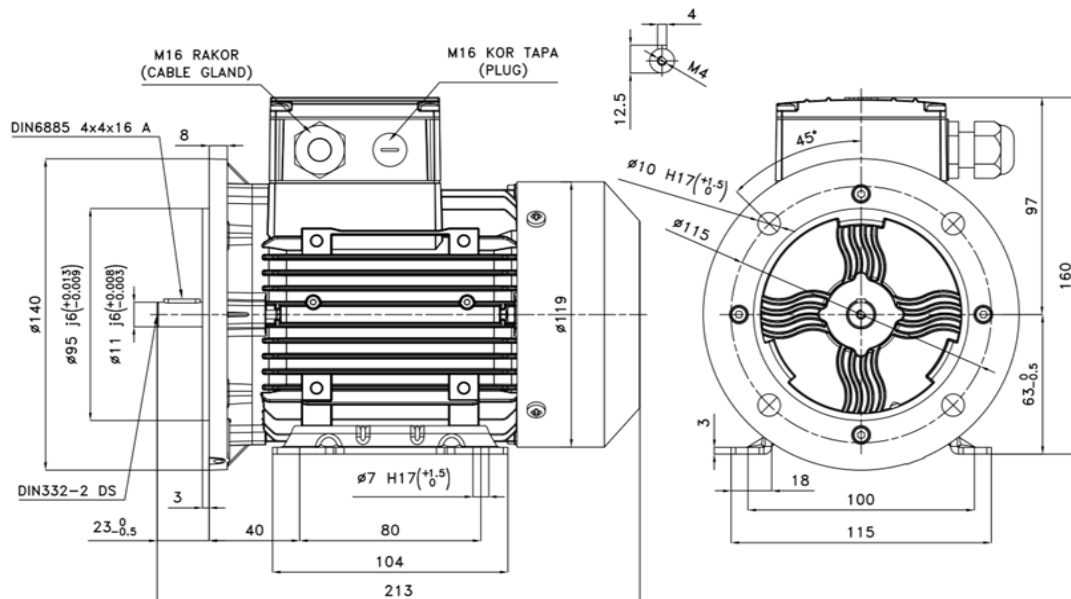
### MECHANICAL DATA

Moment of Inertia [kgm <sup>2</sup> ]	: 0.00022
Bearing [DS / NS]	: 6201ZZ / 6201ZZ
Frame Material	: Aluminum
Flange Type / Material	: B5 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

### TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M16x1.5
Terminal Box Blind Cap	: M16x1.5
Contact Screw Thread	: M4

### MECHANICAL DIMENSIONS





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

Type : 2EL063M4C-PA-A0-000

Date : 01.01.2023

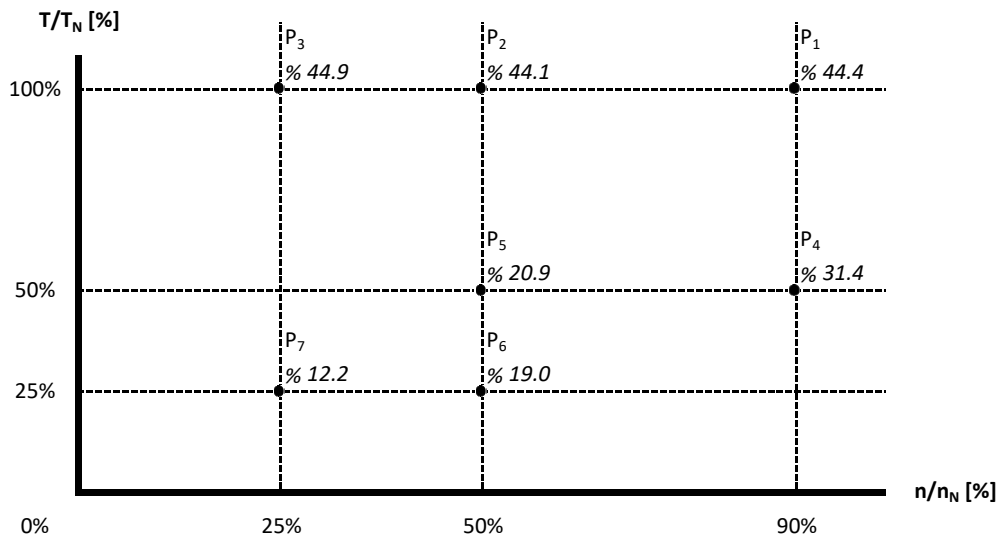
### NAMEPLATE DATA

Power [kW]	: 0.18	Nominal Speed [rpm]	: 1400
Nominal Voltage [V]	: 400	Nominal Current [A]	: 0.56
Connection Type [ $\Delta$ / Y]	: Y	Nominal Moment [Nm]	: 1.23
Nominal Frequency [Hz]	: 50	Nominal Efficiency [ $\eta$ %]	: 64.7

### 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 $\eta$ [%]
P <sub>1</sub>	90	100	44.4	66.9
P <sub>2</sub>	50	100	44.1	53.1
P <sub>3</sub>	25	100	44.9	35.8
P <sub>4</sub>	90	50	31.4	58.9
P <sub>5</sub>	50	50	20.9	54.4
P <sub>6</sub>	50	25	19.0	40.2
P <sub>7</sub>	25	25	12.2	33.3

### MAP OF RELATIVE POWER LOSSES $P_L/P_N$ [%]



Manufactured and tested in accordance with IEC 60034

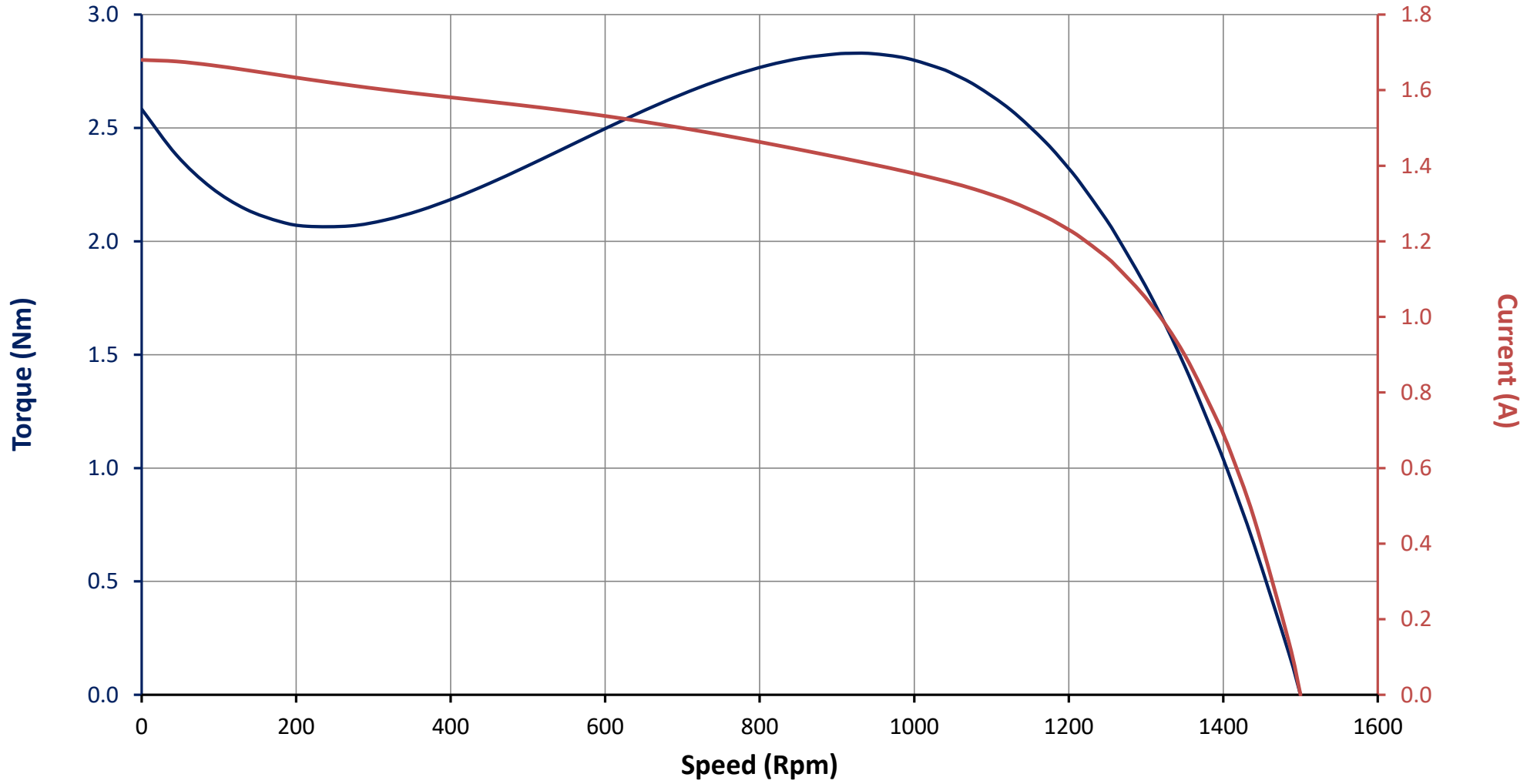
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

\*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.

Motor Code : 2EL063M4C-PA-A0-000

### Torque and Current Curves Related to Speed



Motor Code : 2EL063M4C-PA-A0-000

### Performance Curves Related to Rated Output

