

Type : 4EG315L2F-PA-BA-000

Date : 01.01.2023

Power [kW]	: 200	Efficiency Class	: IE4
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [ $\Delta$ / Y]	: $\Delta$	Service Factor	: 1.25
Frequency [Hz]	: 50	Frame Size	: 315L
Pole Number	: 2	Weight [kg]	: 1340
Nominal Speed [rpm]	: 2987	Insulation Class	: F [155°C]
Nominal Current [A]	: 329	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 639	Protection Class	: IP55
Nominal Efficiency [ $\eta$ ]	: 96.5	Vibration Severity Grade	: A
Power Factor [ $\cos\phi$ ]	: 0.91	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [ $I_a/I_n$ ]	: 8.1	Direction of Rotation	: Bidirectional
Locked Rotor Torque [ $M_a/M_n$ ]	: 2.9	Balance	: Half Key
Breakdown Torque [ $M_k/M_n$ ]	: 3.5	Motor Thermal Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 78

### ELECTRICAL DATA

$\Delta$ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	$\eta$ [%100]	$\eta$ [%75]	$\eta$ [%50]	Cos $\phi$	Cl
$\Delta$	400	50	200	2987	332	96.5	96.7	96.3	0.90	IE4
Y	690	50	200	2987	192	96.5	96.7	96.3	0.90	IE4
$\Delta$	460	60	200	3591	290	96.2	96.4	96.0	0.90	IE4
$\Delta$	460	60	232	3590	332	96.2	96.5	96.1	0.91	IE4

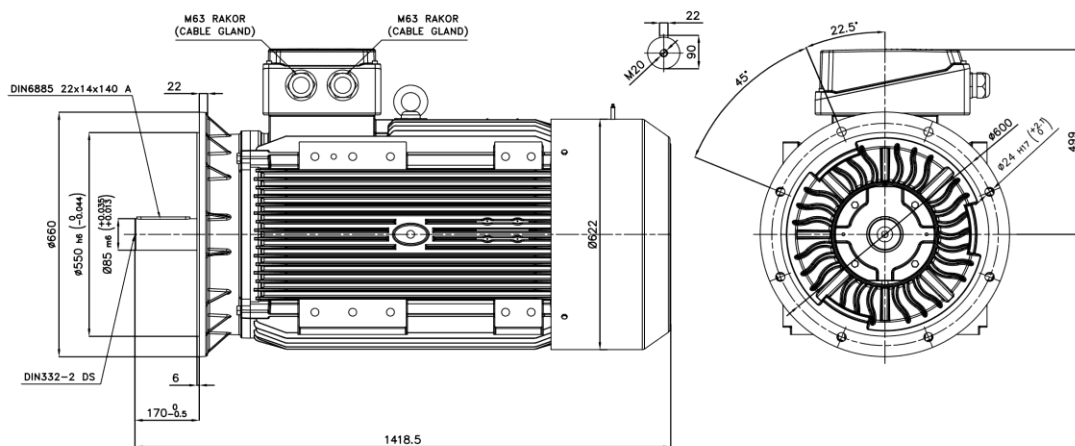
### MECHANICAL DATA

Moment of Inertia [kgm <sup>2</sup> ]	: 2.70000
Bearing [DS / NS]	: 6316 / 6316
Frame Material	: Cast Iron
Flange Type / Material	: B5 / Cast Iron
Cooling Fan Material	: Plastic
End Shield Material	: Cast Iron
Lubrication of Bearings [DS / NS]	: 2900h-33gr / 2900h-33gr MOBIL Polyrex EM

### TERMINAL BOX

Terminal Box Material	: Cast Iron
Terminal Box Position	: Top
Terminal Box Cable Entry	: 2xM63x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M16

### 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.

\*ELK Motor has right to change all the data without prior notice.

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 : 4EG315L2F-PA-BA-000

Date : 01.01.2023

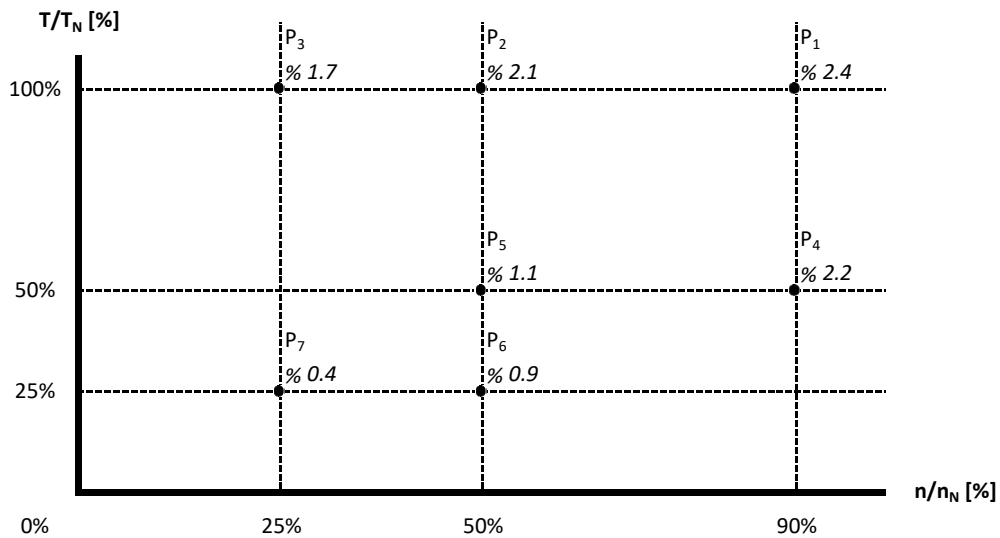
### NAMEPLATE DATA

Power [kW]	: 200	Nominal Speed [rpm]	: 2987
Nominal Voltage [V]	: 400	Nominal Current [A]	: 329
Connection Type [ $\Delta$ / Y]	: $\Delta$	Nominal Moment [Nm]	: 639
Nominal Frequency [Hz]	: 50	Nominal Efficiency [ $\eta$ %]	: 96.5

### 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	2.4	96.1
P <sub>2</sub>	50	100	2.1	96.0
P <sub>3</sub>	25	100	1.7	93.6
P <sub>4</sub>	90	50	2.2	95.3
P <sub>5</sub>	50	50	1.1	95.7
P <sub>6</sub>	50	25	0.9	93.4
P <sub>7</sub>	25	25	0.4	93.6

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



Manufactured and tested in accordance with IEC 60034

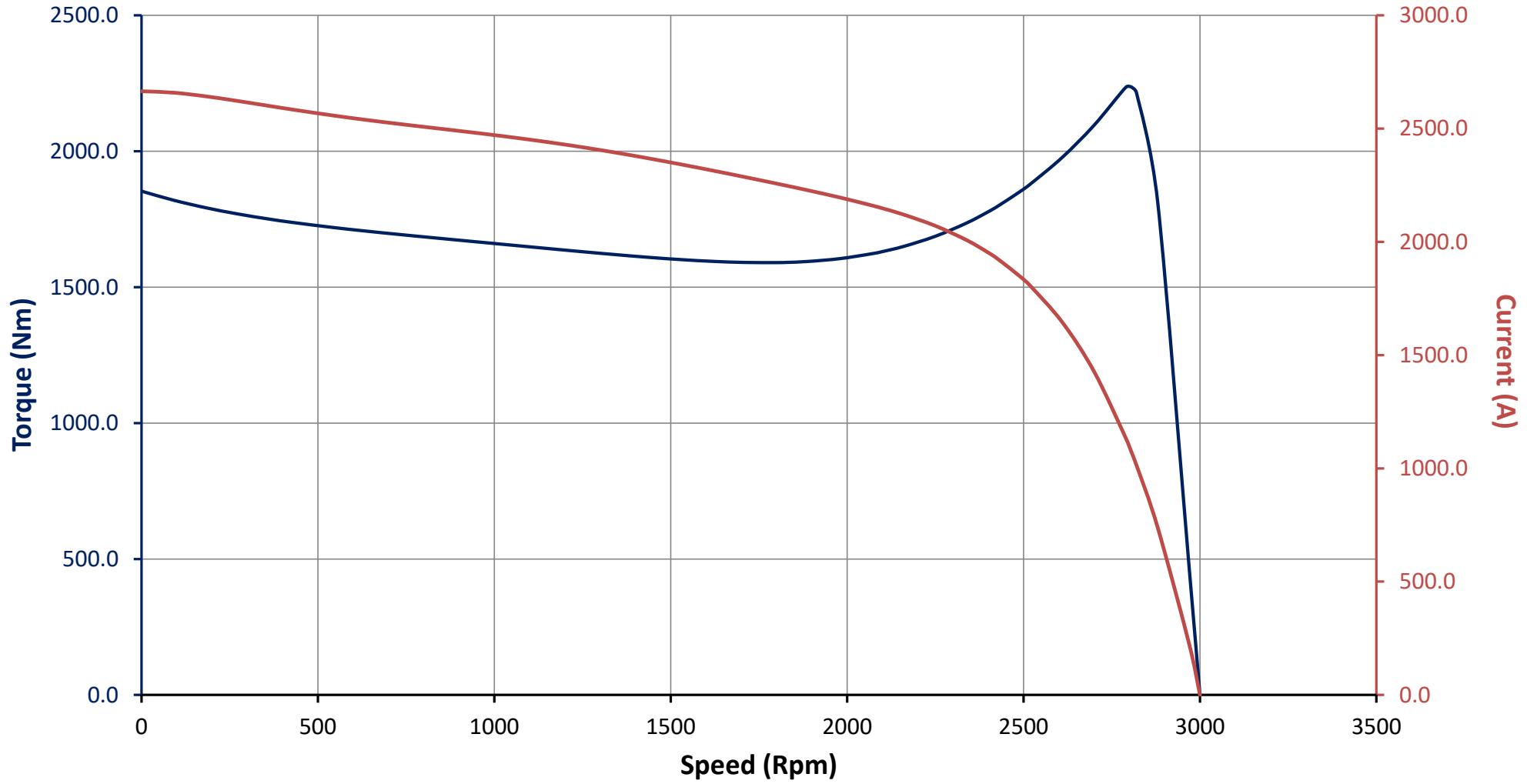
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Motor Code : 4EG315L2F-PA-BA-000

### Torque and Current Curves Related to Speed



Motor Code : 4EG315L2F-PA-BA-000

### Performance Curves Related to Rated Output

