

Type : 3EG200L4D-PA-BA-000

Date : 01.01.2023

Power [kW]	: 30.0	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [ $\Delta$ / Y]	: $\Delta$	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 200L
Pole Number	: 4	Weight [kg]	: 254
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 [ $\eta$ ]	: 93.6	Vibration Severity Grade	: A
Power Factor [ $\cos\phi$ ]	: 0.85	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [ $I_a/I_n$ ]	: 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

$\Delta$ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	$\eta$ [%100]	$\eta$ [%75]	$\eta$ [%50]	Cos $\phi$	Cl
$\Delta$	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
$\Delta$	460	60	30.0	1780	47.2	94.1	93.9	93.3	0.85	IE3
$\Delta$	460	60	34.8	1775	54.1	94.5	94.7	94.4	0.86	IE3

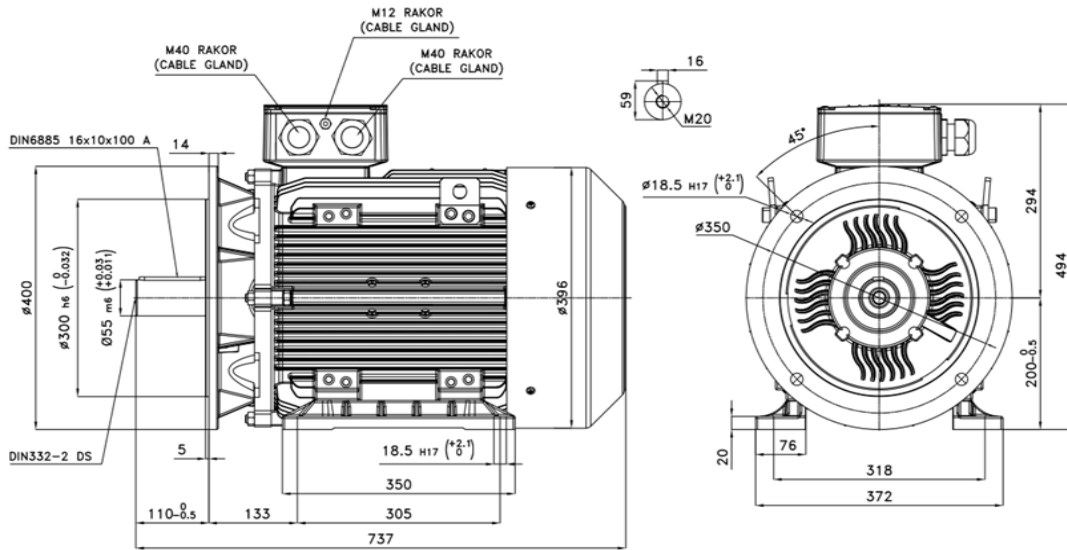
### MECHANICAL DATA

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

### 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 : 3EG200L4D-PA-BA-000

Date : 01.01.2023

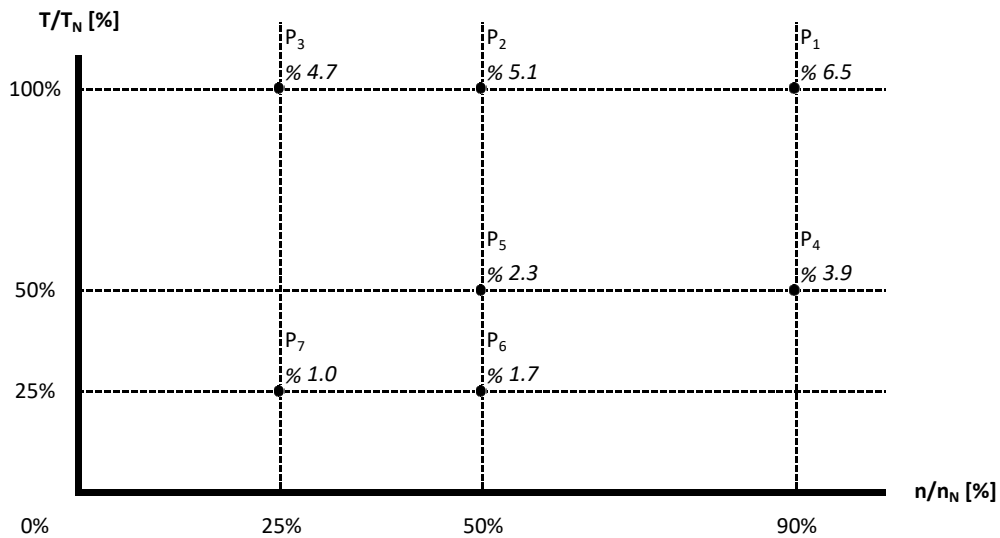
### NAMEPLATE DATA

Power [kW]	: 30.0	Nominal Speed [rpm]	: 1475
Nominal Voltage [V]	: 400	Nominal Current [A]	: 54.5
Connection Type [ $\Delta$ / Y]	: $\Delta$	Nominal Moment [Nm]	: 194
Nominal Frequency [Hz]	: 50	Nominal Efficiency [ $\eta$ %]	: 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 $\eta$ [%]
P <sub>1</sub>	90	100	6.5	93.3
P <sub>2</sub>	50	100	5.1	90.8
P <sub>3</sub>	25	100	4.7	84.1
P <sub>4</sub>	90	50	3.9	92.1
P <sub>5</sub>	50	50	2.3	91.4
P <sub>6</sub>	50	25	1.7	88.2
P <sub>7</sub>	25	25	1.0	86.3

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



Manufactured and tested in accordance with IEC 60034

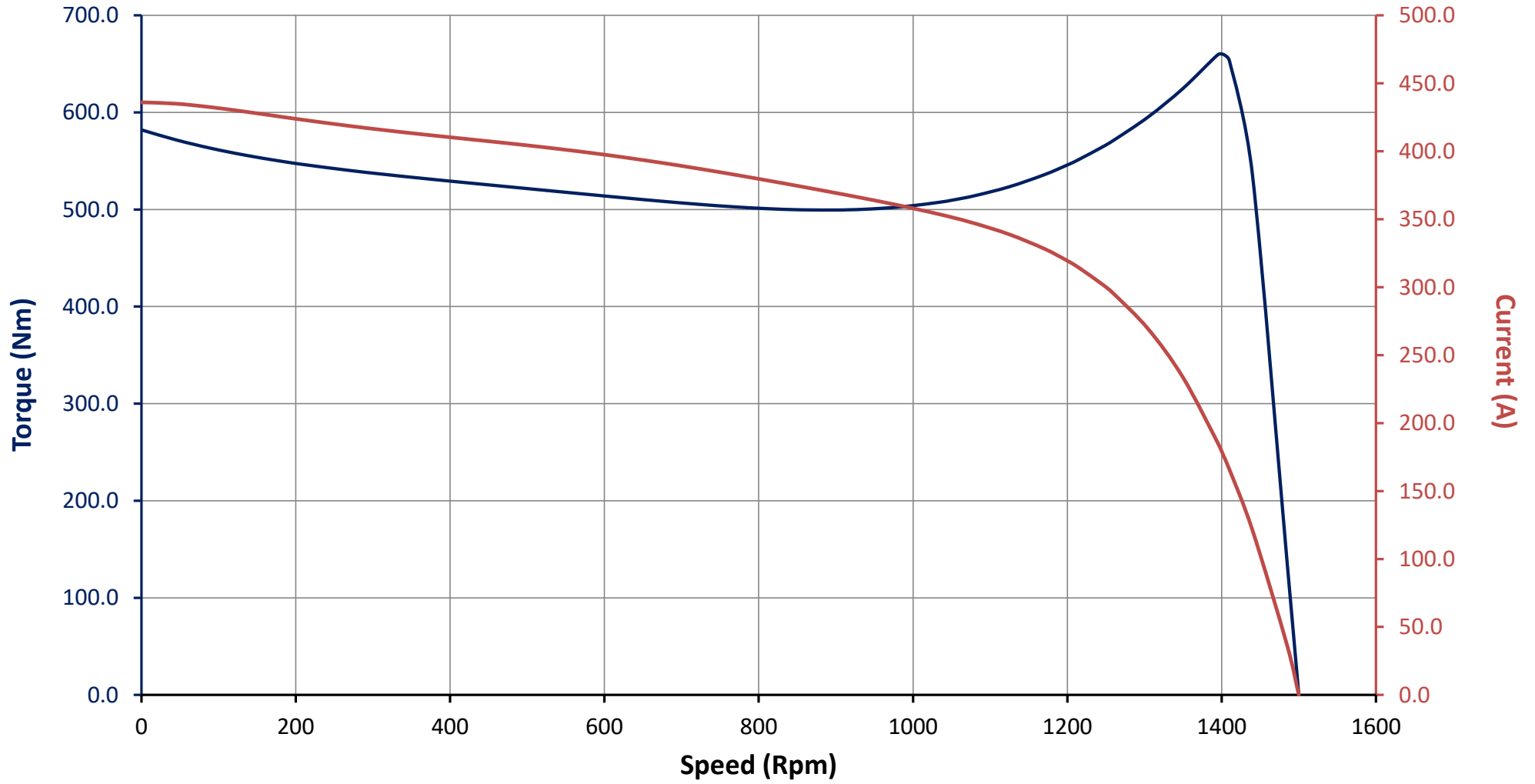
FR.AG.010 REV.NO: 04 REV.DATE: 01.01.2023

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Motor Code : 3EG200L4D-PA-BA-000

Torque and Current Curves Related to Speed



Motor Code : 3EG200L4D-PA-BA-000

### Performance Curves Related to Rated Output

