ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE3

Type : 3EL100L4D-FC-A0-000 **Date** : 03.01.2022

Power [kW]	: 3.00	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Y	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 100L
Pole Number	: 4	Weight [kg]	: 26.7
Nominal Speed [rpm]	: 1450	Insulation Class	: F [155°C]
Nominal Current [A]	: 6.26	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 19.8	Protection Class	: IP55
Nominal Efficiency [η]	: 87.7	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.79	Method of Cooling	: IC411
Locked Rotor Current [Ia/In]	: 7.2	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.8	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 3.6	Motor Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 53

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%]	Cosφ
Δ	230	50	3.00	1450	10.8	87.7	0.79
Y	400	50	3.00	1450	6.26	87.7	0.79
Y	460	60	3.48	1750	6.10	89.5	0.80

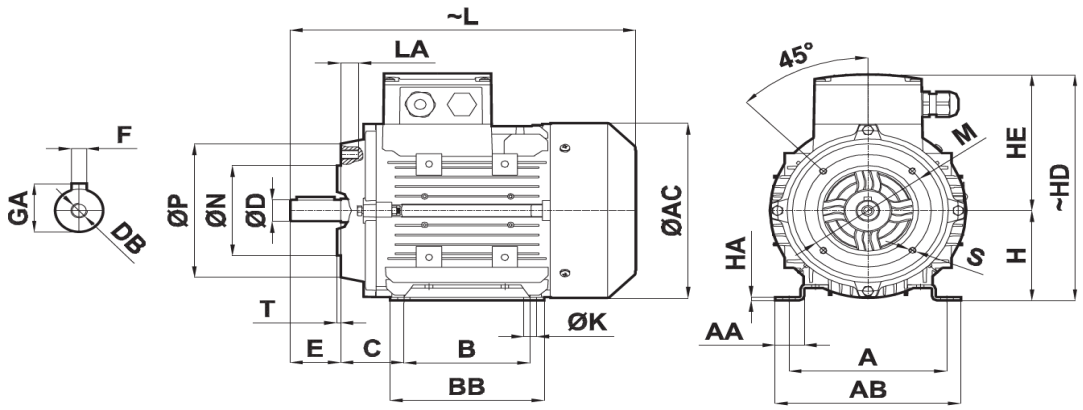
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00888
Bearing DS / NS	: 6206ZZ / 6206ZZ
Frame Material	: Aluminum
Flange Type / Material	: B14 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M25x1.5
Terminal Box Blind Cap	: M25x1.5
Contact Screw Thread	: M5

MECHANICAL DIMENSIONS



FLANGE TYPE	D	N	P	E	T	LA	L	AC	S	M	H	HE	HD	F	GA	DB	C	ØK	B	BB	HA	AA	A	AB
B14	28	110	159.5	60	3.5	17	370.5	193	M8	130	100	149	249	8	31	M10	63	12	140	170	4	31	160	192

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.