

Type : 3EL160L2D-PA-BA-000**Date** : 03.01.2022

Power [kW]	: 18.5	Efficiency Class	: IE3
Input Voltage [V]	: 400	Duty Cycle	: S1
Connection Type [Δ / Y]	: Δ	Service Factor	: 1.20
Frequency [Hz]	: 50	Frame Size	: 160L
Pole Number	: 2	Weight [kg]	: 96.8
Nominal Speed [rpm]	: 2945	Insulation Class	: F [155°C]
Nominal Current [A]	: 31.7	Temperature Rise	: B [80°K]
Nominal Moment [Nm]	: 60.0	Protection Class	: IP55
Nominal Efficiency [η]	: 92.4	Vibration Severity Grade	: A
Power Factor [$\cos\phi$]	: 0.91	Method of Cooling	: IC411
Locked Rotor Current [I_a/I_n]	: 8.9	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 3.1	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 4.2	Motor Protection	: PTC
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 69

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%]	cos ϕ
Δ	400	50	18.5	2945	31.7	92.4	0.91
Y	690	50	18.5	2945	18.3	92.4	0.91
Δ	460	60	21.5	3535	31.6	92.6	0.92

MECHANICAL DATA

Moment of Inertia [kgm ²]	: 0.04409
Bearing DS / NS	: 6309ZZ / 6209ZZ
Frame Material	: Aluminum
Flange Type / Material	: B35 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: 2xM32x1.5
Terminal Box Blind Cap	: --
Contact Screw Thread	: M6

MECHANICAL DIMENSIONS

FLANGE TYPE	D	E	N	P	T	LA	L	AC	S	M	H	HE	HD	F	GA	DB	C	ØK	B	BB	HA	AA	A	AB
B35	42	110	250	350	5	20	605	316	18.5	300	160	224	384	12	45	M16	108	14.5	254	323	15	65	254	295

Manufactured and tested in accordance with IEC 60034

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*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.