ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

THREE PHASE INDUCTION MOTOR - SQUIRREL CAGE

Type : AEL080M4D-PD-A0-000 **Date** : 01.06.2024

Power [kW]	: 1.20	Efficiency Class	: --
Input Voltage [V]	: 400	Duty Cycle	: S3-%75
Connection Type [Δ / Y]	: Y	Service Factor	: --
Frequency [Hz]	: 50	Frame Size	: 080M
Pole Number	: 4	Weight [kg]	: 11.9
Nominal Speed [rpm]	: 1420	Insulation Class	: F [155°C]
Nominal Current [A]	: 2.91	Temperature Rise	: F [105°K]
Nominal Moment [Nm]	: 8.06	Protection Class	: IP55
Nominal Efficiency [η]	: 79.4	Vibration Severity Grade	: A
Power Factor [cosφ]	: 0.75	Method of Cooling	: IC411 (TEFC)
Locked Rotor Current [Ia/In]	: 4.9	Direction of Rotation	: Bidirectional
Locked Rotor Torque [Ma/Mn]	: 2.0	Balance	: Half Key
Breakdown Torque [Mk/Mn]	: 2.6	Motor Thermal Protection	: --
Motor Color	: RAL 7031	Altitude Above Sea Level	: 1000m
Ambient Temperature	: -15°C / +40°C	Sound Pressure Level [dBA]	: 51

ELECTRICAL DATA

Δ / Y	U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	η [%100]	η [%75]	η [%50]	Cosφ	Cl
Δ	230	50	1.20	1420	5.04	79.4	77.3	75.0	0.75	--
Y	400	50	1.20	1420	2.91	79.4	77.3	75.0	0.75	--
Y	460	60	1.39	1715	2.84	81.2	78.1	75.8	0.76	--

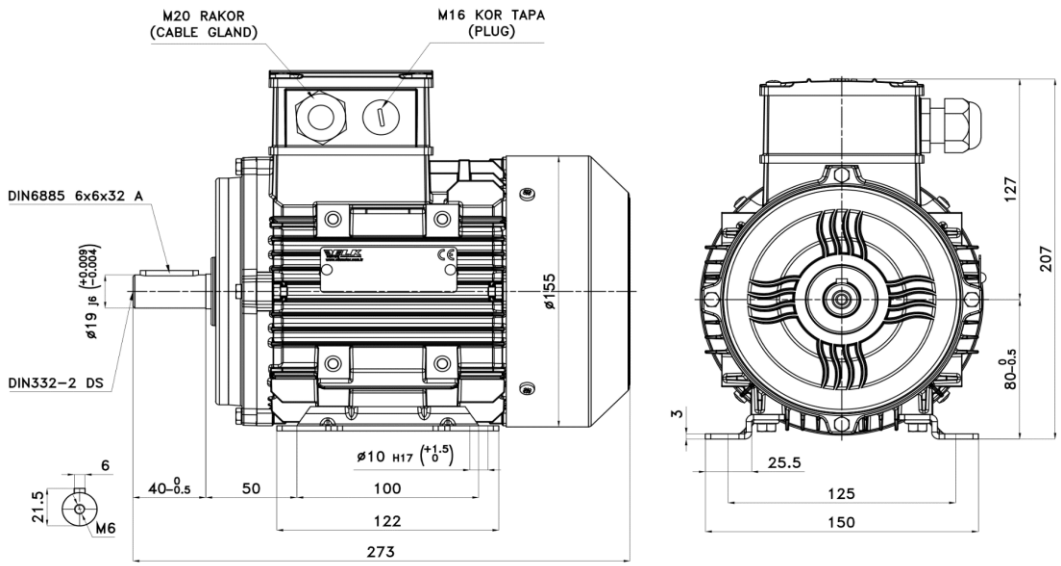
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00227
Bearing [DS / NS]	: 6204ZZ C3 / 6204ZZ C3
Frame Material	: Aluminum
Flange Type / Material	: B3 / Aluminum
Cooling Fan Material	: Plastic
End Shield Material	: Aluminum

TERMINAL BOX

Terminal Box Material	: Aluminum
Terminal Box Position	: Top
Terminal Box Cable Entry	: M20x1.5
Terminal Box Blind Cap	: M16x1.5
Contact Screw Thread	: M4

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.