ELK MOTOR SAN. ve TİC. A.Ş.
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DATASHEET

SINGLE PHASE INDUCTION MOTOR - SQUIRREL CAGE

IE2

Type : 2MD080M2B-PD-70-000 **Date** : 01.06.2024

Power [kW]	: 0.75	Efficiency Class	: IE2
Input Voltage [V]	: 220	Duty Cycle	: S1
Frequency [Hz]	: 50	Service Factor	: 1.00
Pole Number	: 2	Frame Size	: 080M
Nominal Speed [rpm]	: 2830	Weight [kg]	: 9.90
Nominal Current [A]	: 4.50	Insulation Class	: F [155°C]
Nominal Moment [Nm]	: 2.53	Temperature Rise	: B [80˚K]
Nominal Efficiency [η]	: 77.4	Protection Class	: IP55
Power Factor [cosϕ]	: 0.99	Vibration Severity Grade	: A
Locked Rotor Current [Ia/In]	: 3.80	Method of Cooling	: IC411 (TEFC)
Locked Rotor Torque [Ma/Mn]	: 0.60	Direction of Rotation	: Bidirectional
Breakdown Torque [Mk/Mn]	: 2.00	Balance	: Half Key
Run Capacitor Capacity [µF]	: 30	Motor Thermal Protection	: --
Run Capacitor Voltage [V]	: 400	Altitude Above Sea Level	: 1000m
Start Capacitor Capacity [µF]	: --	Motor Color	: RAL 7031
Start Capacitor Voltage [V]	: --	Ambient Temperature	: -15°C / +40°C

ELECTRICAL DATA

U [V]	f [Hz]	P [kW]	n [rpm]	I [A]	Cosϕ	η [%100]	η [%75]	η [%50]	Cl
220	50	0.75	2830	4.50	0.99	77.4	75.4	68.3	IE2

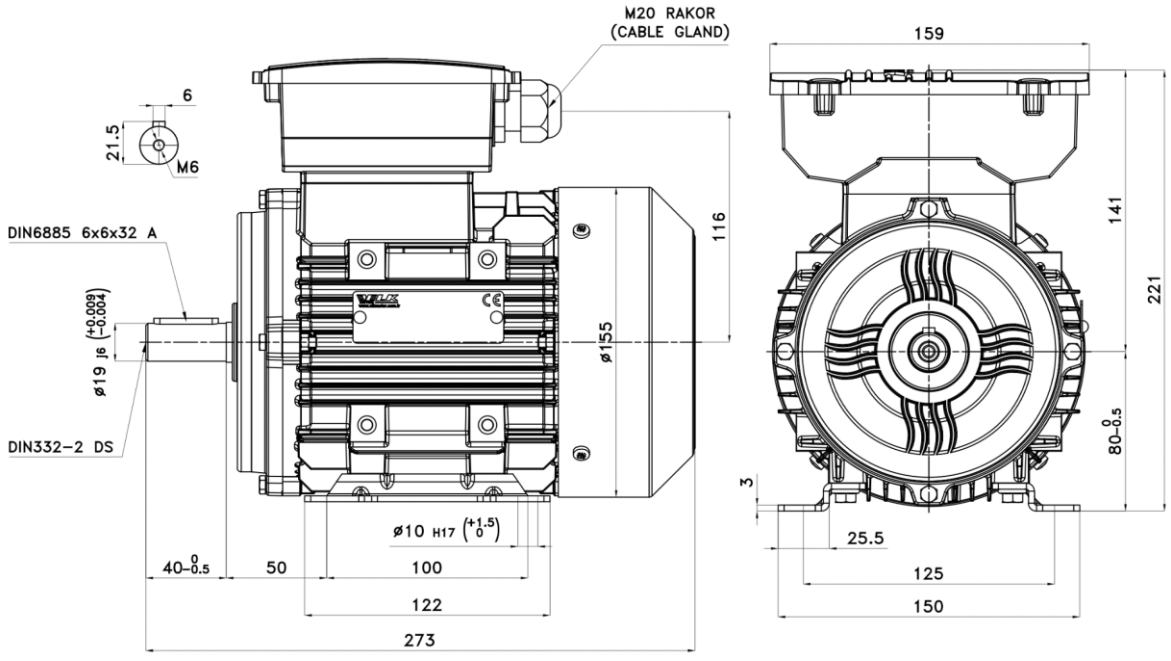
MECHANICAL DATA

Moment of Inertia [kgm^2]	: 0.00094
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
Cable Gland Direction	: Non-Drive Side
Terminal Box Position	: Top
Terminal Box Cable Entry	: M20x1.5
Terminal Box Blind Cap	: --
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.