

PRODUCT INFORMATION PACKET



Model No: 6RN280M06E36U461041

Catalog No: 6RN280M06E36U46@1041

75.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1000 rpm, D400/Y690V 50Hz,
280M Frame B3, IC411



Regal and Rotor nl are trademarks of Regal Rexnord Corporation or one of its affiliated companies.
©2023 Regal Rexnord Corporation, All Rights Reserved. MC017097E





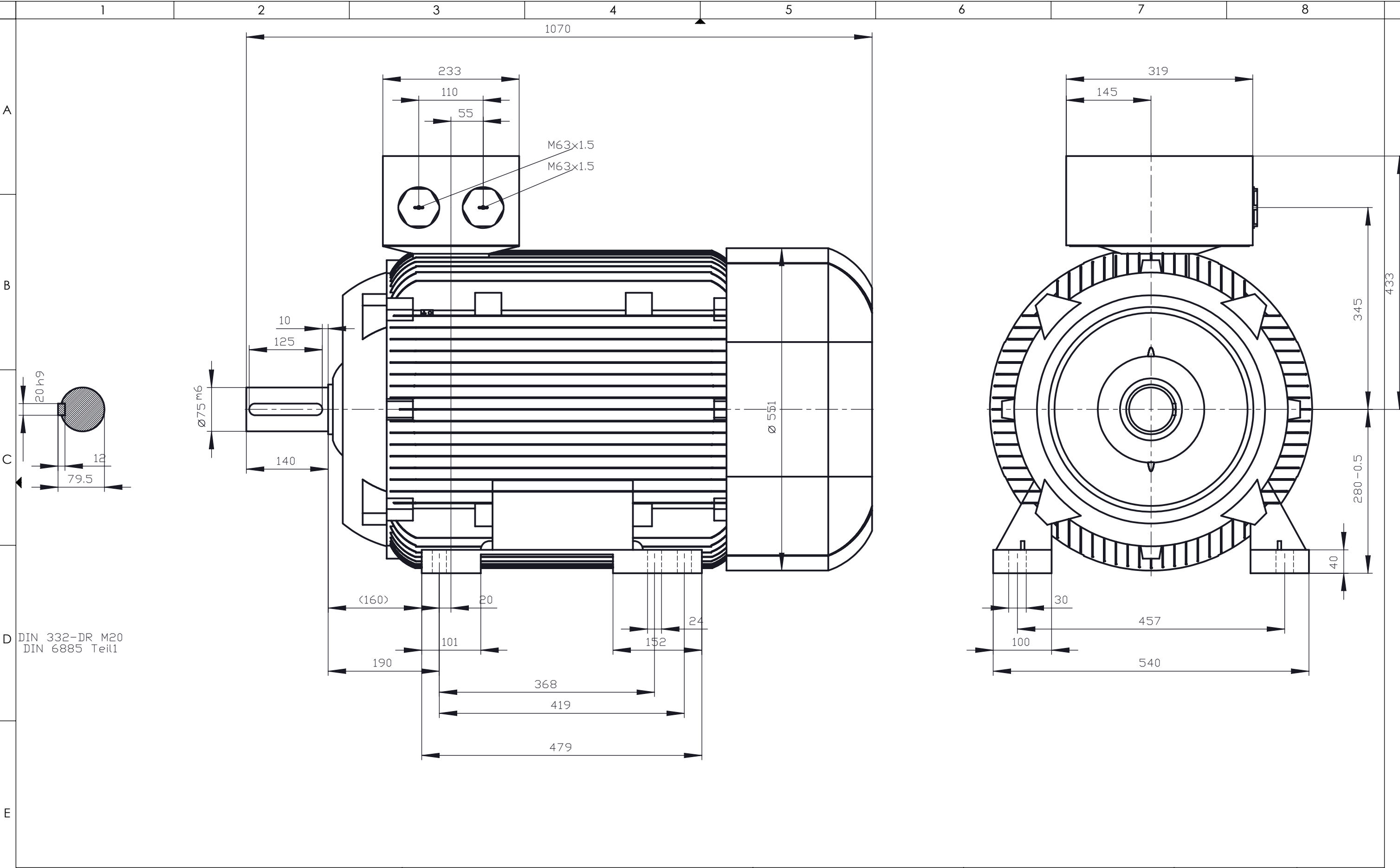
Nameplate Specifications

Output HP	100 Hp	Output KW	75.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	138.00 A	Speed	988 rpm
Service Factor	1	Phase	3
Efficiency	94.6 %	Power Factor	0.83
Duty	S1	Insulation Class	F
Frame	280M	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6317/C3	Opp Drive End Bearing Size	6317/C3
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	1	Efficiency Class	IE3

Technical Specifications

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	6	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN280M06E36U461041		

This is an uncontrolled document once printed or downloaded and is subject to change without notice. Date Created:01/19/2023



DIN 332-DR M20
DIN 6885 Teil1

REVISIONS				
ZONE	REV.	DESCRIPTION	DATE	APPROVED



rotor

Mors 2, P.O.box 45
7150 AA Eibergen nl
Tel:+31(0)545 464640
E-mail:info@rotor.nl

MOTORTYPE: 6RN280M06E36
MOUNTING: IM1001
PROTECTION:
COOLING: IC411
REMARKS:

DIMENSIONS: MM SCALE: 1:6

TITLE: Outline drawing
SPECIAL:
ART. NR.:
REVISION:

PAPER SIZE: A3 PAGE 1 OF 1

DRAWN: TW
CHECKED:
COMPLETE OR PARTIAL
COPYING OR USE OF
SPECIFICATIONS IS
NOT ALLOWED WITHOUT
OUR PERMISSION.
SUBJECT TO ALTERATIONS



Datasheet

rotor nl®

rotor B.V.

Mors 1-5, 7151 MX Eibergen NL
 www.rotor.nl tel.: +31 545 464640
 sales@rotor.nl tel.: +31 545 464646

Model No. 6-Pole cage motor 6RN 280M 75kW D400V 50Hz IM1041

U (V)	Δ / Y Conn	f [Hz]	P [kW]	P [hp]	I [A]	n [RPM]	T [Nm]	IE Class	% EFF at __ load FL 3/4FL 1/2FL	PF at __ load FL 3/4FL 1/2FL	I _A /I _N [pu]	T _A /T _N [pu]	T _K /T _N [pu]
400	D	50	75	100	138	988	725	IE3	94,6	0,83	8,60	3,70	3,30
690	Y				79,6								
460	D	60	90	120	140	1188	723	IE3	95,0	0,85	8,10	3,50	3,00

Motor type	6RN280M06E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	280M
Duty	S1
Voltage	400 V
Frequency	50 Hz
Power output	75 kW
Insulation class	F
Ambient temperature	-20 till 40 °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	1000 mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6317/C3
Lubrication method	30gr/8000hrs
Type of grease	Unirex N3

Country of origin	CZ
-------------------	----

Voltage/Freq	Locked rotor Torque [% nom]	Starting current [% nom]	Pull-up Torque [% nom]	Breakdown Torque [% nom]	No-load Current [A]
@ D 400V 50Hz	370%	855%		330%	
@ D 460V 60Hz	350%	807%		300%	

NOTE

All performance values at rated voltage and frequency.

All performance parameters are subjected to standard tolerance as per IEC 60034-1

Voltage, Frequency are as per IEC60034-1

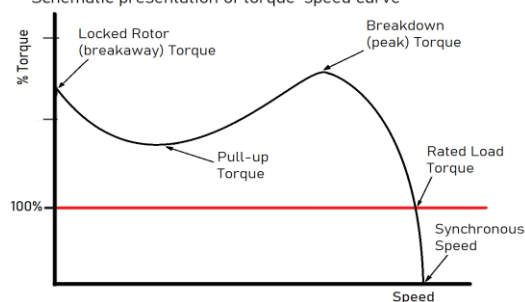
Technical data are subject to change. There may be discrepancies between calculated and name plate values.

Efficiency	Europe	Global IEC
Standards	EN-IEC: 60034-30	IEC: 60034-30

This is an uncontrolled copy, data can be changed anytime.

Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	kg
Gross weight - approx.	kg
Motor inertia	1,9000 kgm ²
Vibration level	according IEC60034-14
Direction of rotation	cw / ccw

Schematic presentation of torque-speed curve



rotor
is a
ISO 9001
certified
company

RegalRexnord™

6RN280M06E36 6-pole 75,00kW D/Y 400/690V 50Hz S1 IC411 IE3



Torque versus Speed curve with variable frequency drive

