## **PRODUCT INFORMATION PACKET**

Model No: 6RN160L04E36U46B2081-Uni Catalog No: 6RN160L04E36U46B@2081-Uni 18.50 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 160L Frame B35, IC411





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# rotor n

#### Nameplate Specifications

Output HP	25 Hp	Output KW	18.5 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	35.50 A	Speed	1475 rpm
Service Factor	1	Phase	3
Efficiency	92.6 %	Power Factor	0.81
Duty	S1	Insulation Class	F
Frame	160L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Thermal Protection Drive End Bearing Size	No Protection 6309-2Z/C3WT (-40°C/+160°C)	Ambient Temperature Opp Drive End Bearing Size	40 °C 6309-2Z/C3WT (-40°C/+160°C)
Drive End Bearing Size	6309-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6309-2Z/C3WT (-40°C/+160°C)

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B35	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Outline Drawing	6RN160L04E36_1041		

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#### Model No. 4-Pole cage motor 6RN 160L 18,5kW D400V 50Hz IM2081-FF300

U	Δ/Υ	f	Р	Ρ	I	n	т	IE	% EI	F at	load	PF	atlo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	$T_{\kappa}/T_{N}$
(V)	Conn	[Hz]	[kW]	[hp]	[A]	[RPM]	[Nm]	Class	FL	3/4FL	1/2FL	FL	3/4FL	1/2FL	[pu]	[pu]	[pu]
400	D	50	18,5	24,5	35,5	1475	120	IE3	92,6	92,9	92,3	0,81	0,77	0,67	7,90	2,90	3,90
690	Y				21												
460	D	60	21,3	28,55	35	1775	115	IE3	93,6	93,8	93,1	0,82	0,79	0,70	8,00	2,80	3,80

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Motor type	6RN160L04E36
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	160L
Duty	S1
Voltage	<b>400</b> V
Frequency	<b>50</b> Hz
Power output	<b>18,5</b> kW
Insulation class	F
Ambient temperature	- <b>20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise surface	
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Degree of protection	IP55
Mounting type	IM2081-FF300
Cooling method	IC411
Motor weight - approx.	<b>132</b> kg
Gross weight - approx.	<b>136</b> kg
Motor inertia	<b>0,1010</b> kgm²

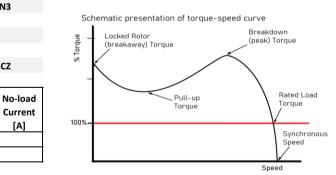
Vibration level

according IEC60034-14

Direction of rotation

cw /ccw

BvD



NOTE

Rotor type

Bearing type

Type of grease

Country of origin

Voltage/Freq

@ D 400V 50Hz

@ D 460V 60Hz

All performance values at rated voltage and frequency.

Locked rotor

nom]

290%

280%

[%

Torque

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

Starting

current

[% nom]

788%

800%

Pull-up

Torque

[% nom]

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	ISO 9001		
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified		
			company		

Cage motor

Unirex N3

Breakdown

Torque

[% nom]

390%

380%

cz

[A]

6309-2Z/C3WT - 6309-2Z/C3WT

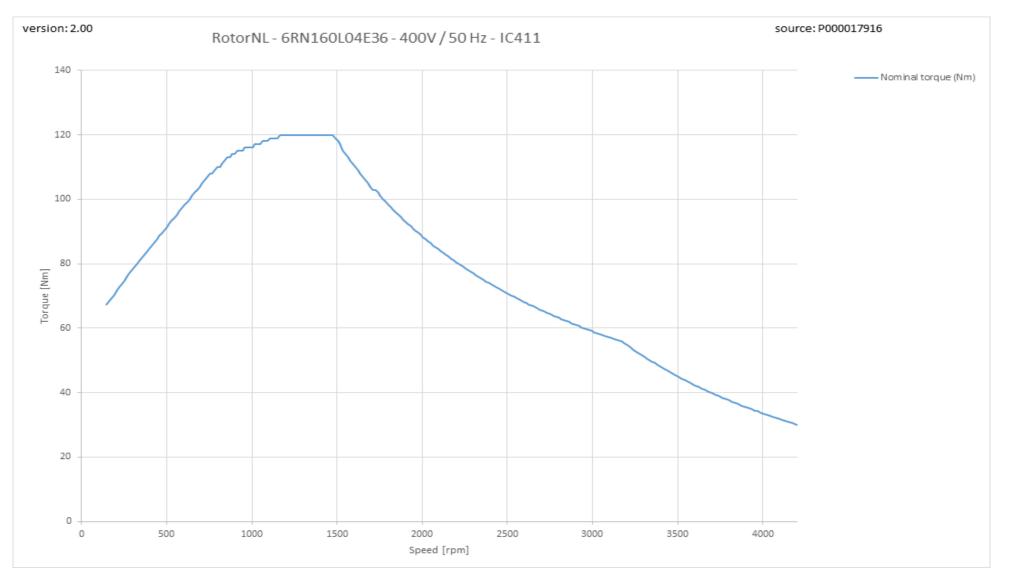
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6RN160L04E36 4-pole 18,50kW D/Y 400/690V 50Hz S1 IC411 IE3



#### Torque versus Speed curve with variable frequency drive



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