## **PRODUCT INFORMATION PACKET**

Model No: 6RN180L04E34U46B1041-Uni Catalog No: 6RN180L04E34U46B@1041-Uni 22.00 kW General Purpose Low Voltage IEC Motor IE3, 3 phase, 1500 rpm, D400/Y690V 50Hz, 180L Frame B3, IC411





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# rotor n

#### Nameplate Specifications

Output HP	30 Hp	Output KW	22.0 kW
Frequency	50 Hz	Voltage	D400/Y690 V
Current	41.48 A	Speed	1470 rpm
Service Factor	1	Phase	3
Efficiency	93 %	Power Factor	0.82
Duty	S1	Insulation Class	F
Frame	180L	Enclosure	Totally Enclosed Fan Cooled
Thermal Protection	No Protection	Ambient Temperature	40 °C
Drive End Bearing Size	6310-2Z/C3WT (-40°C/+160°C)	Opp Drive End Bearing Size	6310-2Z/C3WT (-40°C/+160°C)
UL	No	CSA	Optional
CE	Yes	IP Code	IP55
Number of Speeds	4	Efficiency Class	IE3

### **Technical Specifications**

Electrical Type	Squirrel Cage	Starting Method	Direct On Line
Poles	4	Rotation	Clockwise Shaft End
Mounting	B3	Motor Orientation	Any
Frame Material	Cast iron	Shaft Type	Keyed
Shaft Diameter	48 mm	Shaft Extension	110 mm
Outline Drawing	6RN180L04E34_1041		

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#### Model

Nodel No	o.	4-Pole c	age moto	or 6RN 18	30L 22kW	D400V 50Hz	IM1041											
U	Δ/Υ	f	Р	Р	1	n	т	IE	% EF	Fat	load	PF	atlo	ad	I <sub>A</sub> /I <sub>N</sub>	$T_A/T_N$	T <sub>κ</sub> /T <sub>N</sub>	
(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	22	30	41,4	1470	143	IE3	93,3	93,9	93,9	0,82	0,78	0,68	7,08	2,39	3,25	
690	Y				23,9													
460	D	60	25,3	33,91	40,8	1770	136	IE3	93,6			0,83			7,16	2,30	3,15	

Motor type	6RN180L04E34
Enclosure	Totally Enclosed Fan Cooling
Frame Material	Cast iron
Frame size	180L
Duty	S1
Voltage	<b>400</b> V
Frequency	<b>50</b> Hz
Power output	<b>22</b> kW
Insulation class	F
Ambient temperature	- <b>20 till 40</b> °C
Temperature rise	temp.rise acc. B (80K)
Temperature rise winding	<b>59</b> K
Temperature rise surface	<b>26</b> K
Altitude above sea level	<b>1000</b> mtr
Hazardous area classification	Safe area

Rotor type	Cage motor
Bearing type	6310-2Z/C3WT - 6310-2Z/C3WT

Type of grease	Unirex N3

Phase resistance at 20°C	<b>0,3033</b> Ohm
Country of origin	cz

	Locked rotor Torque   [%	Starting current	Pull-up Torque	Breakdown Torque	No-load Current
Voltage/Freq	nom]	[% nom]	[% nom]	[% nom]	[A]
@ D 400V 50Hz	239%	707%	210%	325%	16,7 A
@ D 460V 60Hz	230%	715%	210%	315%	15.6 A

		e	L
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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 dat	a are subject to change. Th	ere may be discrepancies between calculated and name plate values.	rotor
Efficiency	Europe	Global IEC	ISO 9001
Standards	EN-IEC: 60034-30	IEC: 60034-30	certified
			company

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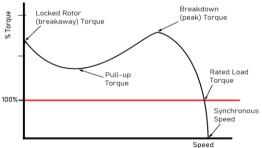
Degree of protection	IP55
Mounting type	IM1041
Cooling method	IC411
Motor weight - approx.	<b>182</b> kg
Gross weight - approx.	<b>187</b> kg
Motor inertia	<b>0,1400</b> kgm <sup>2</sup>
Vibration level	according IEC60034-14
Noise level (pressure) acc 60034-9	<b>57</b> dB(A)

Direction of rotation

cw /ccw

BvD





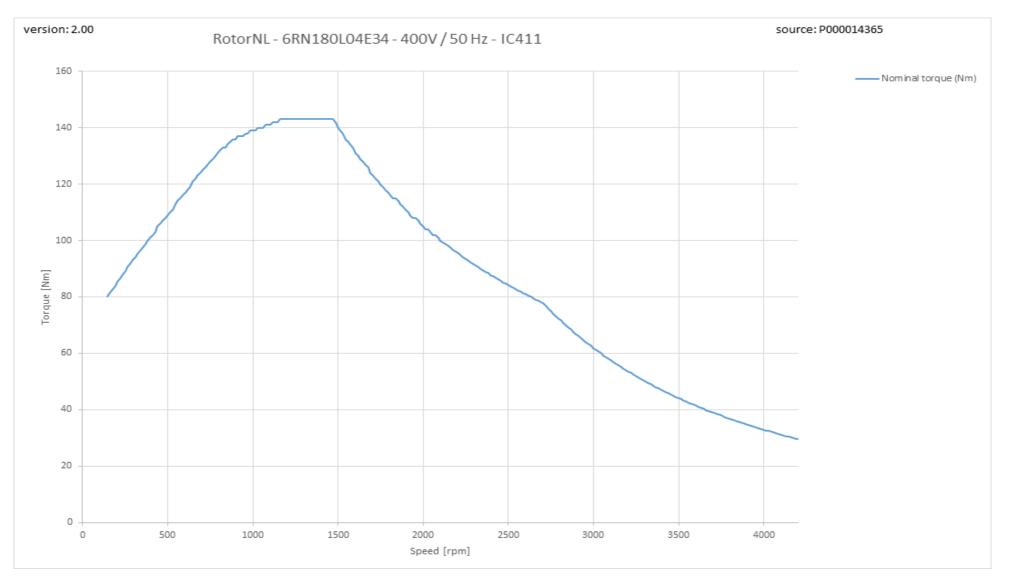


Mors 1-5, 7151 MX Eibergen NL www.rotor.nl tel.: +31 545 464640 sales@rotor.nl tel.: +31 545 464646

#### 6RN180L04E34 4-pole 22,00kW D/Y 400/690V 50Hz S1 IC411 IE3



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



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Therm\_VSD graph

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Tn graph

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