Datasheet

rotor nl

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

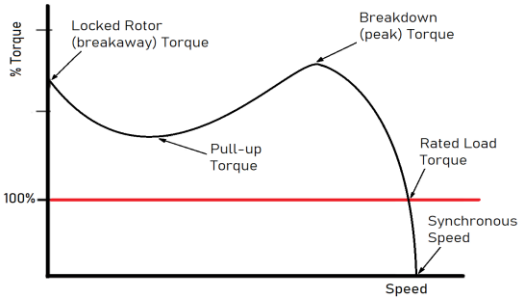
Model No. 4-Pole cage motor 6RN 315S 90kW D440V 60Hz IM3021-FF600

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]
440	D	60	90	120	142	1790	480,2	IE3	95,9			0,87			9,06	2,59	2,82

Motor type	**6RN315S04E30**		Degree of protection	**IP55**	
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM3021-FF600**	
Frame Material	**Cast iron**		Cooling method	**IC411**	
Frame size	**315S**		Motor weight - approx.	**780**	kg
Duty	**S1**		Gross weight - approx.	**800**	kg
Voltage	**440**	V	Motor inertia	**2,2000**	kgm²
Frequency	**60**	Hz			
Power output	**90**	kW	Vibration level	**according IEC60034-14**	
			Noise level (pressure) acc 60034-9	**0**	dB(A)
Insulation class	**F**				
Ambient temperature	**-20 till 40**	°C			
Temperature rise	**temp.rise acc. B**				
Temperature rise winding	**40**	K			
Temperature rise surface	**17**	K	Direction of rotation	**cw /ccw**	
Altitude above sea level	**1000**	mtr			
Hazardous area classification	**Safe area**			**PTC 150°C**	
Te time	0	sec			
Rotor type	**Cage motor**				
Bearing type	**6319/C3**				
Lubrication method	**40gr/6000hrs**				
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 440V 60Hz	259%	901%	210%	282%	50,8 A

Schematic presentation of torque-speed curve



1

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.

P000020222

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

rotor is a ISO 9001 certified company

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