Datasheet

rotor nl

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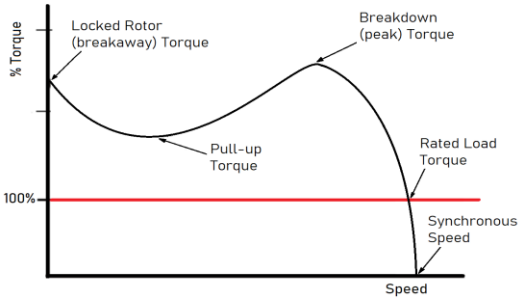
Model No. 4-Pole cage motor 6RN 225M 45kW D230V 50Hz IM1041

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]
230	D	50	45	60,32	140	1478	290,8	IE3	93,8	94,5	94,6	0,85	0,82	0,74	6,57	2,55	2,59
400	Y				81,2												
265	D	60	52	69,71	140	1778	279,3	IE2	94,4	94,9	94,9	0,86	0,83	0,76	6,67	2,47	2,51
460	Y				81												

Motor type	**6RN225M04E32**		Degree of protection	**IP55**
Enclosure	**Totally Enclosed Fan Cooling**		Mounting type	**IM1041**
Frame Material	**Cast iron**		Cooling method	**IC411**
Frame size	**225M**		Motor weight - approx.	**320** kg
Duty	**S1**		Gross weight - approx.	**330** kg
Voltage	**230** V		Motor inertia	**0,5200** kgm²
Frequency	**50** Hz			
Power output	**45** kW		Vibration level	**according IEC60034-14**
			Noise level (pressure) acc 60034-9	**57** dB(A)
Insulation class	**F**			
Ambient temperature	**-20 till 40** °C			
Temperature rise	**temp.rise acc. B**			
Temperature rise winding	**66** K			
Temperature rise surface	**39** K		Direction of rotation	**cw /ccw**
Altitude above sea level	**1000** mtr			
Hazardous area classification	**Safe area**			
Rotor type	**Cage motor**			
Bearing type	**6313/C3**			
Lubrication method	**22gr/10200hrs**			
Type of grease	**Unirex N3**			
Phase resistance at 20°C	**0,0448** Ohm			
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 230V 50Hz	255%	671%	224%	259%	46,6 A
@ D 265V 60Hz	247%	669%	215%	251%	43,5 A

Schematic presentation of torque-speed curve



NOTE

All performance values at rated voltage and frequency. P000046736

All performance parameters are subjected to standard tolerance as per IEC 60034-1 P000051902

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

rotor is a ISO 9001 certified company

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