

Order motor-data-sheet

Squirrel-cage induction electric motor

Motor:

motor type.....: 6RN100L04E15	4 pole	Insulation class.....: F (155°C)
Environment.....: -20°C to +50°C, up to 1000m above sea level		Degree of protection.....: IP55
Area.....: Safe area		Method of cooling.....: IC411
Execution.....: Marine: IEC 92.301 1980 50°C		Mounting.....: IM3041 FF215
Rated voltage [Vac].....: D400 / Y690 50 Hz		Mass [kg].....: 29,80
Output [kW].....: 3,00		Moment of inertia [kgm ²].....: 0,00780
Nom. torque [Nm].....: 20,11		
Duty.....: S1		
Bearings.....: DE: 6306-2Z/C3WT , NDE: 6306-2Z/C3WT		

At nominal (rated load):

Speed [rpm].....: 1425	Phase resistance at 20°C [Ohm]..: 6,43967
Temp. rise windings [K] : 81	temp.rise acc. F (105K)
	Temp. rise surface [K].....: 37

Nom. current [A].....: **6,10 / 3,52** at 400V / 690V 50Hz Acoustic pressure [dB(A)].....: **60,0**

	Partial load - 75%	Full load - 100%	Overload - 125%
Power factor	0,77	0,84	0,87
Efficiency [%]	82,5	81,1 IE1	78,4

At start

Locked rotor torque [%] : **239**
 Locked rotor current [%]: **560**

Pull-up

Pull up torque [%]: **160**

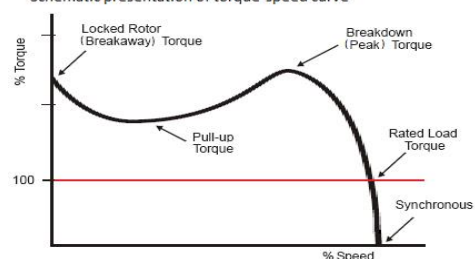
Breakdown

Break down torque [%] ..: **261**

No-load at nominal

No load current [A].....: **3,30**

Schematic presentation of torque-speed curve



Configuration / Extra: R105

- squirrel cage ind. motor 6RN100L04E15-3041
- Cert. of compliance A acc EN10204-2.2 sent with invoice
- Marine execution IEC 92.301 50°C trop. 96% R.H.-100
- Multi class marine LROS,BV,DNV,ABS,GL,RINA,NKK,CCS,KRS



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Area.....: Safe area		Method of cooling.....: IC411
Execution.....: Marine: IEC 92.301 1980 50°C		Mounting.....: IM3041 FF215
Rated voltage [Vac] D460	60 Hz	Mass [kg].....: 29,80
Output [kW].....: 3,45		Moment of inertia [kgm ²].....: 0,00780
Nom. torque [Nm].....: 19,10		
Duty.....: S1		
Bearings.....: DE: 6306-2Z/C3WT , NDE: 6306-2Z/C3WT		

At nominal (rated load):

Speed [rpm].....: 1725	Phase resistance at 20°C [Ohm]..: 6,43967
Temp. rise windings [K] : 72	Temp. rise surface [K].....: 28
temp.rise acc. B (80K)	

Nom. current [A].....: 6,00	at 460V 60Hz	Acoustic pressure [dB(A)].....: 60,0
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	Partial load - 75%	Full load - 100%	Overload - 125%
Power factor	0,78	0,84	0,87
Efficiency [%]	84,5	83,3 IE1	80,9

At start

Locked rotor torque [%] : **249**
 Locked rotor current [%]: **626**

Pull-up

Pull up torque [%]: **161**

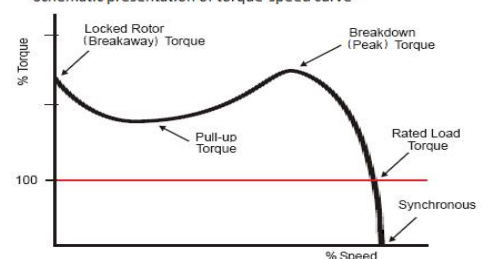
Breakdown

Break down torque [%] ..: **262**

No-load at nominal

No load current [A].....: **2,84**

Schematic presentation of torque-speed curve



Configuration / Extra: R105

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