

# Order motor-data-sheet

Squirrel-cage induction electric motor



Mors 2  
7151 MX EIBERGEN  
THE NETHERLANDS

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Sales .....:  
Fax .....: 0545-475065  
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VAT no .....: 003136346B01  
Reg. no.....: 08030665  
Bank no .....: 451087518  
BIC code.....: ABNANL2A  
IBAN : NL70ABNA0451087518

Rotor UK Ltd  
Attn.

16, Everitt Close Denington Industrial  
Estate  
WELLINGBOROUGH NN8 2QF  
UNITED KINGDOM

Your ref. Imprexon  
Our order: Q16.0133347  
Our ref. 139905  
Date 17.06.2016  
ID P000000170

**Motor:**

motor type .....: 5RN80M02                    2 pole  
Environment.....: -20°C to +40°C, up to 1000m above sea level  
Area .....: ATEX  
Execution .....:  
Rated voltage [Vac]    D230 / Y 400 50Hz  
Output [kW] .....: 1.10  
Nom. torque [Nm] .....: 3.69  
Duty .....: S1  
Bearings.....: DE: 6204-2Z/C3WT , NDE: 6204-2Z/C3WT

Ex Class .....: Ex II 2D  
acc. Ex Norm .....: EN 50281-1-1  
Insulation class .....: F (155°C)  
Degree of protection .....: IP65  
Method of cooling.....: IC411  
Mounting .....: IM3041    FF165  
Mass [kg].....: 14.59  
Moment of inertia [kgm²] .....: 0.00110

**At nominal (rated load):**

Speed [rpm] .....: 2850  
Temp. rise windings [K] : 78                    temp.rise acc. B (80K)  
Nom. current [A].....: 4.15 / 2,40            at 230V / 400V 50Hz

Phase resistance at 20°C [Ohm]..: 6.15568  
Temp. rise surface [K].....: 24

	Partial load - 75%	Full load - 100%	Overload - 125%
Power factor	0.77	0.86	0.90
Efficiency [%]	76.1	77.1    IE1	75.7

**At start**

Locked rotor torque [%] : 237                    Power factor at starting: 0.87  
Locked rotor current [%]: 629

**Pull-up**

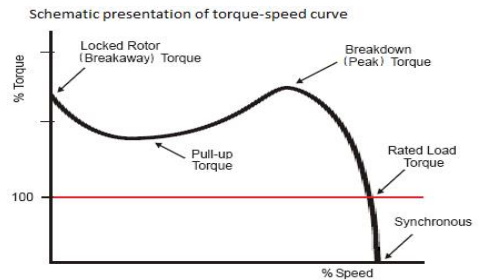
Pull up torque [%] .....: 176

**Breakdown**

Break down torque [%] ..: 244

**No-load at nominal**

No load current [A].....: 2.56



**Configuration / Extra: R285**

squirrel cage ind. motor 5RN80M02-3041  
ATEX Ex II 2D T125°C IP65 00ATEX2078 + PTC for tripping



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**rotor**<sub>b.v.</sub>

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UNITED KINGDOM

Your ref. Imprexon  
Our order: Q16.0133347  
Our ref. 139905  
Date 17.06.2016  
ID P000000182

## Motor:

motor type .....: 5RN80M02                    2 pole  
Environment.....: -20°C to +40°C, up to 1000m above sea level  
Area .....: ATEX  
Execution .....:  
Rated voltage [Vac]    D 265 / Y 460 60Hz  
Output [kW] .....: 1.30  
Nom. torque [Nm] .....: 3.60  
Duty .....: S1  
Bearings.....: DE: 6204-2Z/C3WT , NDE: 6204-2Z/C3WT

Ex Class .....: Ex II 2D  
acc. Ex Norm .....: EN 50281-1-1  
Insulation class .....: F (155°C)  
Degree of protection .....: IP65  
Method of cooling.....: IC411  
Mounting .....: IM3041    FF165  
Mass [kg].....: 14.59  
Moment of inertia [kgm<sup>2</sup>] .....: 0.00110

## At nominal (rated load):

Speed [rpm] .....: 3445  
Temp. rise windings [K] : 80                    temp.rise acc. B (80K)

Phase resistance at 20°C [Ohm]..: 6.15568  
Temp. rise surface [K].....: 22

Nom. current [A].....: 4.15 / 2,40            at 265V / 460V 60Hz

	Partial load - 75%	Full load - 100%	Overload - 125%
Power factor	0.80	0.86	0.91
Efficiency [%]	78.5	79.2	78.7

## At start

Locked rotor torque [%] : 239                    Power factor at starting: 0.85  
Locked rotor current [%]: 629

## Pull-up

Pull up torque [%] .....: 178

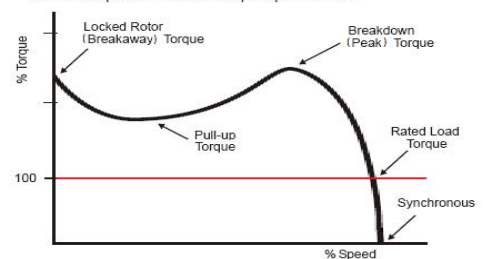
## Breakdown

Break down torque [%] ..: 263

## No-load at nominal

No load current [A].....: 2.15

Schematic presentation of torque-speed curve



## Configuration / Extra: R285

squirrel cage ind. motor 5RN80M02-3041  
ATEX Ex II 2D T125°C IP65 00ATEX2078 + PTC for tripping