



ABB Motors  
and Generators

# Technical Data Sheet - DOL

| Department/Author                         | Project<br>Customer name                     | Location<br>Customer ref.   | Item name<br>001.00001<br>Pages<br>1(3) |
|-------------------------------------------|----------------------------------------------|-----------------------------|-----------------------------------------|
| Our ref.                                  | Rev/Changed by<br>A                          | Date of issue<br>25/02/2013 | Saving ident<br>untitled.xls            |
| Definition                                | Data                                         | Unit                        | Remarks                                 |
| Product                                   | TEFC, 3-phase, squirrel cage induction motor |                             |                                         |
| Product code                              | 3GBP 312 410-AEG                             |                             |                                         |
| Type/Frame                                | M3BP 315 MLA 4                               |                             |                                         |
| Mounting                                  | IM1001, B3(foot)                             |                             |                                         |
| Rated output PN                           | 200                                          | kW                          |                                         |
| Service factor                            | 1.0                                          |                             |                                         |
| Type of duty                              | S6 40%                                       |                             |                                         |
| Rated voltage UN                          | 500                                          | VD                          | ± 5 % (IEC 60034-1)                     |
| Rated frequency fN                        | 50                                           | Hz                          | ± 2 % (IEC 60034-1)                     |
| Rated speed nN                            | 1486                                         | r/min                       |                                         |
| Rated current IN                          | 280                                          | A                           |                                         |
| No-load current                           | 93                                           | A                           |                                         |
| Starting current Is/IN                    | 7,2                                          |                             | Fullfilled IEC 60034-12 design N,H      |
| Nominal torque TN                         | 1285                                         | Nm                          |                                         |
| Locked rotor torque TS/TN                 | 2,5                                          |                             |                                         |
| Maximum torque Tmax/TN                    | 2,9                                          |                             |                                         |
| Minimum torque Tmin/TN                    | 2,1                                          |                             |                                         |
| Speed at minimum torque                   | 1230                                         | r/min                       |                                         |
| Load characteristics (IEC 60034-2-1:2007) | Load %                                       | Current A                   | Efficiency %                            |
| PLL determined from residual loss         | 100                                          | 280                         | 95,6 / IE2                              |
|                                           | 75                                           | 218                         | 95,6                                    |
|                                           | 50                                           | 161                         | 95,3                                    |
|                                           | Start                                        | 2022                        |                                         |
|                                           | 18                                           | s                           | 0,4                                     |
| Maximum starting time from hot            | 32                                           | s                           |                                         |
| Maximum starting time from cold           | F / B                                        |                             |                                         |
| Insulation class / Temperature class      | 40                                           | °C                          |                                         |
| Ambient temperature                       | 1000                                         | m.a.s.l.                    |                                         |
| Altitude                                  | IP55                                         |                             |                                         |
| Enclosure                                 | IC411 self ventilated                        |                             |                                         |
| Cooling system                            | 6319/C3 - 6316/C3                            |                             |                                         |
| Bearing DE/NDE                            |                                              |                             |                                         |
| Type of Grease                            |                                              |                             |                                         |
| Sound pressure level (LP dB(A) 1m)        | 70                                           | dB(A)                       | at load                                 |
| Moment of inertia J = ¼ GD2               | 3,5                                          | kg-m2                       |                                         |
| Balancing                                 |                                              |                             |                                         |
| Vibration class                           |                                              |                             |                                         |
| Position of terminal box                  | Top                                          |                             |                                         |
| Terminal box entries; no, dims.           |                                              |                             |                                         |
| Number of power terminals                 |                                              |                             |                                         |
| Direction of rotation                     | CW or CCW                                    |                             |                                         |
| Weight of rotor                           | 275                                          | kg                          |                                         |
| Total weight of motor                     | 1160                                         | kg                          |                                         |
| Dimension drawing no.                     |                                              |                             |                                         |

Spotwind data

Option Variant Codes / Definition

Remarks:

Data based on situation 04/08/2011

All data subject to tolerances in accordance with IEC

Guaranteed values on request