


| IEC LV Motors | | Technical Data Sheet - DOL | | |  | |
|---|--|---|------------------------------------|--------------------------------------|---|----------------|
| Project | | Location | | | | |
| Department/Author | | Customer name | | Customer ref | Item name 1.00001 | |
| Our ref. | | Rev/Changed by A | Date of issue 10/18/2021 | Saving ident untitled.xlsm | Pages 1(3) | |
| No. | Definition | Data | Unit | Remarks | | |
| 1 | Product | TEFC, 3-phase, squirrel cage induction motor | | | | |
| 2 | Product code | 3GBA 162 420-ADT | | | Calc. ref. | 3GZC021016-191 |
| 3 | Type/Frame | M2BAX 160MLB 4 | | | | |
| 4 | Mounting | IM1001, B3(foot) | | | | |
| 5 | Rated output P _N | 15 | kW | | | |
| 6 | Service factor | 1 | | | | |
| 7 | Type of duty | S1(IEC) 100% | | | | |
| 8 | Rated voltage U _N | 400 | VD | ± 5 % (IEC 60034-1) | | |
| 9 | Rated frequency f _N | 50 | Hz | ± 2 % (IEC 60034-1) | | |
| 10 | Rated speed n _N | 1468 | r/min | | | |
| 11 | Rated current I _N | 29.5 | A | | | |
| 12 | No-load current | 11.3 | A | | | |
| 13 | Starting current I _s /I _N | 8 | | Meet IEC 60034-12, N,(H at 60 Hz) | | |
| 14 | Nominal torque T _N | 98 | Nm | | | |
| 15 | Locked rotor torque T _s /T _N | 3.2 | | | | |
| 16 | Maximum torque T _{max} /T _N | 3.7 | | | | |
| 17 | Minimum torque T _{min} /T _N | 1.8 | | | | |
| 18 | Speed at minimum torque | 525 | r/min | | | |
| Load characteristics (IEC 60034-2-1:2014) | | Load % | Current A | Efficiency % | Power factor | |
| 19 | PLL determined from residual loss | 100 | 29.5 | 88.7 / IE1 | 0.81 | |
| 20 | | 75 | 24.2 | 89.4 | 0.75 | |
| 21 | | 50 | 19.1 | 88.6 | 0.64 | |
| 22 | | Start | 236 | | 0.38 | |
| 23 | Maximum starting time from hot | 15 | s | | | |
| 24 | Maximum starting time from cold | 27 | s | | | |
| 25 | Insulation class / Temperature class | F / B | | | | |
| 26 | Ambient temperature | 40 | °C | | | |
| 27 | Altitude | 1000 | m.a.s.l. | | | |
| 28 | Enclosure | IP55 | | | | |
| 29 | Cooling system | IC411 self ventilated | | | | |
| 30 | Bearing DE/NDE | 6209-2Z/C3 - 6209-2Z/C3 | | | | |
| 31 | Type of Grease | | | | | |
| 32 | Sound pressure level (LP dB(A) 1m) | 66 | dB(A) | at load | | |
| 33 | Moment of inertia J = ¼ GD ² | 0.0999555 | kg-m ² | | | |
| 34 | Balancing | | | | | |
| 35 | Vibration class | | | | | |
| 36 | Position of terminal box | Top | | | | |
| 37 | Terminal box entries; no, dimens. | | | | | |
| 38 | Number of power terminals | | | | | |
| 39 | Direction of rotation | CW or CCW | | | | |
| 40 | Weight of rotor | 35 | kg | | | |
| 41 | Total weight of motor | 126 | kg | | | |
| 42 | Dimension drawing no. | | | | | |
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| Ex-motors | | | | | | |
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| Option Variant Codes / Definition | | | | | | |
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| Remarks: | | | | | | |
| Data based on situation 7/18/2019 | | | | | | |
| All data subject to tolerances in accordance with IEC | | | | | | |
| Guaranteed values on request | | | | | | |