


| 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 101 510-ADT | | Calc. ref. | 3GZC021010-147 |
| 3 | Type/Frame | M2BAX 100LA 2 | | | |
| 4 | Mounting | IM1001, B3(foot) | | | |
| 5 | Rated output P _N | 3 | 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 | 2919 | r/min | | |
| 11 | Rated current I _N | 6.1 | A | | |
| 12 | No-load current | 3.3 | A | | |
| 13 | Starting current I _s /I _N | 8.7 | | Meet IEC 60034-12, N | |
| 14 | Nominal torque T _N | 9.8 | Nm | | |
| 15 | Locked rotor torque T _s /T _N | 4.1 | | | |
| 16 | Maximum torque T _{max} /T _N | 5 | | | |
| 17 | Minimum torque T _{min} /T _N | 4.1 | | | |
| 18 | Speed at minimum torque | 300 | r/min | | |
| Load characteristics (IEC 60034-2-1:2014) | | Load % | Current A | Efficiency % | Power factor |
| 19 | PLL determined from residual loss | 100 | 6.1 | 81.5 / IE1 | 0.84 |
| 20 | | 75 | 5.2 | 80.3 | 0.78 |
| 21 | | 50 | 4.2 | 77.5 | 0.67 |
| 22 | | Start | 53 | | 0.6 |
| 23 | Maximum starting time from hot | 10 | s | | |
| 24 | Maximum starting time from cold | 18 | 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 | 6206-2Z/C3 - 6205-2Z/C3 | | | |
| 31 | Type of Grease | | | | |
| 32 | Sound pressure level (LP dB(A) 1m) | 74 | dB(A) | at load | |
| 33 | Moment of inertia J = ¼ GD ² | 0.0048 | 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 | 6 | kg | | |
| 41 | Total weight of motor | 32 | 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 | | | | | |