


| | | | | | |
|--|--|---|-----------------------------------|--------------------------------------|---|
| ABB Motors and Generators | | Technical Data Sheet | | |  |
| | | Project | | Location | |
| Department/Author | | Customer name | | Customer ref. | Item name 1.00001 |
| Our ref. | | Rev/Changed by A | Date of issue 12/8/2020 | 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 112 410-ADDIN | | Calc. ref. | 3GZH021011-1 |
| 3 | Type/Frame | M2BAX 112MLA 4 | | | |
| 4 | Mounting | IM1001, B3(foot) | | | |
| 5 | Rated output P _N | 3.7 | kW | | |
| 6 | Service factor | 1 | | | |
| 7 | Type of duty | S1 100% | | | |
| 8 | Rated voltage U _N | 415 | VD | +10, -10 % | |
| 9 | Rated frequency f _N | 50 | Hz | +5, -5 % | |
| 10 | Rated speed n _N | 1450 | r/min | | |
| 11 | Rated current I _N | 7.7 | A | | |
| 12 | | | | | |
| 13 | Starting current I _s /I _N | 7.5 | | | |
| 14 | Nominal torque T _N | 24.4 | Nm | | |
| 15 | Locked rotor torque T _s /T _N | 3.3 | | | |
| 16 | Maximum torque T _{max} /T _N | 3.9 | | | |
| 17 | | | | | |
| 18 | | | | | |
| | Load characteristics | Load % | Current A | Efficiency % | Power factor |
| 19 | PLL determined from residual loss | 100 | 7.7 | 88.4 / IE3 | 0.76 |
| 20 | | 75 | 6.4 | 88.5 | 0.68 |
| 21 | | 50 | 5.4 | 87 | 0.55 |
| 22 | | | | | |
| 23 | Thermal withstand time hot | 7 | s | | |
| 24 | Thermal withstand time cold | 12 | s | | |
| 25 | Insulation class / Temperature class | F / B | | | |
| 26 | Ambient temperature | 50 | °C | | |
| 27 | Altitude | 1000 | m.a.s.l. | | |
| 28 | Degree of protection | IP55 | | | |
| 29 | Cooling system | IC411 | | | |
| 30 | Bearing DE/NDE | 6206-2Z/C3 - 6205-2Z/C3 | | | |
| 31 | Sound pressure level (LP dB(A) 1m) | 72 | dB(A) | at no-load | |
| 32 | Moment of inertia J = ¼ GD2 | 0.01542 | kg-m2 | | |
| 33 | Position of terminal box | Top | | | |
| 34 | Direction of rotation | Bi-directional | | | |
| 35 | Weight of rotor | 13 | kg | | |
| 36 | Total weight of motor | 50 | kg | | |
| 37 | | | | | |
| 38 | | | | | |
| 39 | | | | | |
| 40 | | | | | |
| 41 | | | | | |
| 42 | | | | | |
| 43 | | | | | |
| 44 | | | | | |
| 45 | | | | | |
| Ex-motors | | | | | |
| 46 | | | | | |
| 47 | | | | | |
| 48 | | | | | |
| Option Variant Codes / Definition | | | | | |
| 49 | | | | | |
| 50 | | | | | |
| 51 | | | | | |
| 52 | | | | | |
| Remarks: | | | | | |
| Applicable standards: IS 12615:2018, IEC 60034-30-1:2014 | | | | | |
| All performance values are subject to IS/IEC tolerances | | | | | |

