


| ABB Motors and Generators | | Technical Data Sheet | | |  | |
|--|---|---|-------------------|-------------------|---|--|
| Department/Author | | Project | Location | | Item name | |
| Our ref. | | Rev/Changed by | Date of issue | Saving ident | Pages | |
| | | A | 1/17/2019 | untitled.xls | 1(3) | |
| No. | Definition | Data | Unit | Remarks | | |
| 1 | Product | TEFC, 3-phase, squirrel cage induction motor | | | | |
| 2 | Product code | E3BAP 355 MLD2 | | | | |
| 3 | Type/Frame | E3BAP 355 MLD2 | | | | |
| 4 | Mounting | IM2001, B35(foot cum flange) | | | | |
| 5 | Rated output P_N | 375 | 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 | 2982 | r/min | | | |
| 11 | Rated current I_N | 605 | A | | | |
| 12 | Method of starting | DOL | | | | |
| 13 | Starting current I_s/I_N | 7.7 | | | | |
| 14 | Nominal torque T_N | 1201 | Nm | | | |
| 15 | Locked rotor torque T_S/T_N | 1.6 | | | | |
| 16 | Maximum torque T_{max}/T_N | 3.1 | | | | |
| 17 | | | | | | |
| 18 | | | | | | |
| Load characteristics | | Load % | Current A | Efficiency % | Power factor | |
| 19 | PLL determined from residual loss | 100 | 605 | 95.8 / IE3 | 0.9 | |
| 20 | | 75 | 469 | 95.8 | 0.87 | |
| 21 | | 50 | 340 | 94.8 | 0.81 | |
| 22 | | | | | | |
| 23 | Thermal withstand time hot | 70 | s | | | |
| 24 | Thermal withstand time cold | 138 | 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 self ventilated | | | | |
| 30 | Bearing DE/NDE | 6319M/C4 - 6319/C3 | | | | |
| 31 | Sound pressure level (LP dB(A) 1m) | 90 | dB(A) | at no-load | | |
| 32 | Moment of inertia $J = \frac{1}{4} GD^2$ | 6.525 | kg-m ² | | | |
| 33 | Position of terminal box | Top | | | | |
| 34 | Direction of rotation | Bi-directional | | | | |
| 35 | Total weight of motor | 2070 | kg | | | |
| 36 | | User defined motor | | | | |
| 37 | | | | | | |
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| Ex-motors | | | | | | |
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| Option Variant Codes / Definition | | | | | | |
| 49 | Application check not made in absence of load details | | | | | |
| 50 | Efficiency level: IE3 as per IS 12615 2018 | | | | | |
| 51 | | | | | | |
| 52 | | | | | | |
| Remarks: | | | | | | |
| 10/2/2014 | | | | | | |