

**Data sheet for three-phase Squirrel-Cage-Motors****1MT8014系列粉尘防爆电动机数据表****MLFB-Ordering data:** 1MT8014-2DD03-3AA4

Explosion-proof grade: Ex tb IIIC T130°C Db

**Motor type:**

Client order no.:

Order no.:

Offer no.:

Remarks:

| U                  | D / Y | f    | P       | P     | I      | n       | M    | NOM. EFF at ... load [%] |      |                        | Power factor at ... load |      |      | I <sub>s</sub> /I <sub>N</sub> | M <sub>s</sub> /M <sub>N</sub> | M <sub>k</sub> /M <sub>N</sub> | IE-CL |
|--------------------|-------|------|---------|-------|--------|---------|------|--------------------------|------|------------------------|--------------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V]                |       | [Hz] | [kW]    | [hp]  | [A]    | [1/min] | [Nm] | 4/4                      | 3/4  | 2/4                    | 4/4                      | 3/4  | 2/4  | I <sub>s</sub> /I <sub>N</sub> | T <sub>s</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| 380                | D     | 50   | 37      | -N/A- | 77     | 740     | 478  | 93.1                     | 93.6 | 93.2                   | 0.78                     | 0.73 | 0.62 | 7                              | 2.4                            | 2.6                            | IE4   |
| 660                | Y     | 50   | 37      | -N/A- | 44.5   | 740     | 478  | 93.1                     | 93.6 | 93.2                   | 0.78                     | 0.73 | 0.62 | 7                              | 2.4                            | 2.6                            | IE4   |
|                    |       |      |         |       |        |         |      |                          |      |                        |                          |      |      |                                |                                |                                |       |
| A = IM B3 / IM 100 |       |      | FS 280S |       | 489 kg |         | IP65 | IEC/EN 60034             |      | IEC, DIN, ISO, VDE, EN |                          |      |      |                                |                                |                                |       |

**Mechanical data / 机械性能数据**

|   |   |         |
|---|---|---------|
| Sound pressure level 50Hz/60Hz (No load)<br>声压等级 50Hz/60Hz (空载) (dB(A)) | 62                                      | -N/A-   |
| Moment of inertia<br>转动惯量 (kgm <sup>2</sup> )                           | 1.621                                   |         |
| Bearing DE   NDE<br>轴承 DE   NDE   | 6316 C3                                 | 6316 C3 |
| Relubrication quantity (DE NDE)<br>再润滑用量 (g) (DE NDE)                   | 30                                      | 30      |
| Relubrication interval (DE NDE)<br>再润滑周期 (h) (DE NDE)                   | 5000                                    |         |
| Lubricants<br>润滑脂   | 2# Li Grease                            |         |
| Regreasing device<br>再润滑装置  | Yes                                     |         |
| Grease nipple<br>油杯   | M10x1 GB 1152                           |         |
| Type of bearing<br>轴承类型   | Fixed bearing on NDE                    |         |
| Condensate drainage holes<br>排水孔  | No                                      |         |
| External earthing terminal<br>外部接地                                      | Yes                                     |         |
| Vibration class<br>振动等级   | A                                       |         |
| Insulation<br>绝缘等级  | 155(F) to 130(B)                        |         |
| Duty type<br>工作方式   | S1                                      |         |
| Direction of rotation<br>旋转方向   | bidirectional                           |         |
| Frame material<br>机座材料  | Cast iron                               |         |
| Data of anti condensation heating<br>防潮加热                               | No                                      |         |
| Coating<br>喷漆   | Yes                                     |         |
| Color<br>颜色   | RAL 7011                                |         |
| Motor protection<br>电机保护  | A = Without motor protection            |         |
| Method of cooling<br>冷却方式   | IC411 - Self ventilated, surface cooled |         |

**Terminal box / 接线盒**

|   |                     |
|---|---------------------|
| Terminal box position<br>接线盒位置                          | Terminal box on top |
| Material of terminal box<br>接线盒材料                       | Aluminum            |
| Type of terminal box<br>接线盒型号                           | N/A                 |
| Cable diameter<br>电缆直径 (mm)                             | 37-44               |
| Max. cross-sectional area<br>最大电缆截面积 (mm <sup>2</sup> ) | 120                 |
| Main terminal thread<br>接线端子螺纹                          | 6xM10               |
| Cable gland<br>葛兰                                       | 2 plug              |
| Main cable entry<br>主进线孔螺纹规格                            | 2xM63x1.5           |

**Special design / 特殊设计****Environmental conditions / 环境条件**

|                                  |          |
|----------------------------------|----------|
| Ambient temperature<br>环境温度(°C)  | -20 ~ 40 |
| Altitude above sea level<br>海拔高度 | 1000m    |