

Data sheet for three-phase Squirrel-Cage-Motors

1MT8014系列粉尘防爆电动机数据表

MLFB-Ordering data: 1MT8014-2DB03-5AA4

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 _s /I _N | M _s /M _N | M _k /M _N | IE-CL |
|--------------------|-------|------|---------|-------|--------|---------|------|--------------------------|------|------------------------|--------------------------|------|------|--------------------------------|--------------------------------|--------------------------------|-------|
| [V] | | [Hz] | [kW] | [hp] | [A] | [1/min] | [Nm] | 4/4 | 3/4 | 2/4 | 4/4 | 3/4 | 2/4 | I _s /I _N | T _s /T _N | T _B /T _N | |
| 415 | D | 50 | 75 | -N/A- | 125 | 1488 | 481 | 96 | 96.3 | 96.2 | 0.87 | 0.83 | 0.73 | 8.5 | 2.8 | 3 | IE4 |
| 480 | D | 60 | 86 | -N/A- | 124 | 1788 | 459 | 96.2 | 96.3 | 96 | 0.87 | 0.83 | 0.74 | 8.9 | 2.5 | 2.7 | -N/A- |
| | | | | | | | | | | | | | | | | | |
| A = IM B3 / IM 100 | | | FS 280S | | 600 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) 声压等级 50Hz/60Hz (空载) (dB(A)) | 66 | -N/A- |
| Moment of inertia 转动惯量 (kgm ²) | 1.848 | |
| Bearing DE NDE 轴承 DE NDE | 6316 C3 | 6316 C3 |
| Relubrication quantity (DE NDE) 再润滑用量 (g) (DE NDE) | 30 | 30 |
| Relubrication interval (DE NDE) 再润滑周期 (h) (DE NDE) | 5000 | |
| Lubricants 润滑脂 | 2# Li Grease | |
| Regreasing device 再润滑装置 | Yes | |
| Grease nipple 油杯 | M10x1 GB 1152 | |
| Type of bearing 轴承类型 | Fixed bearing on NDE | |
| Condensate drainage holes 排水孔 | No | |
| External earthing terminal 外部接地 | Yes | |
| Vibration class 振动等级 | A | |
| Insulation 绝缘等级 | 155(F) to 130(B) | |
| Duty type 工作方式 | S1 | |
| Direction of rotation 旋转方向 | bidirectional | |
| Frame material 机座材料 | Cast iron | |
| Data of anti condensation heating 防潮加热 | No | |
| Coating 喷漆 | Yes | |
| Color 颜色 | RAL 7011 | |
| Motor protection 电机保护 | A = Without motor protection | |
| Method of cooling 冷却方式 | IC411 - Self ventilated, surface cooled | |

Terminal box / 接线盒

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

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

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