



## Data sheet for SIMOTICS XP 1MT0003 Low-Voltage Flameproof Motor

### 1MT0003系列低压隔爆电动机数据表

MLFB-Ordering data: 1MT0003-2BA23-3AA4

Flameproof grade: Ex db IIB T4 Gb



#### Motor type:

Client order no.:

Order no.:

Offer no.:

Remarks:

| U     | Δ / Y | f    | P       | P     | I     | n       | M    | NOM. EFF at ... load [%] |      |       | Power factor at ... load |       |       | I <sub>A</sub> /I <sub>N</sub> | M <sub>A</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>A</sub> /I <sub>N</sub> | T <sub>A</sub> /T <sub>N</sub> | T <sub>B</sub> /T <sub>N</sub> |       |
| 380   | D     | 50   | 45      | - / - | 82    | 2960    | 145  | 94.0                     | 94.3 | - / - | 0.89                     | - / - | - / - | 7.8                            | 2.4                            | 3.2                            | IE3   |
| 660   | Y     | 50   | 45      | - / - | 47    | 2960    | 145  | 94.0                     | 94.3 | - / - | 0.89                     | - / - | - / - | 7.8                            | 2.4                            | 3.2                            | IE3   |
|       |       |      |         |       |       |         |      |                          |      |       |                          |       |       |                                |                                |                                |       |
| IM B3 |       |      | FS 225M |       | 400kg | IP55    |      | IEC/EN 60034             |      |       | IEC, DIN, ISO, VDE, EN   |       |       |                                |                                |                                |       |

| Mechanical data / 机械性能数据                              |  |         | Terminal box / 接线盒                  |   |
|---|--|---------|-------------------------------------|---|
| Sound pressure level 50Hz/60Hz<br>声压等级 50Hz/60Hz (负载) | 72 dB(A)   | - / -   | Terminal box position<br>接线盒位置      | top<br>顶部                                   |
| Moment of inertia<br>转动惯量                             | 0.301 kgm²   |         | Material of terminal box<br>接线盒材料   | cast iron<br>铸铁                             |
| Bearing DE   NDE<br>轴承 DE   NDE                       | 6313 C3  | 6313 C3 | Type of terminal box<br>接线盒型号       | - / -                                       |
| Bearing lifetime<br>轴承寿命                              | - / -  |         | Hoop gland diameter<br>接线斗直径 (mm)   | 1xΦ72                                       |
| Lubricants<br>润滑脂                                     | - / -  |         | Cable diameter<br>外接电缆直径 (mm)       | 19 ~ 20/25 ~ 26<br>/31 ~ 32/37 ~ 38/41 ~ 42 |
| Regreasing device<br>再润滑装置                            | No   |         | Max. auxiliary terminals<br>最大辅助端子数 | - / -                                       |
| Grease nipple<br>油杯                                   | - / -  |         | Auxiliary cable entry<br>辅助进线孔      | - / -                                       |
| Type of bearing<br>轴承类型                               | floating bearing DE<br>驱动端轴承浮动                         |         | Main terminal thread<br>接线端子螺纹      | 6xM8  |
| Condensate drainage holes<br>排水孔                      | No   |         | Cable gland<br>葛兰                   | - / -                                       |
| External earthing terminal<br>外部接地                    | Yes  |         | Special design / 特殊设计               |   |
| Vibration class<br>振动等级                               | A  |         |                                     |   |
| Insulation<br>绝缘等级                                    | 155(F)   |         |                                     |   |
| Duty type<br>工作方式                                     | S1   |         |                                     |   |
| Direction of rotation<br>旋转方向                         | bidirectional<br>双向                                    |         |                                     |   |
| Frame material<br>机座材料                                | cast iron<br>铸铁  |         |                                     |   |
| Data of anti condensation heating<br>防潮加热             | -/-  |         |                                     |   |
| Coating<br>喷漆   | Yes  |         |                                     |   |
| Color<br>颜色   | RAL7011  |         |                                     |   |
| Motor protection<br>电机保护                              | - / -  |         |                                     |   |
| Method of cooling<br>冷却方式                             | IC411 - self ventilated, surface cooled<br>IC411 - 自扇冷 |         |                                     |   |

#### Environmental conditions

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

Unrestricted

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.

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Unrestricted