



| RSMA-M08J2430A           |  |                   |           |
|--------------------------|--|-------------------|-----------|
| Performance parameter    | Value  | Unit              | Precision |
| Rated output power       | 0.75   | KW                |           |
| Rated current            | 4.2  | A                 | $\pm 0.5$ |
| Maximum current          | 14.7   | A                 |           |
| Rated torque             | 2.39   | N.m               |           |
| Maximum torque           | 8.36   | N.m               |           |
| Rated speed              | 3000   | Rpm               |           |
| Maximum speed            | 6000   | Rpm               |           |
| Rotor inertia            | $1.71 \times 10^{-4}$                          | Kg.m <sup>2</sup> |           |
| Torque constant          | 0.57   | N.m/A             |           |
| Back EMF                 | 36.6   | V/1000r/min       | $\pm 1$   |
| Wire resistance          | 1.65   | $\Omega$          | $\pm 10$  |
| Wire inductance          | 7.4  | mH                |           |
| Electrical time constant | 4.48   | ms                |           |
| Voltage                  | 220  | V                 |           |
| Number of pole pairs     | 5 pairs of poles                               |                   |           |
| Oil seal                 | yes  |                   |           |
| Protection level         | IP65   |                   |           |
| Insulation class         | Class F  |                   |           |
| Encoder type             | 17-bit magnetic                                |                   |           |
| Ambient temperature      | $-20^{\circ}\text{C} \sim +50^{\circ}\text{C}$ |                   |           |
| Use environment humidity | $< 90\%$ (No frost)                            |                   |           |

| Winding connector wiring sequence |   |   |   |    |
|-----------------------------------|---|---|---|----|
| No.                               | 1 | 2 | 3 | 4  |
| definition                        | U | V | W | PE |

| 17Bit Encoder |    |     |    |     |     |   |   |   |   |
|---------------|----|-----|----|-----|-----|---|---|---|---|
| No.           | 1  | 2   | 3  | 4   | 5   | 6 | 7 | 8 | 9 |
| definition    | FG | +5V | 0V | SD+ | SD- |   |   |   |   |

| 标记 | 处数 | 分区 | 更改文件号 | 签名 | 日期 |
|----|----|----|-------|----|----|
| 设计 |    |    |       |    | 日期 |
| 审核 |    |    |       |    | 日期 |
| 工艺 |    |    |       |    | 日期 |
| 批准 |    |    |       |    | 日期 |

| 阶段      | 标记 | 重量 | 比例  |
|---------|----|----|-----|
|         |    |    | 1:1 |
| 共 张 第 页 |    |    |     |

**RTELLIGENT**

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