



## MOTOR DATA SHEET

Motor type: **2Sg225M4-(2D,3D)**

Series: **GAS AND DUST - CATEGORY 2D, 3D, 3G**

29-04-2024

### ELECTRICAL PARAMETERS

| U   | CONN. | f  | P  |    | Duty | I  | n    | T   | TL/T | TB/T | IL/I | Efficiency at load [%] |      |      | Power factor at load [-] |      |      |
|-----|-------|----|----|----|------|----|------|-----|------|------|------|------------------------|------|------|--------------------------|------|------|
| V   | -     | Hz | kW | HP | -    | A  | rpm  | N   | -    | -    | -    | 2/4                    | 3/4  | 4/4  | 2/4                      | 3/4  | 4/4  |
| 400 | Δ     | 50 | 45 | 60 | S1   | 79 | 1480 | 291 | 2.4  | 2.3  | 7    | 93.9                   | 94.3 | 94.0 | 0.7                      | 0.85 | 0.88 |

### GENERAL DATA

|                                       |                       |                                      |               |
|---------------------------------------|-----------------------|--------------------------------------|---------------|
| Efficiency class                      | -                     | Sound pressure level [dB]            | 73            |
| Frame size                            | 225                   | Sound power level [dB]               | 83            |
| Number of poles                       | 4                     | Terminal box position                | on right side |
| Starting method                       | DOL or Y/Δ            | Possibility of terminal box rotation | yes           |
| Insulation class                      | F                     | Bearing on D-side                    | 6313C3        |
| Frequency converter supply            | on demand             | Bearing on ND-side                   | 6313C3        |
| Mounting arrangement                  | IMB3/B5/B35           | Bearings regreasing                  | yes           |
| Cooling method                        | IC411                 | Housing - material                   | cast iron     |
| Weight [kg]                           | 390                   | Feet - material                      | cast iron     |
| Moment of inertia [kgm <sup>2</sup> ] | 0.53                  | Bearing shields - material           | cast iron     |
| Direction of rotation                 | CW/CCW                | Painting                             | RAL5010       |
| Degree of protection                  | IP66 (2D) / IP56 (3D) | Climatic execution                   | N             |

### ENVIRONMENTAL CONDITIONS

|                          |                    |                              |            |
|--------------------------|--------------------|------------------------------|------------|
| Ambient temperature [°C] | from -20 up to +40 | Altitude above sea level [m] | up to 1000 |
| Relative humidity [%]    | up to 95           |                              |            |

### ACCESSORY

|                                |         |                                 |                       |
|--------------------------------|---------|---------------------------------|-----------------------|
| Number of terminals or cables  | 6       | Temperature sensors in bearings | 2 x PTC (1pc/bearing) |
| Cable glands/inlets            | 2 + 1   | Winding heaters                 | on demand             |
| Temperature sensors in winding | 3 x PTC | Optional accessories            | on demand             |

### STANDARDS

EN 60034-1, EN 60079-0, EN 60079-15, EN 60079-31

### CERTIFICATES

ATEX

### ADDITIONAL INFO

|            |   |  |  |
|------------|---|--|--|
| Ex marking | II 2D,3D Ex t IIIC,IIIB<br>T100°C Db / II 3G ExnA II<br>T5 Gc |  |  |
|------------|---|--|--|