



MOTOR DATA SHEET

Motor type: **2Sg225S8-(2D,3D)**

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

15-03-2025

| 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 | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Δ | 50 | 18.5 | 25 | S1 | 37 | 735 | 240 | 2 | 2 | 5.6 | 88.8 | 90.0 | 89.5 | 0.63 | 0.75 | 0.81 |

| GENERAL DATA | | | |
|---------------------------------------|-----------------------|--------------------------------------|---------------|
| Efficiency class | - | Sound pressure level [dB] | 60 |
| Frame size | 225 | Sound power level [dB] | 70 |
| Number of poles | 8 | 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 (IMB3) [kg] | 320 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.58 | 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 IIIIC,IIIB T100°C Db / II 3G ExnA II T5 Gc | |