



MOTOR DATA SHEET

Motor type: **2Sg225M2-(2D,3D)**

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

07-06-2025

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 | 45 | 60 | S1 | 77 | 2968 | 145 | 2.4 | 2.5 | 7 | 93.8 | 94.6 | 94.5 | 0.82 | 0.87 | 0.89 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------------|--------------------------------------|---------------|
| Efficiency class | - | Sound pressure level [dB] | 79 |
| Frame size | 225 | Sound power level [dB] | 89 |
| Number of poles | 2 | 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] | 375 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.26 | 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 T100°C Db / II 3G ExnA II T5 Gc | | |
|------------|---------------------------------------------------------------|--|--|