



MOTOR DATA SHEET

Motor type: **ExSg112M-2-2GT3_2D**

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 | 4 | 5.5 | S1 | 7.5 | 2875 | 13.3 | 2 | 2.4 | 6.5 | 86.2 | 86.5 | 85.5 | 0.83 | 0.89 | 0.91 |

| GENERAL DATA | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 71 |
| Frame size | 112 | Sound power level [dB] | 81 |
| Number of poles | 2 | Terminal box position | top |
| Starting method | DOL or Y/Δ | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 63062Z |
| Frequency converter supply | no | Bearing on ND-side | 63062Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | aluminium |
| Weight (IMB3) [kg] | 33 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | 0.008 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP66 | 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 | on demand |
| Cable glands/inlets | 2 | Winding heaters | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories | on demand |

| STANDARDS | |
|--|--|
| EN 60034-1, EN 60079-0, EN 60079-7, EN 60079-15, EN 60079-31 | |

| CERTIFICATES | |
|--------------|--|
| ATEX | |

| ADDITIONAL INFO | | |
|-----------------|---|--|
| Ex marking | II 2G Ex eb IIC T3 Gb / II 2D Ex tb IIIC T125°C Db | |