



MOTOR DATA SHEET

Motor type: **ExSg100L-4B-2GT4_2D**

Series: **Gas and Dust - category 2D, 3D, 3G**

27-09-2024

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 | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 400 | Y | 50 | 2 | 2.7 | S1 | 4.3 | 1425 | 13.4 | 2.4 | 2.7 | 6.7 | 77.6 | 80.0 | 79.8 | 0.68 | 0.79 | 0.85 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 60 |
| Frame size | 100 | Sound power level [dB] | 70 |
| Number of poles | 4 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 62062Z |
| Frequency converter supply | no | Bearing on ND-side | 62062Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | aluminium |
| Weight [kg] | 23.9 | Feet - material | aluminium |
| Moment of inertia [kgm ²] | 0.0082 | Bearing shields - material | aluminium |
| 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 T4 Gb / II 2D Ex tb IIIC T125°C Db | |
|------------|---|--|