



MOTOR DATA SHEET

Motor type: **ExSg180M-4-2GT3**

Series: **Increased safety**

16-06-2025

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 | 18.5 | 25 | S1 | 33 | 1470 | 120.2 | 2.8 | 2.7 | 6.7 | 91.1 | 91.8 | 91.4 | 0.76 | 0.85 | 0.89 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 69 |
| Frame size | 180 | Sound power level [dB] | 80 |
| Number of poles | 4 | Terminal box position | top |
| Starting method | DOL or Y/Δ | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 63112Z |
| Frequency converter supply | no | Bearing on ND-side | 63112Z |
| Mounting arrangement | IMB3/B5/B35/B14 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 173 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.155 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP55 | 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 | no |
| Temperature sensors in winding | on demand | Optional accessories | on demand |

STANDARDS

EN 60079-0, EN 60079-15

CERTIFICATES

ATEX

ADDITIONAL INFO

| | | | |
|--|---|------------|--------------------|
| tE heating time up to T3 temperature [s] | 5 | Ex marking | II 2G Ex eb IIC T3 |
|--|---|------------|--------------------|