

MOTOR DATA SHEET

Motor type: **3SGf250M4z-E**

Series: **FOR MINING CONVEYOR BELT DRIVES 3SGF SERIES**



03-02-2026

| ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | | |
|-----------------------|-------|----------|-----------|-----------|-------|----------|------------|-----------|-------------|-------------|-------------|------------------------|------|------|--------------------------|------|------|
| <i>U</i> | CONN. | <i>f</i> | <i>P</i> | | Duty | <i>I</i> | <i>n</i> | <i>T</i> | <i>TL/T</i> | <i>TB/T</i> | <i>IL/I</i> | Efficiency at load [%] | | | Power factor at load [-] | | |
| <i>V</i> | - | Hz | <i>kW</i> | <i>HP</i> | - | A | <i>rpm</i> | <i>Nm</i> | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 500 | Y | 50 | 65 | 87 | S1/S4 | 95 | 1475 | 421 | 2.5 | 2.6 | 6.3 | 93.1 | 93.9 | 93.8 | 0.71 | 0.80 | 0.84 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 82 |
| Frame size | 250 | Sound power level [dB] | 92 |
| Number of poles | 4 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | no |
| Insulation class | F | Bearing on D-side | NU 315 |
| Frequency converter supply | on demand | Bearing on ND-side | 6315 C3 |
| Mounting arrangement | IMB35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | steel |
| Weight (IMB3) [kg] | 590 | Feet - material | steel |
| Moment of inertia [kgm ²] | 0.61 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CWW | Painting | RAL5010 |
| Degree of protection | IP56 | 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 | 3 | Temperature sensors in bearings | 2 x bimetallic (1pc/bearing) |
| Cable glands/inlets | 2 | Winding heaters | on demand |
| Temperature sensors in winding | 3 x bimetallic | Optional accessories | on demand |

STANDARDS

IEC 60034-1, IEC 60079-0, IEC 60079-1, IEC 60079-7

CERTIFICATES

ATEX, EAC, BiH

ADDITIONAL INFO

| | | |
|------------|----------------|--|
| Ex marking | IM2 Ex db I Mb | |
|------------|----------------|--|