



MOTOR DATA SHEET

Motor type: **3SGf280M2-E**

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

02-05-2024

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 | N | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 500 | Y | 50 | 90 | 125 | S1/S4 | 120 | 2970 | 289 | 2 | 2.5 | 6.5 | 93.7 | 94.3 | 94.0 | 0.9 | 0.91 | 0.92 |

GENERAL DATA

| | | | |
|---------------------------------------|-----------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 89 |
| Frame size | 280 | Sound power level [dB] | 99 |
| Number of poles | 2 | Terminal box position | top |
| Starting method | DOL | Possibility of terminal box rotation | no |
| Insulation class | F | Bearing on D-side | NU 317 |
| Frequency converter supply | on demand | Bearing on ND-side | 6317 C3 |
| Mounting arrangement | IMB35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | steel |
| Weight [kg] | 800 | Feet - material | steel |
| Moment of inertia [kgm ²] | 0.72 | 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 | | |
|------------|----------------|--|--|