



## MOTOR DATA SHEET

Motor type: **3SGf250M6-E**

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

01-09-2024

### 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  |
| 500 | Y     | 50 | 45 | 60 | S1/S4 | 64 | 980 | 439 | 2.6  | 2    | 6.6  | 92.8                   | 92.8 | 92.0 | 0.81                     | 0.86 | 0.88 |

### GENERAL DATA

|                                       |           |                                      |           |
|---------------------------------------|-----------|--------------------------------------|-----------|
| Efficiency class                      | -         | Sound pressure level [dB]            | 66        |
| Frame size                            | 250       | Sound power level [dB]               | 76        |
| Number of poles                       | 6         | 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 [kg]                           | 575       | Feet - material                      | steel     |
| Moment of inertia [kgm <sup>2</sup> ] | 1.05      | 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 |  |  |
|------------|----------------|--|--|