



## MOTOR DATA SHEET

Motor type: **3SGf315M4-E**

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

22-11-2024

| 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 | 132 | 175 | S1/S4 | 179 | 1480 | 853 | 2.5  | 2.2  | 5.9  | 94.7                   | 94.8 | 94.5 | 0.83                     | 0.88 | 0.90 |

| GENERAL DATA                          |           |                                      |           |
|---------------------------------------|-----------|--------------------------------------|-----------|
| Efficiency class                      | -         | Sound pressure level [dB]            | 81        |
| Frame size                            | 315       | Sound power level [dB]               | 91        |
| 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 318    |
| Frequency converter supply            | on demand | Bearing on ND-side                   | 6318 C3   |
| Mounting arrangement                  | IMB35     | Bearings regreasing                  | yes       |
| Cooling method                        | IC411     | Housing - material                   | steel     |
| Weight [kg]                           | 1060      | Feet - material                      | steel     |
| Moment of inertia [kgm <sup>2</sup> ] | 2.4       | 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 |  |