



## MOTOR DATA SHEET

Motor type: **(E)cSg180M4-EP**

Series: **FLAMEPROOF IE1**

04-05-2025

### 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 | Y     | 50 | 18.5 | 25 | S1   | 32.5 | 1465 | 121 | 2.3  | 2.9  | 6.9  | 90.3                   | 90.9 | 90.8 | 0.82                     | 0.88 | 0.90 |

### GENERAL DATA

|                                       |                             |                                      |           |
|---------------------------------------|-----------------------------|--------------------------------------|-----------|
| Efficiency class                      | -                           | Sound pressure level [dB]            | 68        |
| Frame size                            | 180                         | Sound power level [dB]               | 78        |
| Number of poles                       | 4                           | Terminal box position                | top       |
| Starting method                       | DOL                         | Possibility of terminal box rotation | no        |
| Insulation class                      | F                           | Bearing on D-side                    | 63112Z    |
| Frequency converter supply            | on request - execution (-f) | Bearing on ND-side                   | 63112Z    |
| Mounting arrangement                  | IMB3/B5/B35                 | Bearings regreasing                  | no        |
| Cooling method                        | IC411                       | Housing - material                   | cast iron |
| Weight (IMB3) [kg]                    | 205                         | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.11                        | 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 100          |                              |            |

### ACCESSORY

|                                |           |                                 |           |
|--------------------------------|-----------|---------------------------------|-----------|
| Number of terminals or cables  | 3         | Temperature sensors in bearings | on demand |
| Cable glands/inlets            | 1         | Winding heaters                 | on demand |
| Temperature sensors in winding | on demand | 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 | II 2G Ex db eb IIC T5 Gb /<br>II 2G Ex db IIB T5 Gb |  |
|------------|---|--|