



## MOTOR DATA SHEET

Motor type: **(E)cSg180L4-EP**

Series: **FLAMEPROOF IE1**

15-03-2025

| 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 | 22 | 30 | S1   | 38.6 | 1465 | 143 | 2.5  | 2.9  | 7.2  | 92.3                   | 92.4 | 91.5 | 0.79                     | 0.87 | 0.90 |

| GENERAL DATA                          |                             |                                      |           |
|---------------------------------------|-----------------------------|--------------------------------------|-----------|
| Efficiency class                      | -                           | Sound pressure level [dB]            | 70        |
| Frame size                            | 180                         | Sound power level [dB]               | 80        |
| 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]                    | 225                         | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.13                        | 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 / II 2G Ex db IIB T5 Gb |  |