

## MOTOR DATA SHEET

Motor type: **(E)cSTe(b)180L4-IE3**

Series: **FLAMEPROOF IE3**



11-05-2025

### 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 | 22 | 30 | S1   | 41 | 1475 | 142 | 3.2  | 3.6  | 8.5  | 91.4                   | 92.8 | 93.0 | 0.67                     | 0.79 | 0.83 |

### GENERAL DATA

|                                       |             |                                      |            |
|---------------------------------------|-------------|--------------------------------------|------------|
| Efficiency class                      | IE3         | Sound pressure level [dB]            | -          |
| Frame size                            | 180         | Sound power level [dB]               | -          |
| Number of poles                       | 4           | Terminal box position                | top        |
| Starting method                       | DOL         | Possibility of terminal box rotation | yes        |
| Insulation class                      | F           | Bearing on D-side                    | 6311 2Z C3 |
| Frequency converter supply            | on demand   | Bearing on ND-side                   | 6311 2Z C3 |
| Mounting arrangement                  | IMB3/B5/B35 | Bearings regreasing                  | on demand  |
| Cooling method                        | IC411       | Housing - material                   | cast iron  |
| Weight (IMB3) [kg]                    | 320         | Feet - material                      | cast iron  |
| Moment of inertia [kgm <sup>2</sup> ] | 0.185       | 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 95           |                              |            |

### 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) IIB T5 Gb<br>lub na życzenie II 2G Ex<br>db (eb) IIC T5 Gb |  |
|------------|-----------------------------------------------------------------------------|--|