



## MOTOR DATA SHEET

Motor type: **(E)cSTe(b)90S2-IE3**

Series: **FLAMEPROOF IE3**

20-04-2024

### 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  | N   | -    | -    | -    | 2/4                    | 3/4  | 4/4  | 2/4                      | 3/4  | 4/4  |
| 400 | Y     | 50 | 1.5 | 2.0 | S1   | 3.0 | 2925 | 4.9 | 2.4  | 3.5  | 7.3  | 82.7                   | 84.4 | 84.2 | 0.64                     | 0.77 | 0.85 |

### GENERAL DATA

|                                       |                 |                                      |            |
|---------------------------------------|-----------------|--------------------------------------|------------|
| Efficiency class                      | IE3             | Sound pressure level [dB]            | -          |
| Frame size                            | 90              | Sound power level [dB]               | -          |
| Number of poles                       | 2               | Terminal box position                | top        |
| Starting method                       | DOL             | Possibility of terminal box rotation | yes        |
| Insulation class                      | F               | Bearing on D-side                    | 6205 2Z C3 |
| Frequency converter supply            | on demand       | Bearing on ND-side                   | 6205 2Z C3 |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | no         |
| Cooling method                        | IC411           | Housing - material                   | cast iron  |
| Weight (IMB3) [kg]                    | 46              | Feet - material                      | cast iron  |
| Moment of inertia [kgm <sup>2</sup> ] | 0.0014          | 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 |  |
|------------|---|--|