

MOTOR DATA SHEET

Motor type: **(E)cSTe(b)90L2-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 | 2.2 | 3.0 | S1 | 4.3 | 2910 | 7.2 | 2.7 | 4.0 | 8.0 | 85.4 | 86.5 | 85.9 | 0.67 | 0.80 | 0.86 |

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] | 50 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.0019 | 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 lub na życzenie II 2G Ex db (eb) IIC T5 Gb | |
|------------|---|--|