



## MOTOR DATA SHEET

Motor type: **ExSh90L-4-3GT3**

Series: **Non sparking**

16-06-2025

### 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 | 1.5 | 2  | S1   | 3.5 | 1410 | 10.16 | 2.5  | 2.8  | 5.3  | 77.6                   | 80.0 | 79.0 | 0.58                     | 0.70 | 0.78 |

### GENERAL DATA

|                                       |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | -               | Sound pressure level [dB]            | 56        |
| Frame size                            | 90              | Sound power level [dB]               | 66        |
| Number of poles                       | 4               | Terminal box position                | top       |
| Starting method                       | DOL             | Possibility of terminal box rotation | yes       |
| Insulation class                      | F               | Bearing on D-side                    | 62052Z    |
| Frequency converter supply            | on demand       | Bearing on ND-side                   | 62052Z    |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | no        |
| Cooling method                        | IC411           | Housing - material                   | aluminium |
| Weight (IMB3) [kg]                    | 16.5            | Feet - material                      | aluminium |
| Moment of inertia [kgm <sup>2</sup> ] | 0.0028          | Bearing shields - material           | aluminium |
| 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  | 6         | Temperature sensors in bearings | on demand |
| Cable glands/inlets            | 2         | Winding heaters                 | no        |
| Temperature sensors in winding | on demand | Optional accessories            | on demand |

### STANDARDS

EN 60079-0, EN 60079-15

### CERTIFICATES

ATEX

### ADDITIONAL INFO

|            |                         |  |
|------------|-------------------------|--|
| Ex marking | II 3G ExnA IIC T3-T4 Gc |  |
|------------|-------------------------|--|