



## MOTOR DATA SHEET

Motor type: **ExSh90S-6-2GT3\_2D**

Series: **GAS AND DUST - CATEGORY 2D, 3D, 3G**

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 | 0.75 | 1  | S1   | 2.1 | 915 | 7.8 | 1.9  | 2.1  | 5.3  | 66.6                   | 70.2 | 69.8 | 0.49                     | 0.62 | 0.73 |

| GENERAL DATA                          |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | -               | Sound pressure level [dB]            | 53        |
| Frame size                            | 90              | Sound power level [dB]               | 63        |
| Number of poles                       | 6               | Terminal box position                | top       |
| Starting method                       | DOL             | Possibility of terminal box rotation | yes       |
| Insulation class                      | F               | Bearing on D-side                    | 62052Z    |
| Frequency converter supply            | no              | Bearing on ND-side                   | 62052Z    |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | no        |
| Cooling method                        | IC411           | Housing - material                   | aluminium |
| Weight (IMB3) [kg]                    | 12.1            | Feet - material                      | aluminium |
| Moment of inertia [kgm <sup>2</sup> ] | 0.002           | Bearing shields - material           | aluminium |
| Direction of rotation                 | CW/CCW          | Painting                             | RAL5010   |
| Degree of protection                  | IP66            | 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                 | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories            | on demand |

| STANDARDS  |  |
|--|--|
| EN 60034-1, EN 60079-0, EN 60079-7, EN 60079-15, EN 60079-31 |  |

| CERTIFICATES |  |
|--------------|--|
| ATEX         |  |

| ADDITIONAL INFO |   |  |
|-----------------|---|--|
| Ex marking      | II 2G Ex eb IIC T3 Gb / II<br>2D Ex tb IIIC T125°C Db |  |