



## MOTOR DATA SHEET

Motor type: **ExSh90L-2-2GT3\_2D**

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

02-05-2024

### 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 | 2.2 | 3  | S1   | 4.7 | 2860 | 7.3 | 3    | 3.2  | 7.1  | 78.7                   | 81.2 | 81.7 | 0.61                     | 0.73 | 0.82 |

### GENERAL DATA

|                                       |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | -               | Sound pressure level [dB]            | 68        |
| Frame size                            | 90              | Sound power level [dB]               | 78        |
| Number of poles                       | 2               | 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 [kg]                           | 15.9            | 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 2D Ex tb IIIC T125°C Db |  |
|------------|----------------------------------------------------|--|