



## MOTOR DATA SHEET

Motor type: **ExSg180L-4-2GT3\_2D**

Series: **Gas and Dust - category 2D, 3D, 3G**

27-09-2024

### 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  | Nm    | -    | -    | -    | 2/4                    | 3/4  | 4/4  | 2/4                      | 3/4  | 4/4  |
| 400 | Δ     | 50 | 22 | 30 | S1   | 38.3 | 1465 | 143.4 | 2.8  | 2.6  | 4.65 | 91.7                   | 92.2 | 91.7 | 0.80                     | 0.88 | 0.90 |

### GENERAL DATA

|                                       |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | -               | Sound pressure level [dB]            | 69        |
| Frame size                            | 180             | Sound power level [dB]               | 80        |
| Number of poles                       | 4               | Terminal box position                | top       |
| Starting method                       | DOL or Y/Δ      | Possibility of terminal box rotation | yes       |
| Insulation class                      | F               | Bearing on D-side                    | 63112Z    |
| Frequency converter supply            | no              | Bearing on ND-side                   | 63112Z    |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | yes       |
| Cooling method                        | IC411           | Housing - material                   | cast iron |
| Weight [kg]                           | 200             | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.185           | Bearing shields - material           | cast iron |
| 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 |  |
|------------|---|--|