



## MOTOR DATA SHEET

Motor type: **3Sg180L4-(2D,3D)**

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

22-12-2024

| 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   | 38.6 | 1465 | 143 | 2.5  | 2.9  | 7.2  | 92.3                   | 92.4 | 91.5 | 0.79                     | 0.87 | 0.90 |

| GENERAL DATA                          |                       |                                      |           |
|---------------------------------------|-----------------------|--------------------------------------|-----------|
| Efficiency class                      | -                     | Sound pressure level [dB]            | 70        |
| 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            | on demand             | Bearing on ND-side                   | 63112Z    |
| Mounting arrangement                  | IMB3/B5/B35           | Bearings regreasing                  | no        |
| Cooling method                        | IC411                 | Housing - material                   | cast iron |
| Weight (IMB3) [kg]                    | 225                   | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.13                  | Bearing shields - material           | cast iron |
| Direction of rotation                 | CW/CCW                | Painting                             | RAL5010   |
| Degree of protection                  | IP66 (2D) / IP56 (3D) | 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 | 1 x PTC (D-side) |
| Cable glands/inlets            | 2 + 1   | Winding heaters                 | on demand        |
| Temperature sensors in winding | 3 x PTC | Optional accessories            | on demand        |

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

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

| ADDITIONAL INFO |                                                               |  |
|-----------------|---------------------------------------------------------------|--|
| Ex marking      | II 2D,3D Ex t IIIC,IIIB<br>T100°C Db / II 3G ExnA II<br>T5 Gc |  |