

## **MOTOR DATA SHEET**

Motor type: **Ex3SIE90S2-2GT3** 

Series: Increased safety IE3



30-11-2025

| ELECTRICAL PARAMETERS |       |    |     |    |      |   |      |     |      |      |      |        |             |       |       |               |         |
|-----------------------|-------|----|-----|----|------|---|------|-----|------|------|------|--------|-------------|-------|-------|---------------|---------|
| U                     | CONN. | f  | ı   | D  | Duty | 1 | n    | Т   | TL/T | TB/T | IL/I | Effici | ency at loa | d [%] | Power | r factor at l | oad [-] |
| V                     | -     | Hz | kW  | HP | -    | Α | rpm  | Nm  | -    | -    | -    | 2/4    | 3/4         | 4/4   | 2/4   | 3/4           | 4/4     |
| 400                   | Y     | 50 | 1.5 | 2  | S1   | 3 | 2925 | 4.9 | 2.4  | 3.5  | 9.3  | 82.7   | 84.4        | 84.2  |       |               | 0.85    |

| GENERAL DATA               |                 |                                      |           |  |  |  |
|----------------------------|-----------------|--------------------------------------|-----------|--|--|--|
| Efficiency class           | IE3             | Sound pressure level [dB]            | 63        |  |  |  |
| Frame size                 | 90              | Sound power level [dB]               | 75        |  |  |  |
| Number of poles            | 2               | Terminal box position                | top       |  |  |  |
| Starting method            | DOL             | Possibility of terminal box rotation | no        |  |  |  |
| Insulation class           | F               | Bearing on D-side                    | 62052Z    |  |  |  |
| Frequency converter supply | yes             | 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 [kgm2]   | 0.0014          | 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 60034-1, EN-IEC 60079-0, EN 60079-7 |

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

|  | ADDITIO | NAL INFO   |                    |  |  |
|--|---------|------------|--------------------|--|--|
| tE heating time up to T3 temperature [s] | 8.5     | Ex marking | II 2G Ex eb IIC T3 |  |  |

