



## MOTOR DATA SHEET

Motor type: **dSg90S4**

Series: **General purpose**

28-12-2024

### 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  |
| 1000 | Y     | 50 | 1.1 | 1.5 | S1   | 1.1 | 1405 | 7.5 | 2.1  | 2.6  | 4.5  | 71.0                   | 74.5 | 75.0 | 0.58                     | 0.74 | 0.80 |

### GENERAL DATA

|                                       |             |                                      |           |
|---------------------------------------|-------------|--------------------------------------|-----------|
| Efficiency class                      | -           | Sound pressure level [dB]            | 52        |
| Frame size                            | 90          | Sound power level [dB]               | 62        |
| Number of poles                       | 4           | Terminal box position                | top       |
| Starting method                       | DOL         | Possibility of terminal box rotation | no        |
| Insulation class                      | F           | Bearing on D-side                    | 62052Z    |
| Frequency converter supply            | on demand   | Bearing on ND-side                   | 62052Z    |
| Mounting arrangement                  | IMB3/B5/B35 | Bearings regreasing                  | no        |
| Cooling method                        | IC411       | Housing - material                   | cast iron |
| Weight (IMB3) [kg]                    | 34.5        | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.0023      | Bearing shields - material           | cast iron |
| Direction of rotation                 | CW/CCW      | Painting                             | RAL5010   |
| Degree of protection                  | IP54        | 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 100          |                              |            |

### ACCESSORY

|                                |           |                                 |           |
|--------------------------------|-----------|---------------------------------|-----------|
| Number of terminals or cables  | 3         | Temperature sensors in bearings | on demand |
| Cable glands/inlets            | 1         | Winding heaters                 | on demand |
| Temperature sensors in winding | on demand | Optional accessories            | on demand |

### STANDARDS

IEC 60034-1, IEC 60079-0, IEC 60079-1

### CERTIFICATES

ATEX, EAC, BiH

### ADDITIONAL INFO

|            |  |  |
|------------|--|--|
| Ex marking | I M2 Ex db I Mb / II2G Ex db IIB T5 Gb |  |
|------------|--|--|