



## MOTOR DATA SHEET

Motor type: **Sh500H2D**

Series: **High efficiency**

18-05-2024

### 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  |
| 6000 | Y     | 50 | 1250 | 1680 | S1   | 139 | 2989 | 3994 | 0.6  | 2.2  | 5.9  | -                      | -   | 97.5 | -                        | -   | 0.89 |

### GENERAL DATA

|                                       |                                    |                                      |             |
|---------------------------------------|------------------------------------|--------------------------------------|-------------|
| Efficiency class                      | -                                  | Sound pressure level [dB]            | 83          |
| Frame size                            | 500                                | Sound power level [dB]               | -           |
| Number of poles                       | 2                                  | Terminal box position                | top         |
| Starting method                       | DOL                                | Possibility of terminal box rotation | yes         |
| Insulation class                      | F                                  | Bearing on D-side                    | EFNLB11-100 |
| Frequency converter supply            | on demand                          | Bearing on ND-side                   | EFNLQ9-100  |
| Mounting arrangement                  | B3/B35                             | Bearings regreasing                  | yes         |
| Cooling method                        | IC411                              | Housing - material                   | cast iron   |
| Weight [kg]                           | 6700                               | Feet - material                      | cast iron   |
| Moment of inertia [kgm <sup>2</sup> ] | 30                                 | Bearing shields - material           | cast iron   |
| Direction of rotation                 | CW or CCW (according to the order) | 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  | 3                        | Temperature sensors in bearings | 2 x Pt100 (1 pc/bearing) |
| Cable glands/inlets            | 1                        | Winding heaters                 | on demand                |
| Temperature sensors in winding | 6 x Pt100 (2 pcs./phase) | Optional accessories            | on demand                |

### STANDARDS

|             |
|-------------|
| IEC 60034-1 |
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### CERTIFICATES

|           |
|-----------|
| on demand |
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