



## MOTOR DATA SHEET

Motor type: **Sh450H4C**

Series: **HIGH EFFICIENCY**

23-05-2025

### 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  |
| 6000 | Y     | 50 | 800 | 1080 | S1   | 89 | 1493 | 5117 | 0.9  | 2.4  | 6.7  | -                      | -   | 97.2 | -                        | -   | 0.89 |

### GENERAL DATA

|                                       |                                    |                                      |                    |
|---------------------------------------|------------------------------------|--------------------------------------|--------------------|
| Efficiency class                      | -                                  | Sound pressure level [dB]            | 83                 |
| Frame size                            | 450                                | Sound power level [dB]               | -                  |
| Number of poles                       | 4                                  | Terminal box position                | top/ * side        |
| Starting method                       | DOL                                | Possibility of terminal box rotation | yes                |
| Insulation class                      | F                                  | Bearing on D-side                    | 6324MC3            |
| Frequency converter supply            | on demand                          | Bearing on ND-side                   | NU222EM1/*7322BTVP |
| Mounting arrangement                  | B3/B35/V1*                         | Bearings regreasing                  | yes                |
| Cooling method                        | IC411                              | Housing - material                   | cast iron          |
| Weight (IMB3) [kg]                    | 4450                               | Feet - material                      | cast iron          |
| Moment of inertia [kgm <sup>2</sup> ] | 26.3                               | 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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