



## MOTOR DATA SHEET

Motor type: **Sh450H10C**

Series: **HIGH EFFICIENCY**

15-01-2025

| 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 | 355 | 480 | S1   | 44.2 | 594 | 5707 | 1    | 2.6  | 6    | -                      | -   | 95.4 | -                        | -   | 0.81 |

| GENERAL DATA                          |            |                                      |                    |
|---------------------------------------|------------|--------------------------------------|--------------------|
| Efficiency class                      | -          | Sound pressure level [dB]            | 77                 |
| Frame size                            | 450        | Sound power level [dB]               | -                  |
| Number of poles                       | 10         | 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]                    | 4300       | Feet - material                      | cast iron          |
| Moment of inertia [kgm <sup>2</sup> ] | 55         | Bearing shields - material           | cast iron          |
| 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  | 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 |  |

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