



# MOTOR DATA SHEET

Motor type: **Sh450H10B**

Series: **High efficiency**

08-06-2025

## 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 | 315 | 430 | S1   | 39.3 | 594 | 5064 | 1    | 2.5  | 5.9  | -                      | -   | 95.3 | -                        | -   | 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]                    | 4060       | Feet - material                      | cast iron          |
| Moment of inertia [kgm <sup>2</sup> ] | 48.5       | 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