

# MOTOR DATA SHEET

Motor type: **Sh450H10As**

Series: **ABOVE 8-POLES**



14-12-2024

## ELECTRICAL PARAMETERS

| U   | CONN.  | f  | P   |     | Duty | I   | n   | T    | TL/T | TB/T | IL/I | Efficiency at load [%] |      |      | Power factor at load [-] |      |      |
|-----|--------|----|-----|-----|------|-----|-----|------|------|------|------|------------------------|------|------|--------------------------|------|------|
|     |        |    | kW  | HP  |      |     |     |      |      |      |      | -                      | -    | -    | 2/4                      | 3/4  | 4/4  |
| 690 | Δ or Y | 50 | 355 | 480 | S1   | 392 | 595 | 5698 | 0.8  | 2.1  | 6.0  | 94.3                   | 94.9 | 94.8 | 0.63                     | 0.75 | 0.80 |

## GENERAL DATA

|                                       |               |                                      |                    |
|---------------------------------------|---------------|--------------------------------------|--------------------|
| Efficiency class                      | -             | Sound pressure level [dB]            | 78                 |
| Frame size                            | 450           | Sound power level [dB]               | -                  |
| Number of poles                       | 10            | Terminal box position                | top/ * side        |
| Starting method                       | direct or VSD | Possibility of terminal box rotation | yes                |
| Insulation class                      | F             | Bearing on D-side                    | 6324 C3            |
| Frequency converter supply            | yes           | Bearing on ND-side                   | NU222 /* 7322 BTVP |
| Mounting arrangement                  | IMB3/B35/V1*  | Bearings regreasing                  | yes                |
| Cooling method                        | IC411         | Housing - material                   | cast iron          |
| Weight (IMB3) [kg]                    | 3850          | Feet - material                      | cast iron          |
| Moment of inertia [kgm <sup>2</sup> ] | 39.0          | Bearing shields - material           | cast iron          |
| Direction of rotation                 | CW/CCW        | Painting                             | RAL5010            |
| Degree of protection                  | IP55          | Climatic execution                   | N                  |

## ENVIRONMENTAL CONDITIONS

|                          |           |                              |            |
|--------------------------|-----------|------------------------------|------------|
| Ambient temperature [°C] | 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            | 3                       | Winding heaters                 | on demand                |
| Temperature sensors in winding | 6 x Pt100 (2pcs./phase) | Optional accessories            | on demand                |

## STANDARDS

IEC 60034-1

## CERTIFICATES

on demand