



MOTOR DATA SHEET

Motor type: **Sh450H2D**

Series: **HIGH EFFICIENCY**

26-12-2024

| ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | | |
|-----------------------|-------|----|-----|------|------|----|------|------|------|------|------|------------------------|-----|------|--------------------------|-----|------|
| U | CONN. | f | P | | Duty | I | n | T | TL/T | TB/T | IL/I | Efficiency at load [%] | | | Power factor at load [-] | | |
| 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 | 88 | 2989 | 2556 | 0.9 | 2.8 | 7.2 | - | - | 97.3 | - | - | 0.90 |

| GENERAL DATA | | | |
|---------------------------------------|------------------------------------|--------------------------------------|----------------------|
| Efficiency class | - | Sound pressure level [dB] | 84 |
| Frame size | 450 | 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 | EFNLB9-90 or 6318MC3 |
| Frequency converter supply | on demand | Bearing on ND-side | EFNLQ9-90 or 6318MC3 |
| Mounting arrangement | B3/B35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 4250 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 14 | 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 | |

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