



MOTOR DATA SHEET

Motor type: **Sh450H2C**

Series: **HIGH EFFICIENCY**

03-02-2026

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 | 710 | 950 | S1 | 79 | 2987 | 2270 | 0.8 | 2.8 | 6.9 | - | - | 96.7 | - | - | 0.89 |

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] | 4190 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 13.1 | 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 |
|-----------|