

MOTOR DATA SHEET

Motor type: **Sh450H10Cs**



Series: **ABOVE 8-POLES**

11-01-2026

| ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | | |
|-----------------------|--------|----------|-----------|-----------|------|----------|------------|-----------|-------------|-------------|-------------|------------------------|------|------|--------------------------|------|------|
| <i>U</i> | CONN. | <i>f</i> | <i>P</i> | | Duty | <i>I</i> | <i>n</i> | <i>T</i> | <i>TL/T</i> | <i>TB/T</i> | <i>IL/I</i> | Efficiency at load [%] | | | Power factor at load [-] | | |
| <i>V</i> | - | Hz | <i>kW</i> | <i>HP</i> | - | A | <i>rpm</i> | <i>Nm</i> | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 690 | Δ or Y | 50 | 450 | 600 | S1 | 483 | 595 | 7223 | 0.8 | 2.0 | 5.8 | 94.7 | 95.1 | 95.0 | 0.67 | 0.77 | 0.81 |

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] | 4280 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 52.0 | 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