



MOTOR DATA SHEET

Motor type: **Sh450H12Es**

Series: **ABOVE 8-POLES**

13-06-2025

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 |
| 400 | Δ or Y | 50 | 355 | 480 | S1 | 707 | 494 | 6863 | 0.9 | 2.4 | 5.6 | 93.4 | 94.1 | 94.1 | 0.58 | 0.71 | 0.77 |

GENERAL DATA

| | | | |
|---------------------------------------|---------------|--------------------------------------|--------------------|
| Efficiency class | - | Sound pressure level [dB] | 74 |
| Frame size | 450 | Sound power level [dB] | - |
| Number of poles | 12 | 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] | 4330 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 41.7 | 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

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| IEC 60034-1 |
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CERTIFICATES

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| on demand |
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