

MOTOR DATA SHEET

Motor type: **3SIE450H6D**

Series: **IE3**



21-11-2025

| | ELECTRICAL PARAMETERS | | | | | | | | | | | | | | | | |
|-----|-----------------------|----|-----|-----|------|-----|-----|------|------|------|------|--------|-------------|-------|-------|---------------|---------|
| U | CONN. | f | ŀ | • | Duty | 1 | n | Т | TL/T | TB/T | IL/I | Effici | ency at loa | d [%] | Power | r factor at l | oad [-] |
| V | - | Hz | kW | HP | - | Α | rpm | Nm | - | - | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 | 4/4 |
| 690 | Δ or Y | 50 | 710 | 950 | S1 | 711 | 994 | 6821 | 1.4 | 2.6 | 7.4 | 95.5 | 96.0 | 96.1 | 0.75 | 0.84 | 0.87 |

| GENERAL DATA | | | | | | |
|----------------------------|---------------|--------------------------------------|--------------------|--|--|--|
| Efficiency class | IE3 | Sound pressure level [dB] | 80 | | | |
| Frame size | 450 | Sound power level [dB] | - | | | |
| Number of poles | 6 | 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] | 4890 | Feet - material | cast iron | | | |
| Moment of inertia [kgm2] | 50.0 | 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 | | | | | |

