



MOTOR DATA SHEET

Motor type: **2Sg280S6**

Series: **IE1**

26-04-2025

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 | 50 | 45 | 60 | S1 | 80 | 985 | 436 | 2.0 | 2.3 | 6.5 | 92.2 | 93.0 | 93.0 | 0.79 | 0.85 | 0.87 |
| 690 | Y | 50 | 45 | 60 | S1 | 47 | 985 | 436 | 2.0 | 2.3 | 6.5 | 92.2 | 93.0 | 93.0 | 0.79 | 0.85 | 0.87 |

GENERAL DATA

| | | | |
|---------------------------------------|-------------|--------------------------------------|---------------|
| Efficiency class | - | Sound pressure level [dB] | 73 |
| Frame size | 280 | Sound power level [dB] | 83 |
| Number of poles | 6 | Terminal box position | on right side |
| Starting method | DOL or Y/Δ | Possibility of terminal box rotation | yes |
| Insulation class | F | Bearing on D-side | 6317C3 |
| Frequency converter supply | yes | Bearing on ND-side | 6317C3 |
| Mounting arrangement | IMB3/B5/B35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 525 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 1.35 | 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 | 6 | Temperature sensors in bearings | on demand |
| Cable glands/inlets | 2 + 1 | Winding heaters | on demand |
| Temperature sensors in winding | 3 x PTC | Optional accessories | on demand |

STANDARDS

IEC 60034-1

CERTIFICATES

on demand