



MOTOR DATA SHEET

Motor type: **2SUDg280M6(S3-25%)**

Series: **For cranes**

14-03-2025

ELECTRICAL PARAMETERS

| U | CONN. | f | P | | Duty | I | n | T | TL/T | TB/T | IL/I | Efficiency at load [%] | | | Power factor at load [-] | | |
|-----|-------|----|----|-----|--------|-----|-----|-----|------|------|------|------------------------|-----|------|--------------------------|-----|------|
| | | | kW | HP | | | | | | | | - | 2/4 | 3/4 | 4/4 | 2/4 | 3/4 |
| 400 | Y+Y | 50 | 85 | 116 | S3-25% | 158 | 970 | 835 | - | 2.4 | - | - | - | 91.5 | - | - | 0.85 |

GENERAL DATA

| | | | |
|---------------------------------------|---------------------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | - |
| Frame size | 280 | Sound power level [dB] | - |
| Number of poles | 6 | Terminal box position | top |
| Starting method | DOL with external starter | Possibility of terminal box rotation | no |
| Insulation class | F | Bearing on D-side | 6217 C3 |
| Frequency converter supply | on demand | Bearing on ND-side | 6217 C3 |
| Mounting arrangement | IMB3/B5/B35 | Bearings regreasing | yes |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 695 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 2.2 | 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+3 | 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

ADDITIONAL INFO

| | | | |
|------------------------|-------|-----------------------------------|-------|
| Rotor voltage [V] | 240 | Rotor current [A] | 221 |
| Rotor resistance [ohm] | 0.014 | Additional rotor resistance [ohm] | 0.627 |