

MOTOR DATA SHEET

Motor type: **SUDg160M-4(S3-40%)**

Series: **FOR CRANES**



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 | Y+Y | 50 | 10 | 13.4 | S3-40% | 20.6 | 1420 | 67.2 | - | 2.8 | - | 83.9 | 85.1 | 84.5 | 0.66 | 0.77 | 0.83 |

GENERAL DATA

| | | | |
|---------------------------------------|---------------------------|--------------------------------------|-----------|
| Efficiency class | - | Sound pressure level [dB] | 74 |
| Frame size | 160 | Sound power level [dB] | 63 |
| Number of poles | 4 | Terminal box position | top |
| Starting method | DOL with external starter | Possibility of terminal box rotation | no |
| Insulation class | F | Bearing on D-side | 6309 2Z |
| Frequency converter supply | on demand | Bearing on ND-side | 6309 2Z |
| Mounting arrangement | IMB3/B5/B35 | Bearings regreasing | no |
| Cooling method | IC411 | Housing - material | cast iron |
| Weight (IMB3) [kg] | 130 | Feet - material | cast iron |
| Moment of inertia [kgm ²] | 0.077 | Bearing shields - material | cast iron |
| Direction of rotation | CW/CCW | Painting | RAL5010 |
| Degree of protection | IP44 | 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] | 175 | Rotor current [A] | 37.2 |
| Rotor resistance [ohm] | 0.087 | Additional rotor resistance [ohm] | 2.72 |