

## MOTOR DATA SHEET

Motor type: **SUDf100L-4B(S3-40%)**

Series: **For cranes**



15-06-2025

### 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 | Y+Y   | 50 | 1.7 | 2.3 | S3-40% | 4.2 | 1310 | 12.4 | -    | 2.3  | -    | 73.0                   | 73.9 | 72.1 | 0.62                     | 0.75 | 0.82 |

### GENERAL DATA

|                                       |                           |                                      |           |
|---------------------------------------|---------------------------|--------------------------------------|-----------|
| Efficiency class                      | -                         | Sound pressure level [dB]            | 70        |
| Frame size                            | 100                       | Sound power level [dB]               | 60        |
| 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                    | 6306 2Z   |
| Frequency converter supply            | on demand                 | Bearing on ND-side                   | 6306 2Z   |
| Mounting arrangement                  | IMB3/B5/B35               | Bearings regreasing                  | no        |
| Cooling method                        | IC411                     | Housing - material                   | cast iron |
| Weight (IMB3) [kg]                    | 45                        | Feet - material                      | cast iron |
| Moment of inertia [kgm <sup>2</sup> ] | 0.01                      | 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]      | 40    | Rotor current [A]                 | 25.3 |
| Rotor resistance [ohm] | 0.052 | Additional rotor resistance [ohm] | 0.91 |