



## MOTOR DATA SHEET

Motor type: **3SIE100L4A**

Series: **IE3**

24-09-2020

### 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  |
| 230 | Δ     | 50 | 2.2 | 3.0 | S1   | 8.0 | 1465 | 14.3 | 2.5  | 3.3  | 7.1  | 84.4                   | 86.4 | 86.7 | 0.58                     | 0.71 | 0.80 |
| 400 | Y     | 50 | 2.2 | 3.0 | S1   | 4.6 | 1465 | 14.3 | 2.5  | 3.3  | 7.1  | 84.4                   | 86.4 | 86.7 | 0.58                     | 0.71 | 0.80 |

### GENERAL DATA

|                                       |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | IE3             | Sound pressure level [dB]            | 55        |
| Frame size                            | 100             | Sound power level [dB]               | 67        |
| Number of poles                       | 4               | Terminal box position                | top       |
| Starting method                       | DOL or Y/Δ      | Possibility of terminal box rotation | yes       |
| Insulation class                      | F               | Bearing on D-side                    | 62062Z    |
| Frequency converter supply            | yes             | Bearing on ND-side                   | 6206C3    |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | no        |
| Cooling method                        | IC411           | Housing - material                   | aluminium |
| Weight (IMB3) [kg]                    | 27.5            | Feet - material                      | aluminium |
| Moment of inertia [kgm <sup>2</sup> ] | 0.0076          | Bearing shields - material           | aluminium |
| 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            | 1         | Winding heaters                 | on demand |
| Temperature sensors in winding | on demand | Optional accessories            | on demand |

### STANDARDS

IEC 60034-1

### CERTIFICATES

on demand