



## MOTOR DATA SHEET

Motor type: **Sh80X-8D**

Series: **IE1**

04-12-2024

### 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 | 0.55 | 0.75 | S1   | 4.20 | 690 | 7.61 | 2.1  | 2.2  | 2.5  | 48.7                   | 55.8 | 59.0 | 0.41                     | 0.52 | 0.60 |
| 400 | Y     | 50 | 0.55 | 0.75 | S1   | 2.40 | 690 | 7.61 | 2.1  | 2.2  | 2.5  | 48.7                   | 55.8 | 59.0 | 0.41                     | 0.52 | 0.60 |

### GENERAL DATA

|                                       |                 |                                      |           |
|---------------------------------------|-----------------|--------------------------------------|-----------|
| Efficiency class                      | -               | Sound pressure level [dB]            | 52        |
| Frame size                            | 80              | Sound power level [dB]               | 59        |
| Number of poles                       | 8               | Terminal box position                | top       |
| Starting method                       | DOL or Y/Δ      | Possibility of terminal box rotation | yes       |
| Insulation class                      | F               | Bearing on D-side                    | 62042Z    |
| Frequency converter supply            | yes             | Bearing on ND-side                   | 62042Z    |
| Mounting arrangement                  | IMB3/B5/B35/B14 | Bearings regreasing                  | no        |
| Cooling method                        | IC411           | Housing - material                   | aluminium |
| Weight (IMB3) [kg]                    | 12.7            | Feet - material                      | aluminium |
| Moment of inertia [kgm <sup>2</sup> ] | 0.003451        | Bearing shields - material           | aluminium |
| Direction of rotation                 | CW/CCW          | Painting                             | RAL5010   |
| Degree of protection                  | IP 54/IP 55     | Climatic execution                   | U/2       |

### 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 | no        |
| 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