# DRN100L4

SEW-EURODRIVE GmbH & Co KG · DRN Three-Phase Asynchronous Motor

## FEATURES

4-pole IE3 three-phase asynchronous motor rated 3 kW at 400 V, 50 Hz, operating duty S1, part of the SEW DRN.. modular motor system.

## Hardware

**Motor type:**
Squirrel-cage three-phase asynchronous (TEFC), 4 poles

**Insulation class:**
Thermal class 155 (F) per IEC 60034-1 (thermal class 180 (H) on request, per DRN series)

**Cooling method:**
TEFC - totally enclosed fan-cooled (IC 411 per IEC 60034-6)

**Mounting arrangement:**
IM B35 (foot-mounted with flange) standard; IM B3 / IM B5 / IM B14 available per order option

**Duty type:**
S1 (continuous operation), line and inverter duty (VPWM per IEC 60034)

## Electrical

**Rated power:**
3 kW

**Rated voltage:**
400 V nominal, 3-phase, 50 Hz (Δ connection; star/delta changeover for 230/400 V or 400/690 V supply per size)

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**Rated current:**
6.4 A at 400 V, 50 Hz

**Rated speed:**
1456 $min^{-1}$ at rated load

**Rated torque:**
19.7 Nm

**Efficiency:**
IE3 (Premium Efficiency per IEC 60034-30-1); η at 100% load = 87.8 % (η at 75% = 88.3 %, η at 50% = 87.3 % at 400 V, 50 Hz)

**Power factor:**
cos φ = 0.76

## Environmental

**Operating temperature:**
-20 to +40 °C ambient (rated output at max +40 °C and ≤1000 m above sea level)

**Storage temperature:**
-15 to +70 °C (per SEW official technical data doc 31974465, family-level for DRN.. motor series)

**Protection rating:**
IP55 per IEC 60034-5 (up to IP66 on request)

**Relative humidity:**
Non-condensing (no specific %RH value published by manufacturer for DRN motor series; per IEC 60034-1 standard motor environmental conditions)

**Insulation class:**
Class 155 (F)

## Physical

**Dimensions (H×W×D):**
Not published as numerical table (overall envelope dimensions not published in the SEW motor-inverter assignment table; consult SEW dimension sheets)

**Weight:**

34 kg (motor weight mMot per SEW official rated-data table)

## Lifecycle

**Current SEW-EURODRIVE product line; DRN.. is the IE3 successor to the DRS../DR2S.. series and is listed on the official SEW global DR.. product page (Last verified:**

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