DRN280M4

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

FEATURES

4-pole IE3 three-phase asynchronous motor rated 90 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:
90 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:
161 A at 400 V, 50 Hz

Rated speed:
1481 min^{-1} at rated load

Rated torque:
580 Nm

Efficiency:
IE3 (Premium Efficiency per IEC 60034-30-1); η at 100% load = 95.2 % (η at 75% = 95.6 %, η at 50% = 95.4 % at 400 V, 50 Hz)

Power factor:
cos φ = 0.84

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:

630 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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