

# Design criteria

#### A) Rules:

Electrical design DIN EN 60034-1 (VDE 0530-1)

**Performance rating** Thermal class F

**Site altitude** < 1000 m above sea level

**Ambient temperature** 40°C max.

Converter-fed

 induction motors
 DIN VDE 0530-17 (VDE 0530-17)

 Mechanical design
 DIN EN 60034-7 (DE 0530-7)

 DIN EN 60034-5 (VDE 0530-5)

**Protection class** IP 54 totally enclosed,

**Vibration level** fan cooled terminal box, IP 55-rated DIN EN 60034-14 (VDE 0530-14)

 $V_{eff} \le 1.8 \text{ mm/s}$  in the delivered state

**Balancing** Vibration level R or S in accordance with DIN ISO 2373 upon request

#### **B)** General:

**Low-Voltage Directive** 2006/95/EC

Motors are intended for installation in machines according to Machine Directive 2006/42/EC, but are subject to the Low-Voltage Directive.

**Energy efficiency** IEC 600 34 – 30 : 2008; EuP Directive 640/2009

Scope: low-voltage motors connected directly to 50 or 60 Hz and continuous duty. Not included are motors exclusively built for converter operations as well

as brake motors.

### C) The following are possible upon request:

**Country-specific regulations** USA NEMA MG1

Canada CSA C22.2 No. 100, file L.R 16865 for selected Types, upon request

**Dust protection** DIN EN 61241-1 (Zone 20-22)

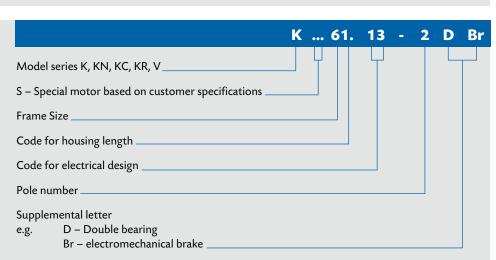
Increased dust protection in accordance with ATEX protection zone 22 for

non-conductive dust

## Breakdown of Type designation

## **Example**

Note: performance data, rated voltage and frequency are not coded in the type - designation. These are indicated in plain text. The shaft design is provided in the drawings. The type designation does not provide complete order information!



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