

Convection-cooled induction motor made of stainless steel

ISK

Up to 210W

compact stainless steel AC motor

Technical features

Corrosion- and water-resistant drive for:

- Food applications
- Pharmaceutical applications
- Offshore applications

Convection or water cooling possible

Protection class up to IP69K

All drive technologies are also available in stainless steel housings

phase isolation

Integrated thermal monitor (normally closed contact)

VES31, VES40, ZKS30, or IEC gearboxes can be attached



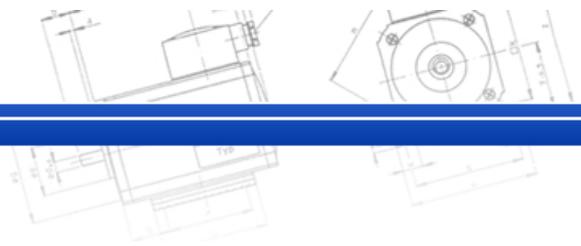
Whether induction, DC, or servo motors: we now offer almost all motor principles in stainless steel housings. This allows us to combine decades of drive expertise with the highest hygiene standards—ideal for applications in the food, chemical, pharmaceutical, and offshore industries.

Our stainless steel motors are durable, corrosion-resistant, and—depending on the cooling concept—achieve peak performances well above the market average. For example, the water-cooled servo motor from the **Silver Line® series delivers up to 2,600 W at 6,000 rpm.**

Whether you need a standard motor in a stainless steel housing or a customized complete solution consisting of a motor, gearbox, and electronics, with **Bretzel you can count on maximum efficiency, reliability, and hygiene.**

Licenses:





Available types with performance data

type	Phases/ Frequen- cy	rated voltage	rated power	rated speed	rated torque	rated current	power consum- ption	Relative tightening torque	Relative tipping moment	Efficie- ncy	power factor	weight	winding
[ISK]	[f]	[V]	[W]	[Min ⁻¹]	[Ncm]	[A]	[W]	-	-	-	-	[kg]	-

2-pole

90-80	3~ / 50	400	210	2770	73	0,53	282	3,1	3,1	0,75	0,81	7,4	18364- 01
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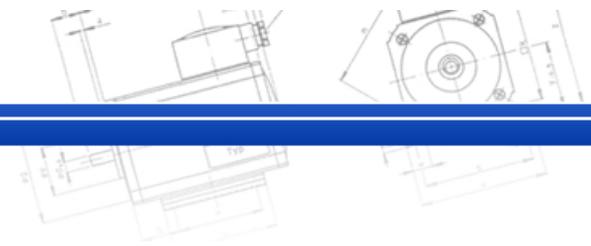
Technical data for the series

engine technology	2- or 4-pole three-phase asynchronous motors for mains operation, can also be operated with 1x 230 V frequency converter or 3x 400 V frequency converter as standard
circuit	Star/delta, 400/230 V
insulation class	F (max. winding temperature 155 °C)
enclosure	stainless steel
design	B14
Protection class ^[1]	Up to IP69K possible (in combination with attached gearbox)
cooling system	Convection cooling (fanless cooling or water cooling via the surface of the drive, standard for continuous operation, ED = 100%)
connection system	terminal compartment
paintwork	none

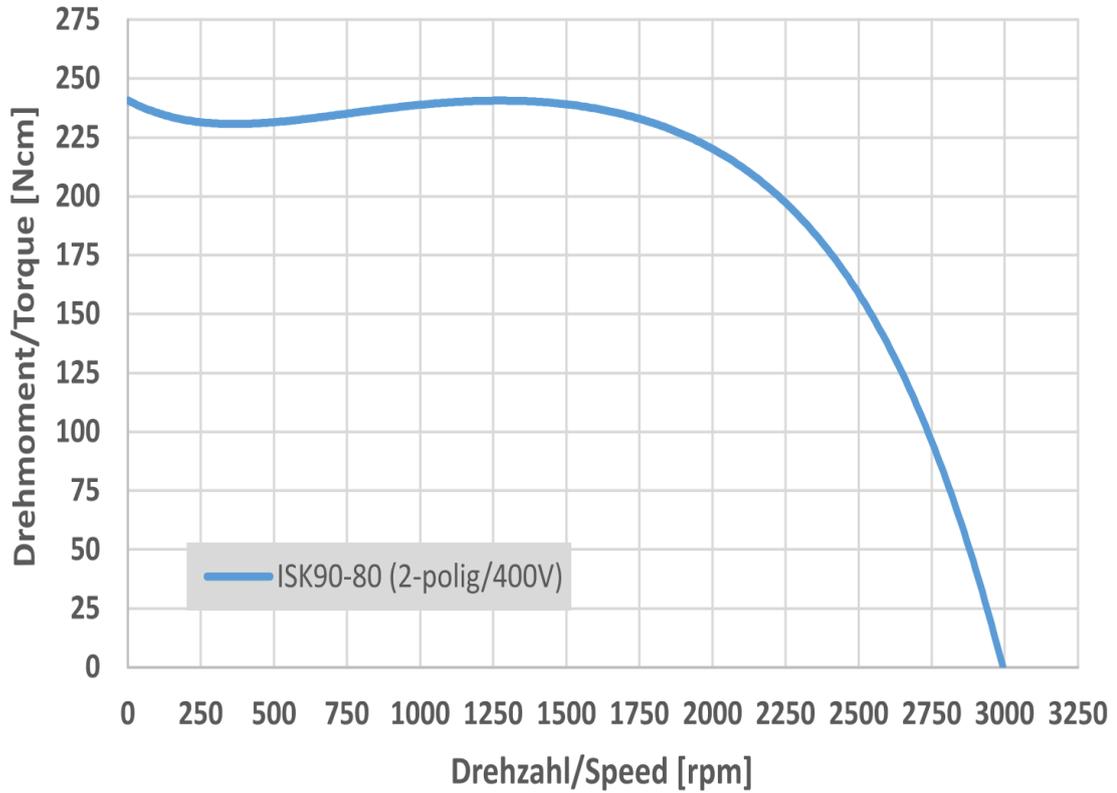
^[1] Information on protection classes refers to the assembled condition with gear unit. The IP protection class applies exclusively to the electrical equipment. Protection classes for gear units must be requested separately.

possible options

electrically	<ul style="list-style-type: none"> • Special voltage and speed • Increased torques for short-term operation
mechanically	Special designs available on request
breaks	24 V DC or 205 V DC
transmitter systems	Encoder, resolver, tachogenerator
temperature monitoring	Thermal monitor with normally closed contact or triple PTC

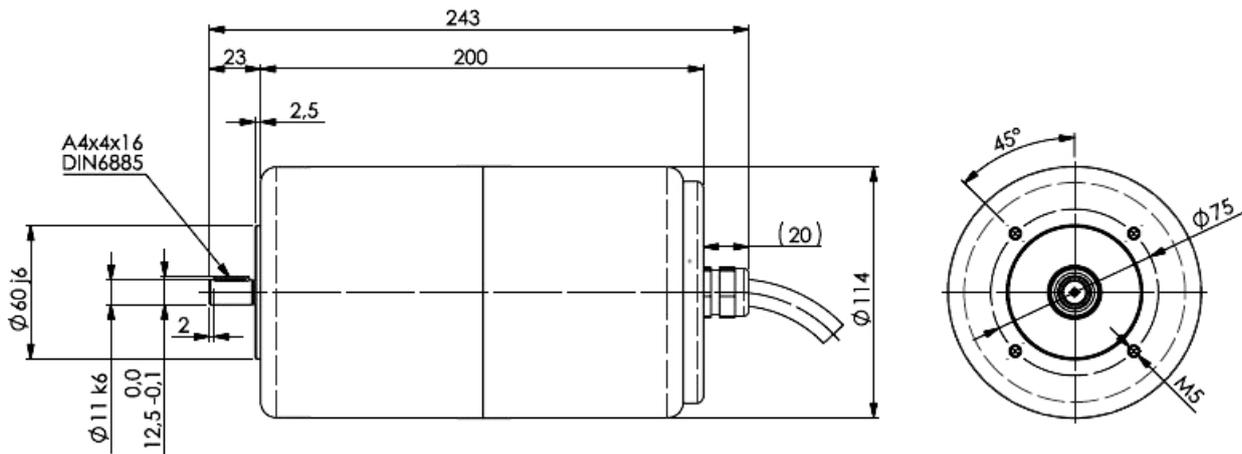


Speed-torque characteristic curve



Drawing

ISK90-80 construction type B14 (flange type IEC63)



- Flange and shaft end can be customer-specific adapted
- Protection class IP 69K only guaranteed with suitable mounted gear unit

Subject to modification