

We use cookies to optimize the design of this website and constantly enhance your experience. By continuing to use this website, you are agreeing to the use of cookies. Further information is available in our [data privacy notice](#).

OK

NRND

EC 22 Ø22 mm, brushless, 100 Watt, with Hall sensors

Part number 386675



- ▶ Compare product
- ▶ Add to wish list
- ▶ Make a request
- ✉ Send to a colleague

Price scales		
Price per unit	1-4	€220.09
	5-19	€189.55
	20-49	€156.18
	from 50	On request
Prices excluding VAT and shipping costs		

Enlarge image

Start combination

Order quantity

1

+

-

Add to cart

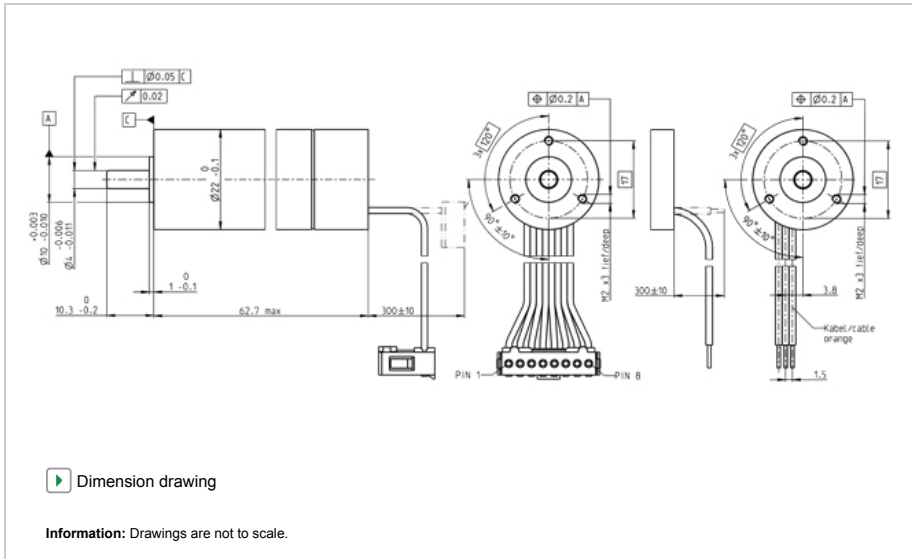
Print specifications

Description

The electronically commutated **EC motors** are characterized especially by their favorable torque characteristics, high power, extremely broad speed range and, of course, by their unsurpassed service life.

Specifications

Technical illustrations



Values at nominal voltage

Nominal voltage	48 V
No load speed	32100 rpm
No load current	149 mA
Nominal speed	30000 rpm
Nominal torque (max. continuous torque)	47.6 mNm
Nominal current (max. continuous current)	3.45 A
Stall torque	857 mNm
Stall current	60.2 A
Max. efficiency	90 %

Characteristics

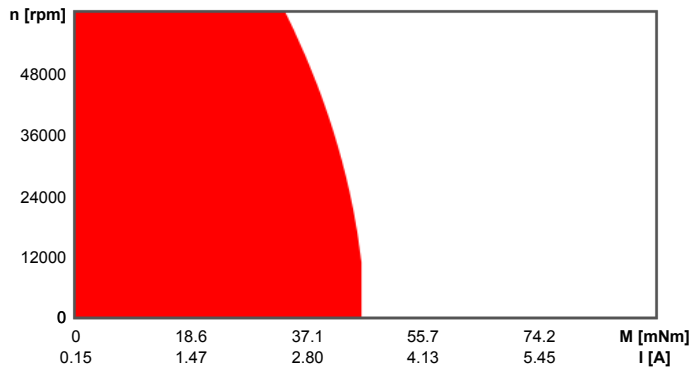
Terminal resistance	0.797 Ω
Terminal inductance	0.118 mH
Torque constant	14.2 mNm/A
Speed constant	672 rpm/V
Speed / torque gradient	37.6 rpm/mNm
Mechanical time constant	1.61 ms
Rotor inertia	4.09 gcm²

Thermal data

Thermal resistance housing-ambient	7 K/W
Thermal resistance winding-housing	1 K/W
Thermal time constant winding	4.74 s

	Thermal time constant motor	355 s
	Ambient temperature	-20...+100 °C
	Max. winding temperature	+155 °C

Operating Range



Continuous operation range

☐ Short term operation range

Downloads

	CAD-Files (STEP)	
	CAD drawing (STEP) (ZIP 308 KB)	Version 2017
	Other	
	Connector (PDF 76 KB)	Version 2013
	Catalog page	
	Katalogseiten (deutsch, PDF 92 KB)	Version 2017
	Catalog page (english, PDF 98 KB)	Version 2017
	カタログページ (日本語, PDF 110 KB)	Version 2017