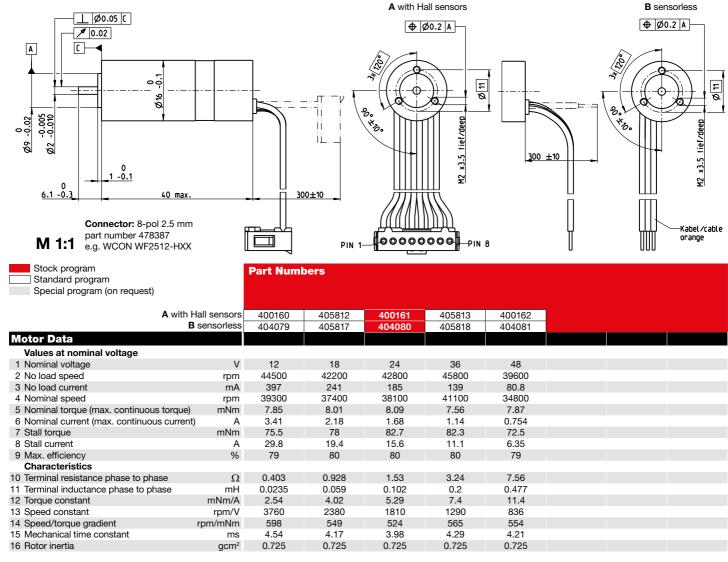
EC 16 Ø16 mm, brushless, 30 Watt



Specifications Operating Range Comments Thermal data 16.3 K/W Thermal resistance housing-ambient Thermal resistance winding-housing Thermal time constant winding In observation of above listed thermal resistance 1.68 K/W 1.97 s 30 W (lines 17 and 18) the maximum permissible wind-70000 20 Thermal time constant inc 21 Ambient temperature 22 Max. winding temperature Thermal time constant motor Ambient temperature 240 s -20...+100°C ing temperature will be reached during continuous operation at 25°C ambient. +155°C 50000 = Thermal limit. Mechanical data (preloaded ball bearings) 70000 rpm Short term operation 24 Axial play at axial load < 3.5 N > 3.5 N 0 mm max. 0.14 mm The motor may be briefly overloaded (recurring). 15000 25 Radial play 26 Max. axial load (dynamic) preloaded 3 N 35 N 250 N 2.0 4.0 6.0 M [mNm] Assigned power rating Max. force for press fits (static) (static, shaft supported) 2.0 3.0 28 Max. radial load, 5 mm from flange 10 N Other specifications maxon Modular System Number of pole pairs Number of phases Overview on page 28-36 **Planetary Gearhead** for type A: Weight of motor Ø16 mm **Encoder MR** 0.1 - 0.6 Nm 128/256/512 CPT. Values listed in the table are nominal. Page 320/321 Page 403 Planetary Gearhead Recommended Electronics: Connection A

Notes

ESCON Module 24/2

ESCON Module 50/5

ESCON Mod. 50/4 EC-S

DEC Module 24/2, 50/5

EPOS4 Mod./CB 24/1.5 EPOS4 Module/CB 50/5

EPOS2 24/2, Module 36/2 434 EPOS2 24/5, EPOS2 50/5 435

ESCON 36/3 FC

ESCON 50/5

EPOS2 P 24/5

MAXPOS 50/5

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426

427

427

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438

441

442

Ø22 mm

Page 325

0.5 - 1.0 Nm

Spindle Drive ∅16 mm

Page 361-363

brown red

orange yellow

green blue

violet

brown

orange

red

Motor winding 1 Motor winding 2

Motor winding 3 V_{Hall} 3...24 VDC GND

Hall sensor 1

Hall sensor 2

grey Hall sensor 3 Pin 8 Wiring diagram for Hall sensors see p. 41

> Motor winding 1 Motor winding 2

Motor winding 3

Connection B (Cable AWG 24)

Pin 2

Pin 3 Pin 4

Pin 5

Pin 6 Pin 7