

Data sheet

Motorized Torque Control System

UD5M1000-030-NGNG2

Main functions	
Nominal moment	100 Nm
Max. axial force	2000 N
Max. radial force	1000 N
Nominal revolution	300 U/min
Nominal acceleration α	333,3°/s ²
Dwell time of nominal moment	unlimited at <10 U/min
Weight mechanics	37,5 kg
Max. mass moment of inertia of customer tool at α Nom ^{***}	0,465 kg*m ²
Torque	
Measuring principle	DMS
System accuracy*	< 1 % with 2-point-calibration / < 0,5 % with characteristic map
Amplifier PDM-S / (WxHxD)	Aluminum die-cast / 125 x 80 x 57 mm
Output signal	digital
Protection class	IP40
Power supply	19...36 VDC (3 W)
Distance measuring	
Feedback device	Multiturn
Repeatability of positioning**	< 5 arcmin
Servo amplifier	
Type	M702-034-00078-A
Dimensions (WxHxD)	83 x 382 x 200 mm
Mains voltage	3 AC 380 V ... 480 V, +/-10 %
Cable cross section (input)	IEC 2,5 mm ² / UL 14 AWG
Cable cross section (output)	IEC 2,5 mm ² / UL 14 AWG
Protection class (DIN 60529)	IP20
Weight	4,5 kg

Servo amplifier	
Recommended protection	IEC 20 A gG UL/USA 20 A CC or J
Temperature range	-20 °C...+50 °C
Power loss	186 W
Line filter	
Weight	2 kg
Cable cross section (input)	4 mm ² / 12 AWG
Power loss	13 W
Dimensions (WxHxD)	83 x 426 x 41 mm
Protection class (DIN 60529)	IP20
Interfaces	
PC	Ethernet
PLC (24 VDC)	3I / 4O
PLC Fieldbus	Profibus, Profinet, EtherCat, EtherNet/IP, Modbus/TCP
Extension Options	PDM-A: 4x analogue / PDM-P: Piezo / PDM-I/O: 16I / 16O

* Force measuring system, static calibration in relation to the reference system

** at thermal steady-state

All nominal values refer to 400 V mains voltage.

***Larger mass inertias are possible, but can negatively influence the optimum controllability of the unit and/or the acceleration must be reduced. Additional load moments reduce the specified moments of inertia accordingly.

Order code: **UD5M1000-030-NGNG2**

Drive feedback device

M: Multiturn / I: Singleturn

Nominal torque in Nm/10

Nominal rot. speed in U/min*10

Add. feedback device

N: none / M: Multiturn

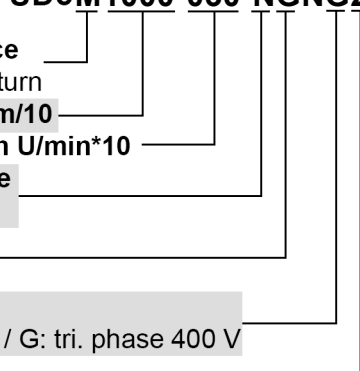
Output shaft

G: flat / P: fitted key

Drive voltage

Z: single phase 230 V / G: tri. phase 400 V

Revision number



For more efficiency.

