

DynXRotary Series

Data sheet

Version 5.0





PRECISION POSITIONING STAGE ROTARY SERIES



VALUES 100 (3.94) 117 (4.61) 40.5 (1.59) Ø 35 (Ø 1.37) 1.42 (3.13) 5.93 E-4 VALUES 2.32 0.488 0.370 0.161 1.3 E-3 VALUES 20 (44.4) 10 (22.2) 20 (44.4) VALUES 400 37000 ± 0.2	
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TYPICAL VALUES	
F0	
± 50	
± 3	
± 1.5	
± 2	
0.5	
± 2.5	
20	
± 5	
TTB0090-020-3NA	
0.361	
0.208	
5.56	
5.56 1.22	
6.90	
1.42	
4.07	
1.07	
300	
300 20.7	
300	

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Ball bearing, 4 contact points

Low

Туре

Preload

ENCODER CHARACTERISTICS	
Encoder type	Non-contact, optical, metal disc
Signal type	Incremental
Output signal	1 Vpp or TTL
Number of lines of the grating disk	10'000

WORKING ENVIRONMENT	
Clean room compatibility (12)	ISO 5 (referred to ISO 14644-1 standard)
	Class 100 (referred to US Fed Std 209E)
IP protection grade (13)	IP40

MATERIALS AND FINISH	
Base	Aluminum / Black anodized
Shaft	Stainless steel

OPTIONS					
TTL encoder output signal (14)	Interpolation factor	5x	10x	50x	100x
	Max. speed [rpm] (15)	400	400	200	100
Limited stroke	< 360°	From 21° to 336° by step of 45°			
	> 360°		39)1°	
Air purge		Bidirectional pneumatic fitting			

ACCESSORIES	
ACCESSURIES	
	Extension cables
	EXTENSION CADIES

The DynX Rotary Series proposed by ETEL are fully compliant with the Machinery Directive 2006/42/EC as long as the system is used under the working conditions described in the DynX Hanbook. Customer is responsible for setting safeties/limitations that will keep the motor in its safe operating area. ETEL cannot be held responsible if the stage is used in an improper way.

Notes: The specifications given may be mutually exclusive.

- (1) Without limited stroke.
- (2) Tolerances: refer to the DynX Hanbook.
- (3) Coils at 80 °C, ambiant temperature at 20 °C and additional surface of 0.02 m² fixed to the base and 0.007 m² to the rotor.
- (4) Indicative load capacity with a payload centered on the stage. Please contact ETEL for any other case.
- (5) Indicative load capacity with the stage is the horizontal position, with a payload centered on the carriage and the center of gravity 20 mm above the interface surface of the carriage.
- (6) Recommended value. Please contact ETEL in case of greater requirements.
- (7) With an AccurET modular 300, at encoder level.
- (8) Values measured on a precision mounting surface (typical flatness 15 µm).
- (9) All mounting screws used. Specifications measured with an AccurET modular 300. The typical ambient temperature during the measurements is 22°C.
- (10) Value measured 14 mm above the interface surface of the carriage.
- (11) Terminal to terminal.
- (12) ISO 4 (class 10) on request.
- (13) Please contact ETEL for more stringent needs.
- (14) With TTL encoder cable adaptor.
- (15) For an input frequency of 10 MHz on an AccurET modular 300 position controller (input frequency is controller dependent). Limited by the interpolation chip.

