

ROLLERDRIVE EC310

RollerDrive with a long service life for a wide range of applications

Product Description

- Internal commutation electronics (brushless motor)
- 9 gear stages
- Constant conveyor speed
- Energy recovery in braking (see also p 195)
- Electronic holding brake (Zero-Motion-Hold) for driving falling conveyors
- Motor cable with 5-pin snap-in plug, without the need for complex screwing

Technical Data

General technical data				
Mechanical power	32 W			
Max. noise level	50 dB(A) (application-dependent)			
Possible static bearing load Slave side: Female thread / Spring-loaded shaft	1100 N			
Slave side: PolyVee with female thread / spring-loaded shaft Round belt head with female thread / with spring-loaded shaft	350 N			
Electrical data				
Rated voltage	24 V DC			
Temporarily permissible voltage range	18 to 28 V DC			
Idle current	0.4 A			
Rated current	2.0 A			
Max. start-up current	5.0 A			
Permissible voltage undulation	< 3 %			
Protection rate	IP54			
Dimensions				
Tube diameter / Wall thickness	50 x 1.5 mm; 51 x 2 mm			
Max. reference length	1,500 mm			
Ambient conditions				
Ambient temperature in operation	0 to +40 °C			
Ambient temperature during transport and storage	-30 to +75 °C			
Max. air humidity	85 %			

Product Selection

The following tables provide an overview of the possible versions.

0	1	
Gear ratio	Max. conveyor speed	Rated torque
	m/s	Nm
9:1	1.75	0.45
12:1	1.31	0.61
16:1	0.98	0.81
20:1	0.79	1.01
24:1	0.65	1.21
36:1	0.44	1.82
48:1	0.33	2.42
64:1	0.25	3.23
96:1	0.16	4.84

Tube material	Stainless stee aluminium
Motor shaft	11 mm with h
Motor shaft material	Stainless stee
Tube sleeve	PVC hose 2 /
	5 mm, tapere
Length of motor cable	0.48 m

8 9 V Identification number Gears Tube version of RollerDrive **D** = 9:1 JAA = steel, zinc-plated; diameter 50 x 1.5 mm; without grooves Motor version **F** = 12:1 JAD = steel, zinc-plated; diameter 50 x 1.5 mm; 1 groove 9 = 24 V EC310 **H** =16:1 JAE = steel, zinc-plated; diameter 50 x 1.5 mm; 2 grooves **K** = 20:1 NAA = steel, stainless; diameter 50 x 1.5 mm; without grooves L = 24:1 **NAD** = steel, stainless; diameter 50 x 1.5 mm; 1 groove **Q** = 36:1 NAE = steel, stainless; diameter 50 x 1.5 mm; 2 grooves **V** = 48:1 JB6 = steel, zinc-plated; diameter 51 x 2 mm; without grooves **X** = 64:1 JCJ = steel, zinc-plated; diameter 51 x 2 mm; 1 groove **Z** = 96:1 JCD = steel, zinc-plated; diameter 51 x 2 mm; 2 grooves Motor shaft version NB6 = steel, stainless; diameter 51 x 2 mm; without grooves V = for normal temperature

> Assembly & design on non-cable side 6FT = Bearing housing without torque transmission, female thread, uncoated ball bearing, stainless steel fixing material 6FN= Bearing housing without torque transmission, female thread, stainless steel ball bearing, stainless steel fixing material 8SL= Bearing housing without torque transmission, spring-loaded shaft, uncoated ball bearing, zinc-nickel-coated fixing material 5PF= PolyVee head, female thread, uncoated ball bearing, zinc-plated fixing material 5PS= PolyVee head, spring-loaded shaft, uncoated ball bearing, stainless steel fixing material 5PT= PolyVee head, spring-loaded shaft, stainless steel ball bearing, stainless steel fixing material 5RF= Round belt head, female thread, uncoated ball bearing, zinc-plated fixing material 5RS= Round belt head, spring-loaded shaft, uncoated ball bearing, stainless steel fixing material 6TF= Toothed belt head, female thread, stainless steel ball bearing, stainless steel fixing material 6SF= Double sprocket head, female thread, stainless steel ball bearing, stainless steel fixing material

Not all criteria can be combined: please ask about tapered tube designs and tube coatings



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Gear stage

Further versions

versions

Start-up torque	Zero motion hold
Nm	Nm
1.10	0.36
1.46	0.48
1.95	0.64
2.44	0.80
2.92	0.96
4.38	1.44
5.85	1.92
7.80	2.56
11.69	3.84

eel; steel, zinc-plated; steel, chrome-plated;

hex and thread M12 x 1 eel

/ 5 mm, PU hose 2 mm, rubber coating 2 to red tube sleeves



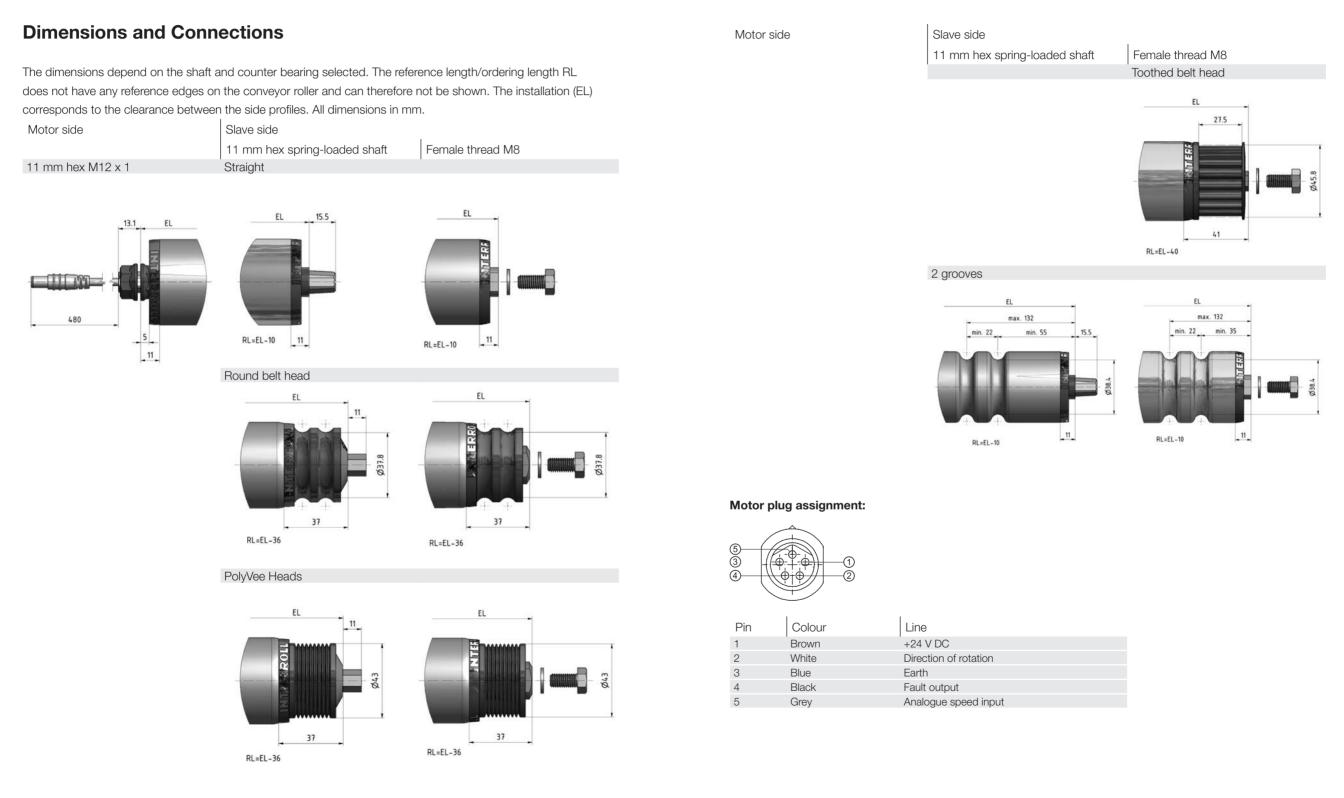
Reference number



Dimensions

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Motor plug