

UBL

Stepper Motors

Linear

UBL1/2

Dimensions (mm)	∅ 36 x 36
Travel (mm)	8; 13; 56 ± 0.7
Travel per step (mm)	0.033/0.041
Speed by 200 Hz (mm/s)	6.67/8.33
Resistance per winding	
bipolar/unipolar 6 V (Ω)	18.5/28
12 V (Ω)	100/120
24 V (Ω)	460/500
Max. Force (N)	35 (for special winding, lower lifetime)
Lifetime	on request



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1
Ambient temperature operation	°C -15...+60
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R _{therm}	27 K/W
Thermal class	B according to IEC 85
Approval	standard
Mounting	any position
Electrical connection	jack connector
Protection	IP 40 according to DIN EN 60529
Weight	90 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	ball bearing, for live lubricated
Electric strength	according to EN 60 034-1/EN 60335-1

Order Reference

Type	Stepper Motor	UBL	13	N	100 Ω	B	1A
Configuration	13 bipolar 23 unipolar						
Approval	N Approval Standard						
Resistance	See page 58 Resistance per winding for bipolar or unipolar.						
Connection	Jack connector 6 pin (other on request)						
Shaft	1A Travel 8 mm ± 0.7 mm (other on request)						

Technical Data

bipolar (UBL1)	Rated voltage U_N	V	6	12	24
	Resistance per winding	R_{20}	18,5	100	460
unipolar (UBL2)	Rated voltage U_N	V	6	12	24
	Resistance per winding	R_{20}	28	120	500
Steps per revolution			24		
Steps per mm			30/24		
Winding temperature T_{max}			130°C		
Duty cycle			100%		
Linear travel max.			8; 13; 56 ± 0.7		
Axial play at 20 N force			< 0,25 mm		
Axial force at 200 Hz F_A			10 N		

Dimensions

