

UAL 1/5; UAL 2/6

Dimensions (mm)	Ø 20 × 30
Travel (mm)	15
Travel per step (mm)	0,021
Thread pitch (mm)	0,5
Speed (mm/s) at 200 Hz	4,16
Step angle (°)	15
Max. Force (N)*	28



*Depends on winding, frequency and lifetime required.

Drive against end stops only permissible after clarification of operating conditions and approval by Saia-Burgess.

Radial forces on the shaft will reduce life time and performance.

Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 1992
Ambient temperature operation	°C -15 ... +60
Ambient temperature storage	°C -20 ... +100
Thermal resistance at f=0 R _{therm}	47 K/W
Thermal class	B according to DIN EN 60085 : 2004
Approval	standard
Mounting	any position
Electrical connection	lead wire with CT connector
Protection	IP 40 according to DIN EN 60529 : 2000
Weight	33 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	ball bearing

Order Reference

Type	Stepper Motor	UAL	1E	N	150 Ω	E	1A
Configuration	1A	bipolar, standard magnet, screw flange					
	1E	bipolar, standard magnet, bayonet flange					
	2A	unipolar, standard magnet, screw flange					
	2E	uniipolar, standard magnet, bayonet flange					
	5A	bipolar, stronger magnet, screw flange					
	5E	bipolar, stronger magnet, bayonet flange					
	6A	unipolar, stronger magnet, screw flange					
	6E	unipolar, stronger magnet, bayonet flange					
Approval	N	standard					
Resistance		see next page, resistance per winding for bipolar or unipolar					
Connection	E	100 mm lead with CT connector					
Shaft	1A	Travel 15 mm ± 0,7 mm (others on request)					

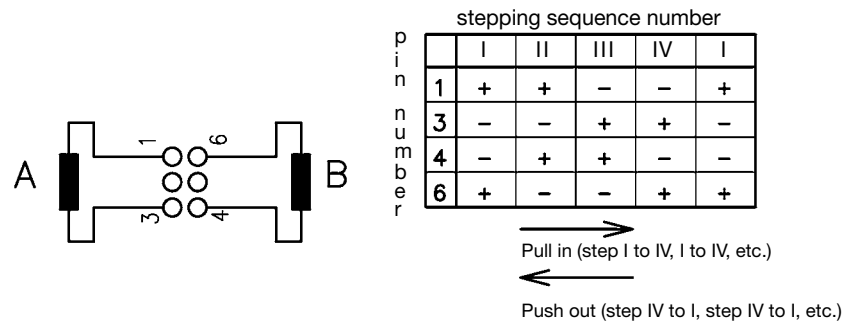
Technical Data

bipolar	type		UAL1	UAL1	UAL5	UAL5
	Operating frequency	Hz	100	200	100	200
	max. Push/Pull force *	25% duty cycle	N	–	28	23
		100% duty cycle	N	11	9	16
Rated voltage U_N :			V	6	12	24
Resistance per winding R_{20}			Ω	24	90	380
Steps per mm				48		
Duty cycle				100 %		
Winding temperature T_{max} °C			130			
Linear travel max.			mm	10/13		
Axial play at ± 20 N force mm				< 0,25		

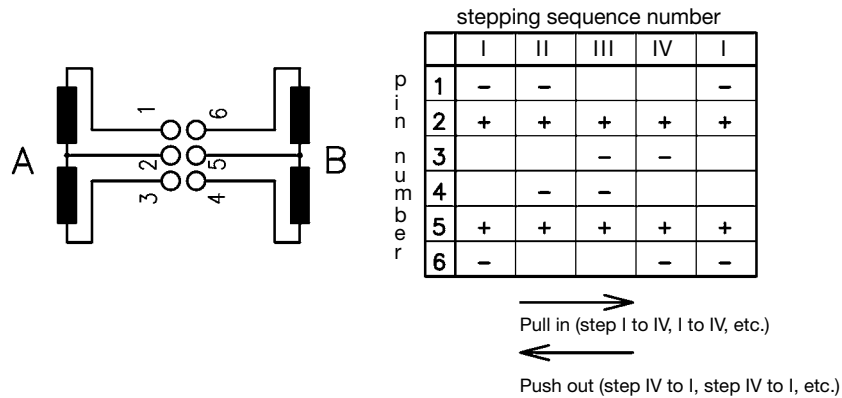
unipolar versions available upon request

* measured at 23 °C, lifetime depends on load characteristics and ambient conditions

Circuit diagram bipolar



unipolar



CT connector 2mm
AMP - 173977-4

O- Ring 14 x 1,25

Connecting dimensions bayonet mount

Al thickness 1,5 mm

Performance Chart

