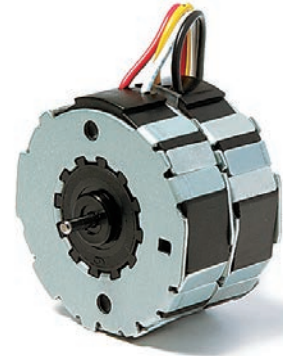


UBB1/2/5/6

Dimensions (mm)	∅ 36 x 21
Step angle (°)	15
Holding torque (cNm)	0.85–1.6
Detent torque (cNm)	0.21/0.31
Winding	bipolar/unipolar
Gear combination	D, M, B, F, V



Note: All torque and power output values are minimum values, at rated voltage and motor temperature 23°C.

Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 2015
Ambient temperature operation	°C -15...+55
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R _{therm}	27 K/W
Thermal class	105 (A) according to DIN EN 60085 : 2008
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	cable
Protection	IP40 according to DIN EN 60529 : 2014
Weight	60 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	sintered bronze, self-lubricating
Electric strength	according to DIN EN 60034-1/DIN EN 60335-1

Order Reference

Type	Stepper Motor		UBB	1	0	N	03	R	E
Configuration	1 bipolar, standard magnet	5 bipolar, stronger magnet							
	2 unipolar, standard magnet	6 unipolar, stronger magnet							
Rotor shaft, mounting	0 centring 8 mm, shaft 2.0 mm, clip	A centring 10 mm, shaft 2.0 mm, clip							
	1 centring 8 mm, shaft 1.5 mm, clip	C centring 10 mm, shaft 1.5 mm, clip							
	3 centring 8 mm, shaft 2.0 mm, screw plate	E centring 10 mm, shaft 2.0 mm, screw plate							
	4 centring 8 mm, shaft 1.5 mm, screw plate	K centring 10 mm, shaft 1.5 mm, screw plate							
Approval	N Approval Standard								
Resistance	See next page Resistance per winding for bipolar or unipolar.								
Direction	reversible								
Cable	E cable 150 mm (other on request)								

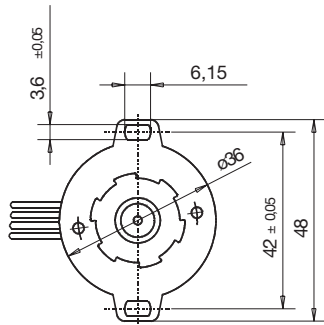
All specifications are representative only and maybe subject to variation. For confirmation of values, please contact Johnson Electric. Please also read "Saia Motors Important Notes" on catalog or at www.johnsonelectric.com/SaiaMotorsNotes



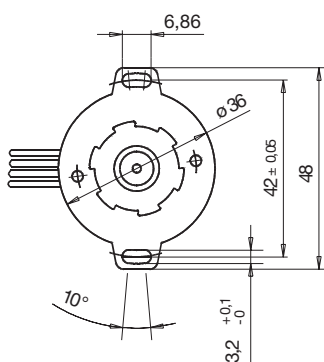
Technical Data

		UBB1	UBB5
bipolar			
	Holding torque M_H	cNm	1.3
	Detent torque M_S	cNm	0.21
	Rotor inertia J_R	gcm ²	2.8
UBB1/5	Rated voltage U_N	V	6
	Duty cycle	%	100
	Resistance R_{20}	Ω	18.5
	Winding code		03
			05
			06
unipolar		UBB2	UBB6
	Holding torque M_H	cNm	0.85
	Detent torque M_S	cNm	0.21
	Rotor inertia J_R	gcm ²	2.8
UBB2/6	Rated voltage U_N	V	6
	Duty cycle	%	100
	Resistance R_{20}	Ω	28
	Winding code		07
			08
			09
UBB3/7	Rated voltage U_N	V	6
	Duty cycle	%	100
	Resistance R_{20}	Ω	18.5
	Winding code		03
			05
			06
UBB4/8	Rated voltage U_N	V	6
	Duty cycle	%	100
	Resistance R_{20}	Ω	28
	Winding code		07
			08
			09
	Steps per revolution		24
	Winding temperature T_{max}	$^{\circ}C$	105
	Direction of rotation		reversible

Dimensions Mounting with screw plate



Mounting with screw plate



Mounting with snap-on clip (item no. 4199 48230)

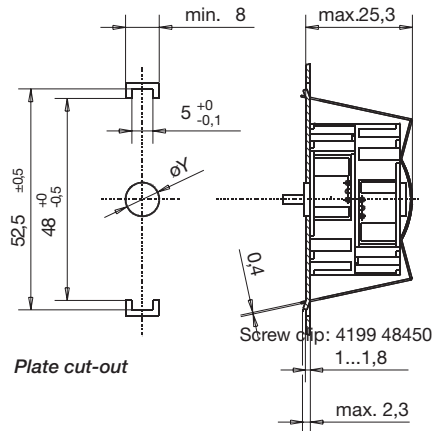


Plate cut-out

øD Rotor shaft

ø 2 h6

ø 1.5 js8

øZ øY

8 8F8

10 10F8

Performance Chart

