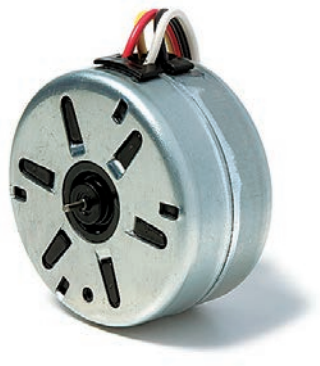
UDB

UDB1/2

Dimensions (mm)	∅ 48 x 24
Step angle (°)	15
Holding torque (cNm)	2.3/1.8
Detent torque (cNm)	0.3
Winding	bipolar/unipolar
Gear combination	D, M, B, F, V, J



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...+60
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R_{therm}	18 K/W
Thermal class	105 (A) according to DIN EN 60085 : 2008
Approval	standard
Mounting	any position
Electrical connection	cable
Protection	UDB1: IP30, UDB2: IP40 according to DIN EN 60529 : 2014
Weight	132 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

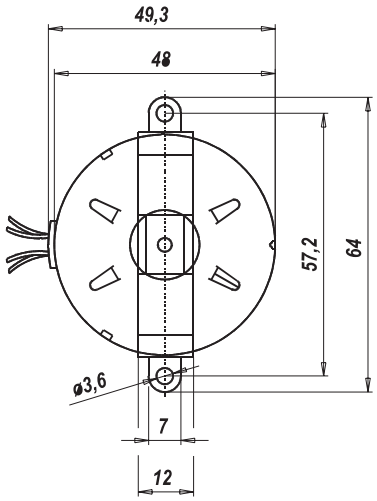
			UDB	1	0	N	02	R	N
Type	Stepper Motor								
Configuration	1	bipolar							
	2	unipolar							
Rotor shaft, mounting	0	centring 8 mm, shaft 1.5 mm, clip							
	1	centring 8 mm, shaft 2.0 mm, clip							
Approval	N	Approval Standard							
Resistance		See next page Resistance per winding for bipolar or unipolar.							
Direction		reversible							
Cable	N	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

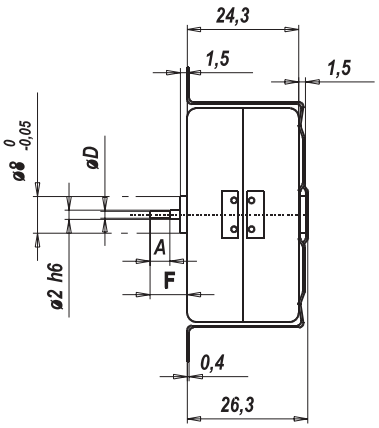
Technical Data

bipolar (UDB1)	Holding torque M_H	cNm	2.3		
	Detent torque M_S	cNm	0.3		
	Rotor inertia J_R	gcm2	6.3		
	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	15	78	350
	Winding code		01	02	03
unipolar (UDB2)	Holding torque M_H	cNm	1.8		
	Detent torque M_S	cNm	0.3		
	Rotor inertia J_R	gcm2	6.3		
	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	19	75	300
	Winding code		01	02	04
	Steps per revolution		24		
	Winding temperature T_{max}	°C	105		
	Direction of rotation		reversible		

Dimensions

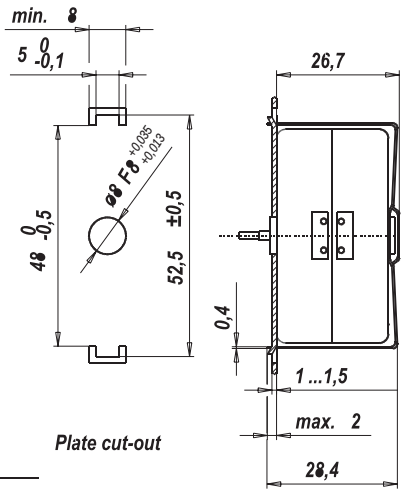


Mounting with screw clip
(item no. 4186 48080)

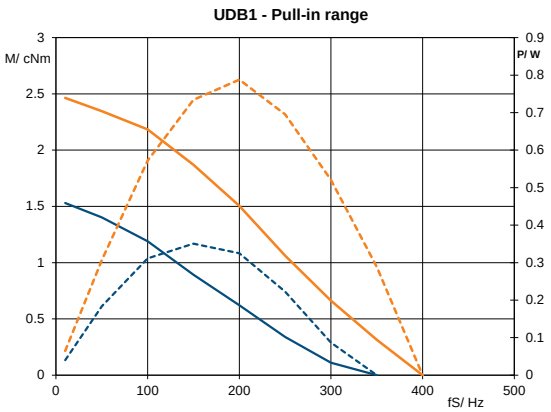


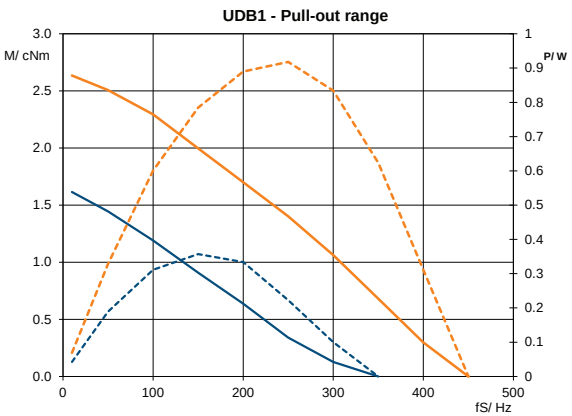
øD Rotor shaft	Dimension A	Dimension F
1,5js8 $^{+0,007}_{-0,007}$	4,3	6,5
2h6 $^{0}_{-0,006}$	—	8,2

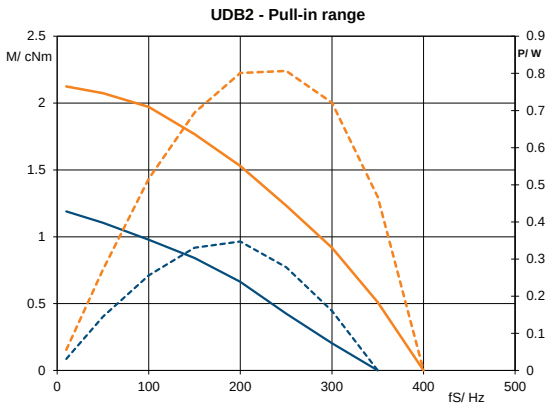
Mounting with snap-on clip
(item no. 4199 48040)

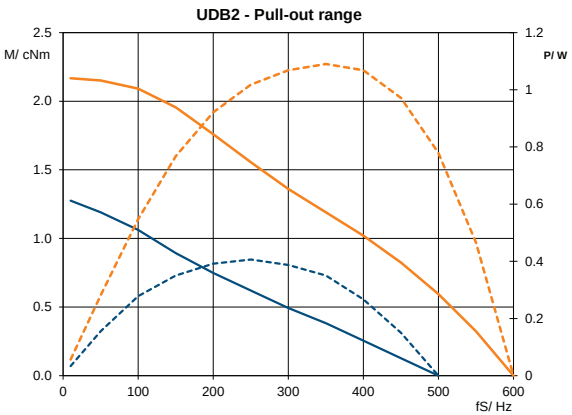


Performance Chart









M - Duty cycle 30 %
M - Duty cycle 100%
P - Duty cycle 30 %
P - Duty cycle 100 %