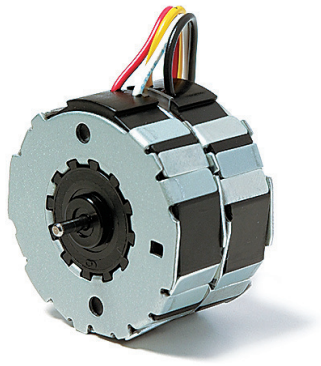
UBB

UBB1/2/5/6

Dimensions (mm)	∅ 36 x 21
Step angle (°)	15
Holding torque (cNm)	1.0–1.9
Detent torque (cNm)	0.25/0.36
Winding	bipolar/unipolar
Gear combination	D, M, B, F, V



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 1992
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 : 2004
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	cable
Protection	IP40 according to DIN EN 60529 : 2000
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	18.5	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)										

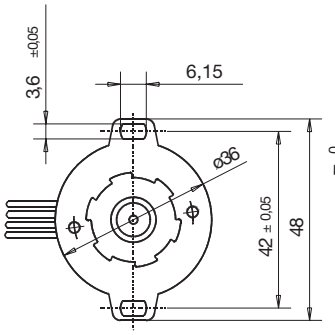
UBB

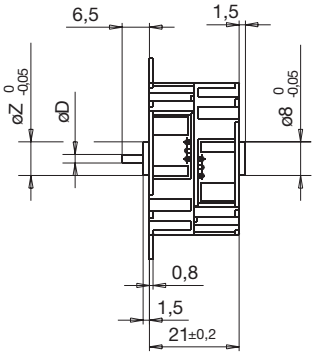
Technical Data

bipolar			UBB1	UBB5	
	Holding torque M_H	cNm	1.5	1.9	
	Detent torque M_S	cNm	0.25	0.36	
	Rotor inertia J_R	gcm²	2.8	2.9	
UBB1/5	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	18.5	100	460
	Winding code		03	05	06
unipolar			UBB2	UBB6	
	Holding torque M_H	cNm	1.0	1.4	
	Detent torque M_S	cNm	0.25	0.36	
	Rotor inertia J_R	gcm²	2.8	2.9	
UBB2/6	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	28	120	500
	Winding code		07	08	09
UBB3/7	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	18.5	100	460
	Winding code		03	05	06
UBB4/8	Rated voltage U_N	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance R_{20}	Ω	28	120	500
	Winding code		07	08	09
	Steps per revolution		24		
	Winding temperature T_{max}	°C	105		
	Direction of rotation		reversible		

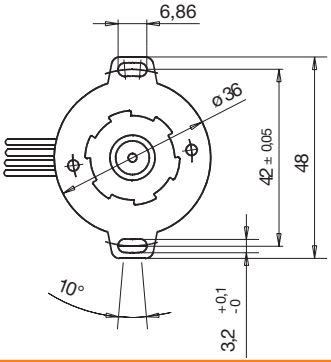
Dimensions

Mounting with screw plate





Mounting with screw plate



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

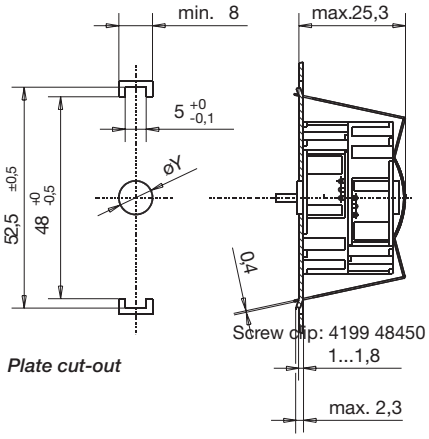
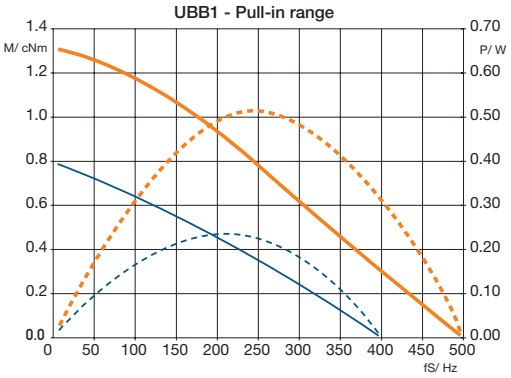
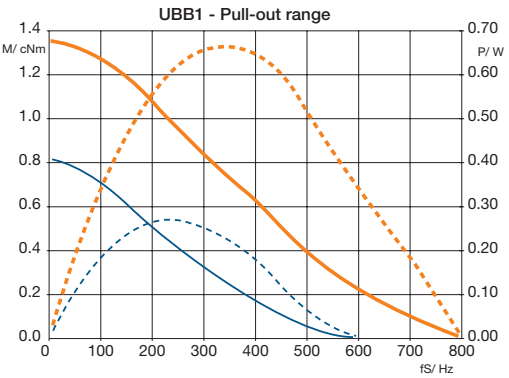


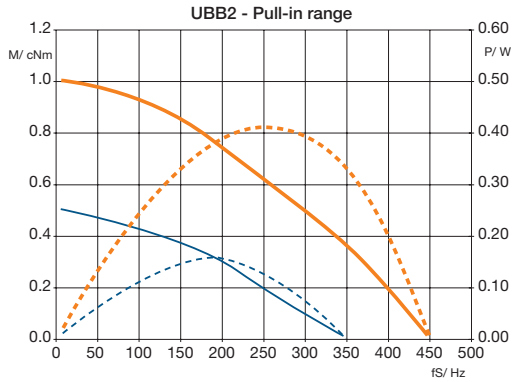
Plate cut-out

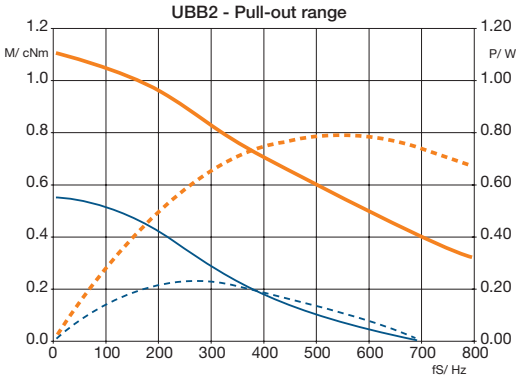
øD Rotor shaft	
ø 2 h6	
ø 1.5 js8	
øZ	**øY**
8	8F8
10	10F8

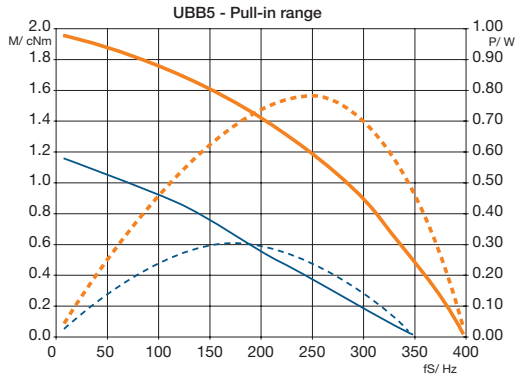
Performance Chart

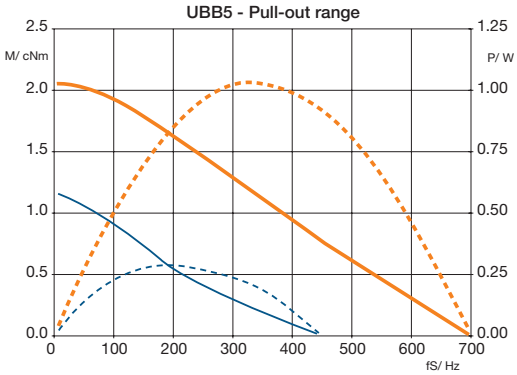


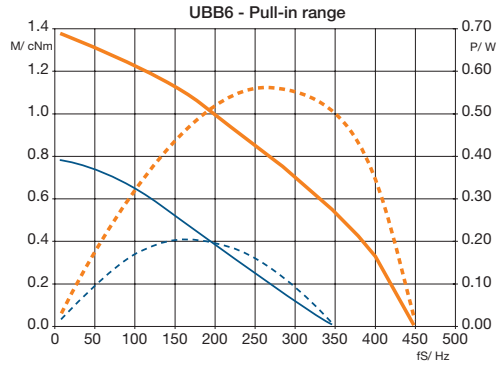


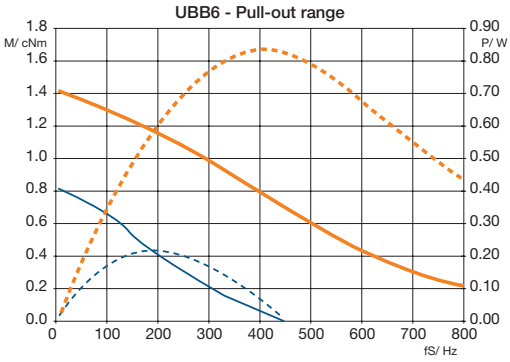












M - Duty cycle 30 %
M - Duty cycle 100%
P - Duty cycle 30 %
P - Duty cycle 100 %