

# UDB

## UDB1/2

Dimensions (mm)  $\varnothing$  48 x 24

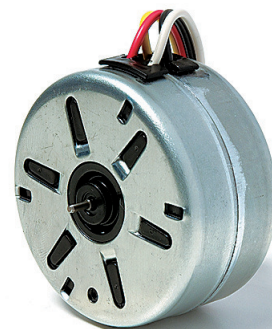
Step angle (°) 15

Holding torque  
(cNm) 2.7/2.2

Detent torque  
(cNm) 0.35

Winding bipolar/unipolar

Gear combination D, M, B, F, V, J



## 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 $R_{therm}$	18 K/W
Thermal class	105 (A) according to DIN EN 60085 : 2004
Approval	standard
Mounting	any position
Electrical connection	cable
Protection	IP40 according to DIN EN 60529 : 2000
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

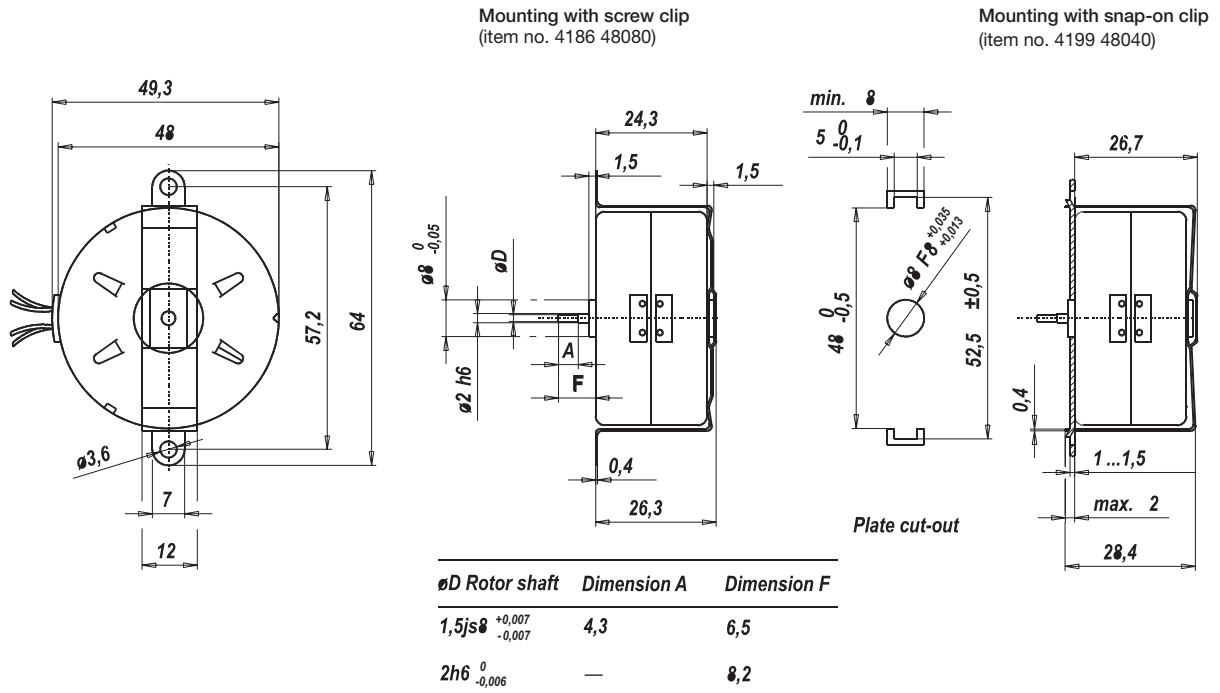
## Order Reference

Type	Stepper Motor	UDB	1	0	N	78	R	N
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)							

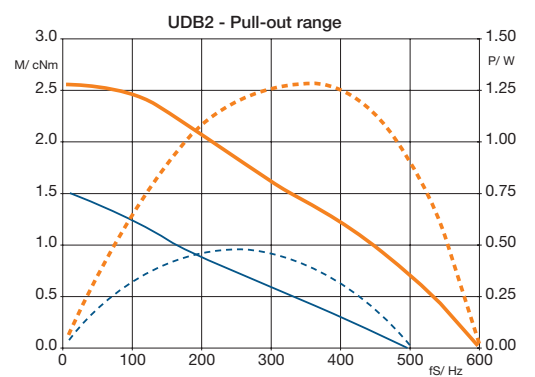
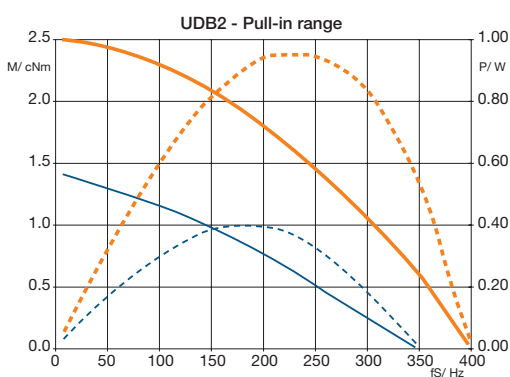
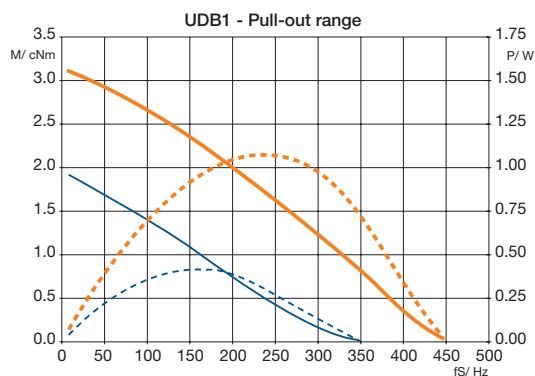
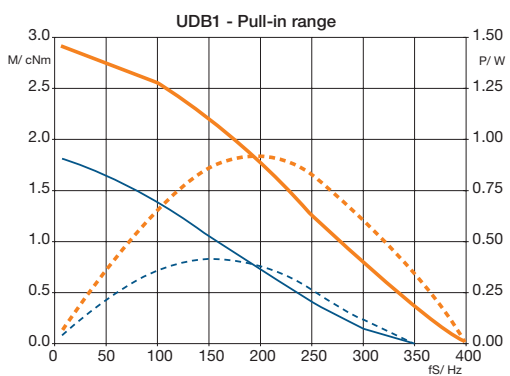
## Technical Data

bipolar (UDB1)	Holding torque $M_H$	cNm	2.7		
	Detent torque $M_S$	cNm	0.35		
	Rotor inertia $J_R$	gcm <sup>2</sup>	6.3		
	Rated voltage $U_N$	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance $R_{20}$	$\Omega$	15	78	350
	Winding code		01	02	03
unipolar (UDB2)	Holding torque $M_H$	cNm	2.2		
	Detent torque $M_S$	cNm	0.35		
	Rotor inertia $J_R$	gcm <sup>2</sup>	6.3		
	Rated voltage $U_N$	V	6	12	24
	Duty cycle	%	100	100	100
	Resistance $R_{20}$	$\Omega$	19	75	300
	Winding code		01	02	04
Steps per revolution		24			
Winding temperature $T_{max}$	$^{\circ}C$	105			
Direction of rotation		reversible			

### Dimensions



## Performance Chart



— M - Duty cycle 30 %  
— M - Duty cycle 100%

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