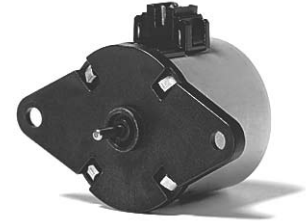


## UCB1/7; UCB2/8

Dimensions (mm)	∅ 28 x 24
Step angle (°)	15
Holding torque * (cNm)	1,3–2,3
Detent torque (cNm)	0,29
Winding	bipolar/unipolar
Gear combination	on request



\* values for lead wire version (connection N) / connector versions up to 15 % higher

### Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1
Ambient temperature operation	°C -15 ... +60
Ambient temperature storage	°C -20 ... +100
Thermal resistance at f=0 R <sub>therm</sub>	29 K/W
Thermal class	B according to DIN EN 60085
Approval	standard
Mounting	any position
Electrical connection	connector type D or N
Protection	IP 30 according to DIN EN 60529
Weight	54 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	Sintered bronze, self-lubricating

### Order Reference

Type	Stepper Motor		UCB	1	0	N	24 Ω	R	B
Configuration	1	bipolar, standard magnet	7	bipolar, stronger magnet	8	unipolar, stronger magnet			
Rotor shaft, mounting	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			
	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			
	1	centring 8 mm, shaft 1.5 mm, clip	C	centring 10 mm, shaft 1.5 mm, clip					
Approval	N	Approval Standard							
Resistance		see next pages; Resistance per winding for bipolar or unipolar							
Direction	R	reversible							
Connection	D	see next pages „Connection Types“							
	N								

## Technical Data

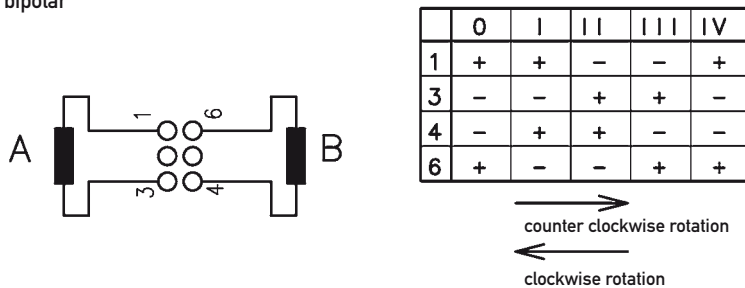
bipolar		UCB1		UCB5	
Holding torque $M_H^*$	cNm	1,7		2,3	
Detent torque $M_S$	cNm	0,29		0,46	
Rotor inertia $J_R$	gcm <sup>2</sup>	2,1		2,4	
Rated voltage $U_N$	V	6	12	24	
Resistance per winding $R_{20}$	$\Omega$	24	90	380	
Steps per revolution		24			
Duty cycle		100%			
Direction of rotation	V	reversible			

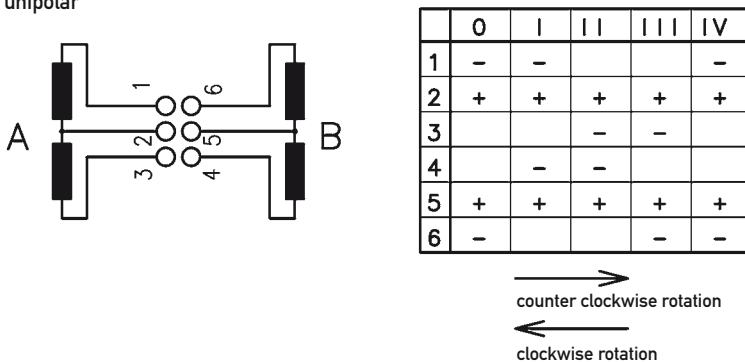
unipolar		UCB2		UCB6	
Holding torque $M_H^*$	mNm	1,3		1,8	
Detent torque $M_S$	mNm	0,29		0,46	
Rotor inertia $J_R$	gcm <sup>2</sup>	2,1		2,4	
Rated voltage $U_N$	V	6	12	24	
Resistance per winding $R_{20}$	$\Omega$	24	90	380	
Steps per revolution		24			
Duty cycle		100%			
Direction of rotation	V	reversible			

\* values for lead wire version (connection N) / connector versions up to 15 % higher

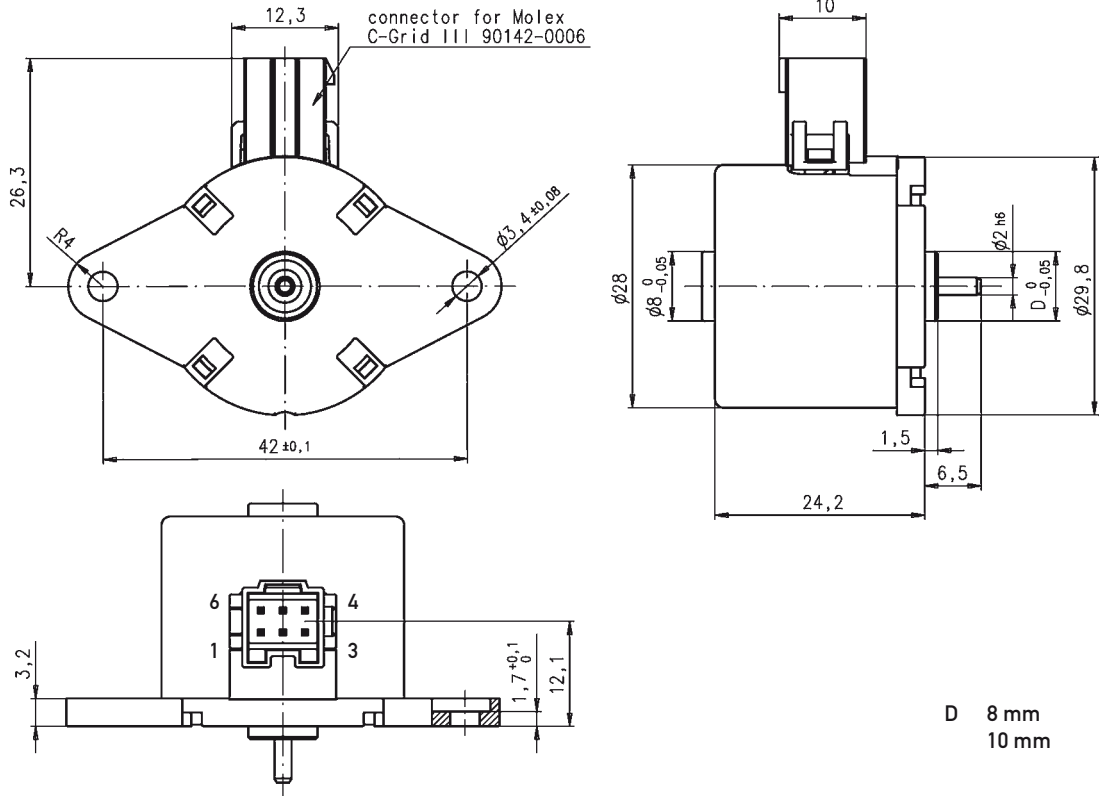
Circuit diagram bipolar



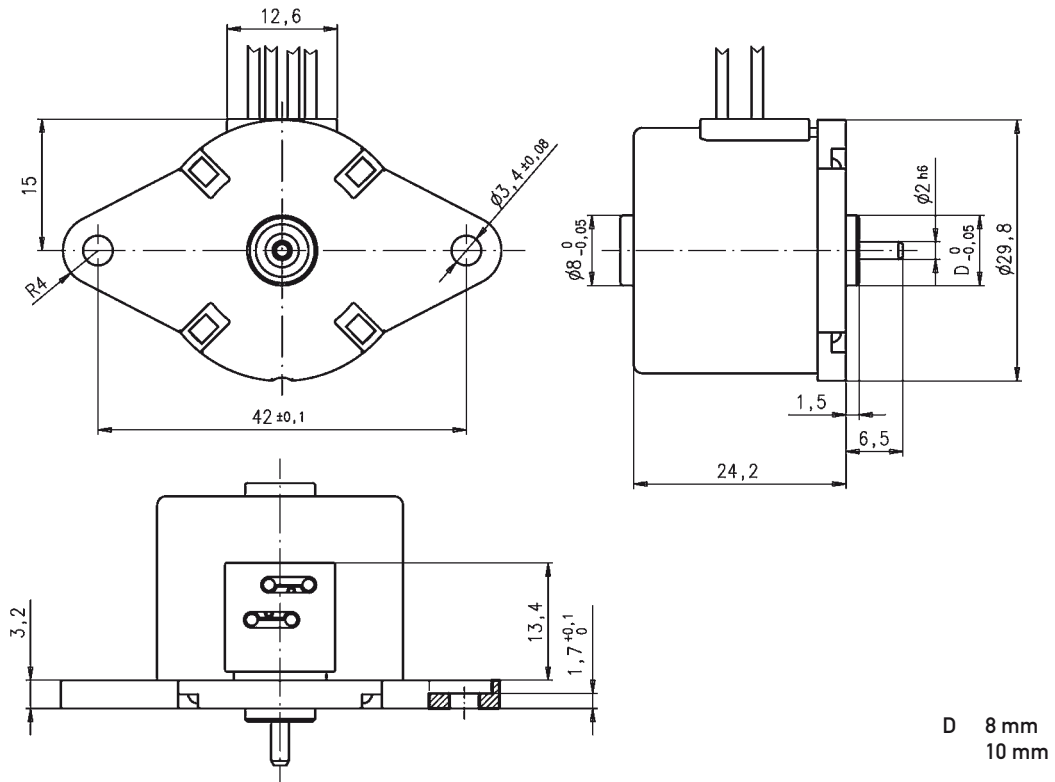
unipolar



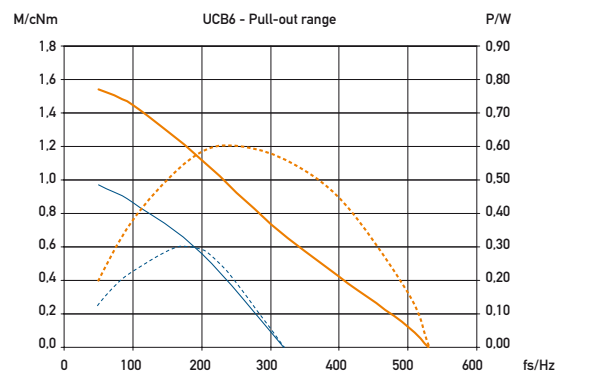
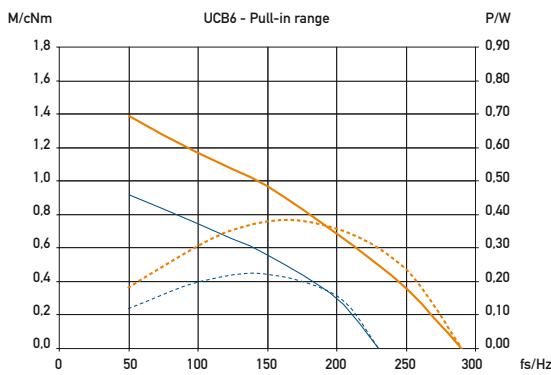
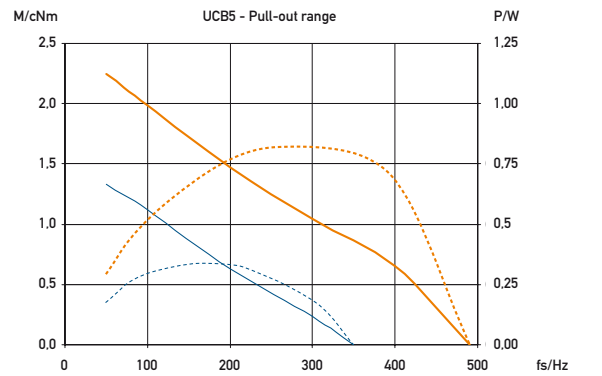
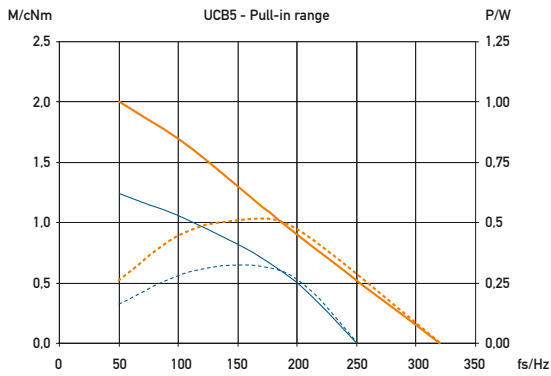
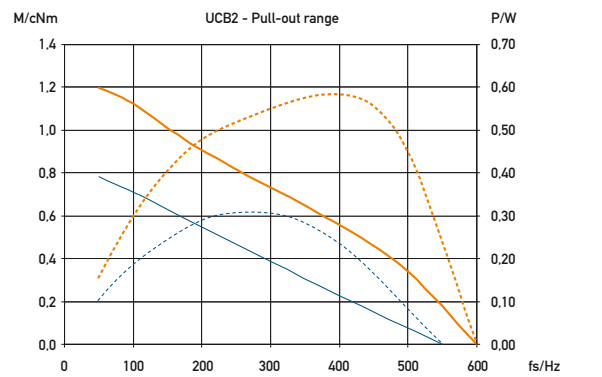
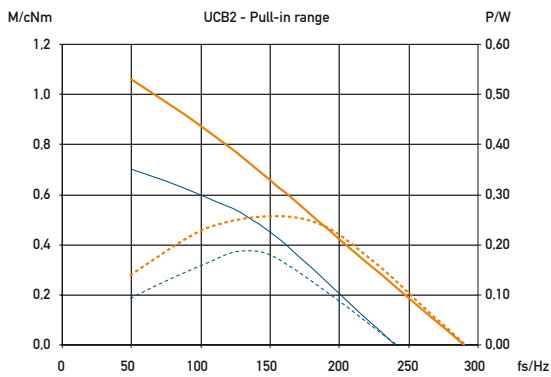
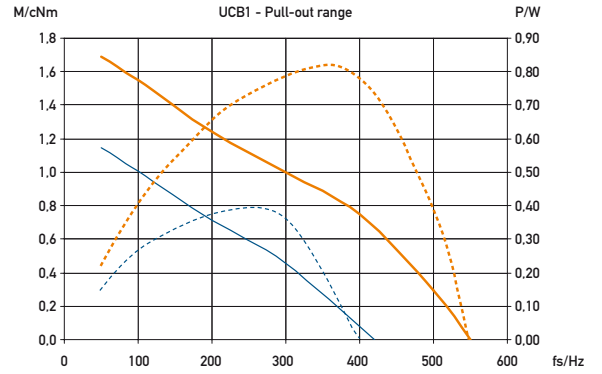
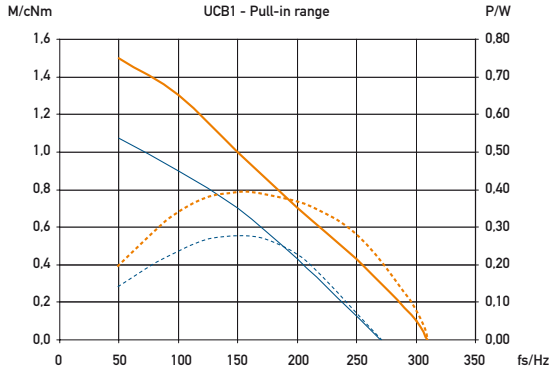
## Dimensions Version with Connector D



## Version with Connector N



## Performance Chart



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

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