

UFD1/2

Dimensions (mm)	∅ 52 x 28
Step angle (°)	7.5
Holding torque (cNm)	6,4/6,4
Detent torque (cNm)	0.45
Winding	bipolar/unipolar
Gear combination	A, D, M, B, F, V, J, O



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1
Ambient temperature operation	°C -15...+55
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R _{therm}	13 K/W
Thermal class	A according to DIN EN 60085
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	cable
Protection	IP 30 according to DIN EN 60529
Weight	180 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

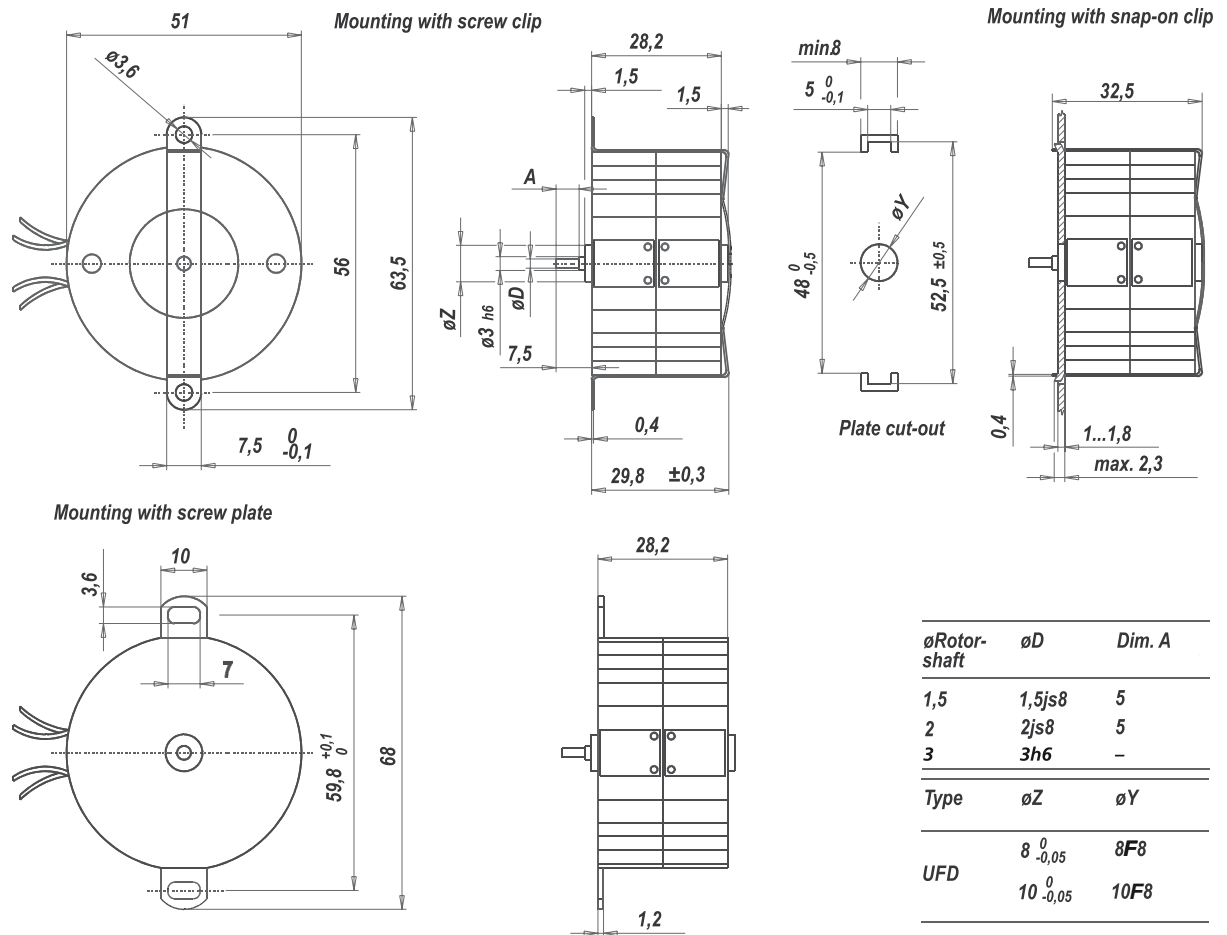
Order Reference

Type	Stepper Motor	UFD	1	0	N	52	R	N
Configuration	1 bipolar, two coils 2 unipolar, two coils							
Rotor shaft, mounting	0 centring 8 mm, shaft 3,0 mm, clip 1 centring 8 mm, shaft 2,0 mm, clip 2 centring 8 mm, shaft 1,5 mm, clip 3 centring 8 mm, shaft 3,0 mm, screw plate 4 centring 8 mm, shaft 2,0 mm, screw plate 5 centring 8 mm, shaft 1,5 mm, screw plate	E K M	centring 10 mm, shaft 3,0 mm, screw plate centring 10 mm, shaft 2,0 mm, screw plate 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)							

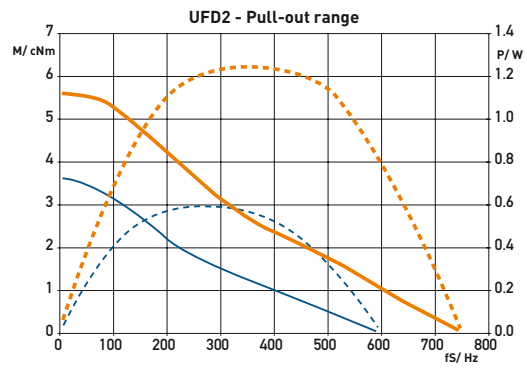
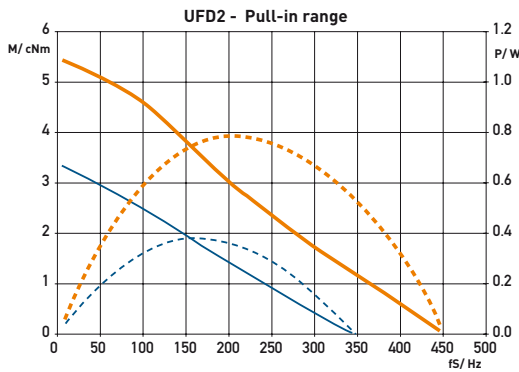
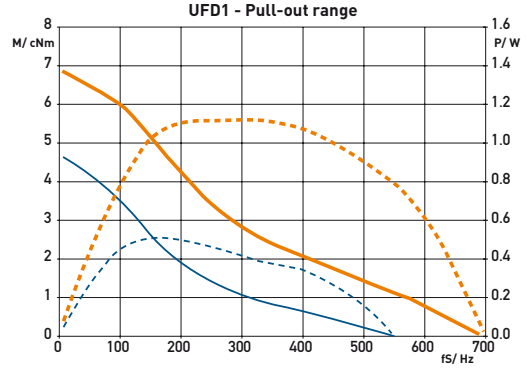
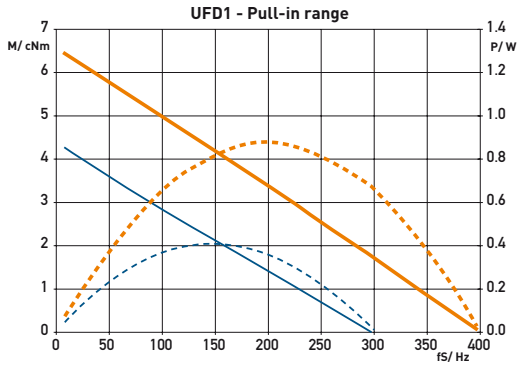
Technical Data

bipolar (UFD1)	Rated voltage U_N	V	6	12	24
	Resistance per winding R_{20}	Ω	9,5	52	250
	Holding torque M_H	cNm	6,4		
	Detent torque M_S	cNm	0,45		
	Rotor inertia J_R	gcm^2	14,4		
unipolar (UFD2)	Rated voltage U_N	V	6	12	24
	Resistance per winding R_{20}	Ω	15	61	251
	Holding torque M_H	cNm	4,6		
	Detent torque M_S	cNm	0,45		
	Rotor inertia J_R	gcm^2	14,4		
Steps per revolution			48		
Winding temperature T_{max}			105° C		
Duty cycle			100%		
Direction of rotation			reversible		
Rotor shaft			3, $\varnothing D = 3h6$, Dim. A = „-“		

Dimensions



Performance Chart



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

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