

UAG3/4

3/4

Dimensions (mm) $\varnothing 20 \times 17$

Step angle (°) 18

Holding torque (mNm) 5.6 / 4.2

Detent torque (mNm) > 0.6

bipoar/unipolar

Winding

on request

Gear combination



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 1992
Ambient temperature operation	°C -20...+60
Ambient temperature storage	°C -40...+100
Thermal resistance at f=0 R _{therm}	47 K/W
Thermal class	130 (B) according to DIN EN 60085 : 2004
Approval	standard
Mounting	any position
Electrical connection	lead wires AWG28, insulation $\varnothing 0.82$ mm
Protection	IP40 according to DIN EN 60529 : 2000
Weight	22 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	sintered bronze, self-lubricating

Order Reference

Type	Stepper Motor	UAG	3	3	N	150 (Ω)	Ω	R	E
Configuration	3 bipolar 4 unipolar								
Rotor shaft, mounting	3 centring 8 mm, mounting plate with long holes 5 centring 8 mm, mounting plate (for clipping) E centring 6 mm, mounting plate with long holes G centring 6 mm, mounting plate (for clipping)								
Approval	N Approval Standard								
Resistance	See next page Resistance per winding for bipolar or unipolar.								
Direction	reversible								
Cable	E cable 150 mm with Tyco connector CT 173977-4 1-6 (other on request)								

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Technical Data

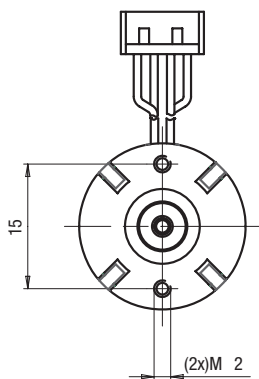
bipolar (UAG3)	Rated voltage UN	V	12	6
	Duty cycle	%	100	100
	Resistance R ₂₀	Ω	150	40
	Winding code		05	07
unipolar (UAG4)	Rated voltage UN	V	12	
	Duty cycle	%	100	
	Resistance R ₂₀	Ω	150	
	Winding code		06	
Steps per revolution			20	
Winding temperature T _{max}			130° C	
Rotor inertia J _R			0.26 gcm ²	
Holding torque M _H			0.56 cNm (UAG3) 0.42 cNm (UAG4)	
Detent torque M _H			> 0.6 mNm	
Direction of rotation			reversible	

Dimensions

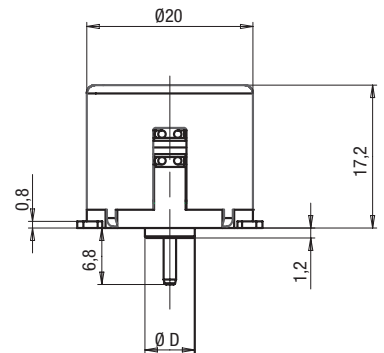
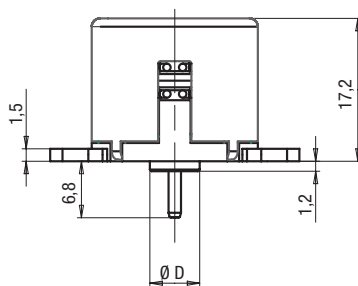
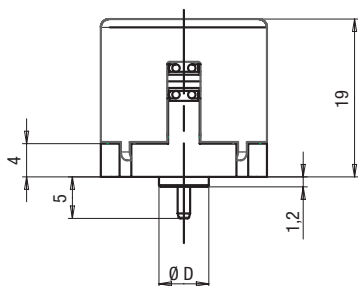
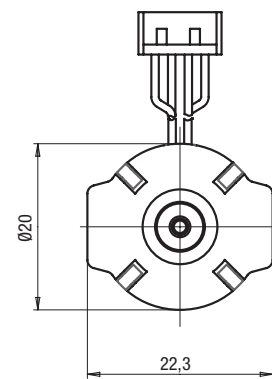
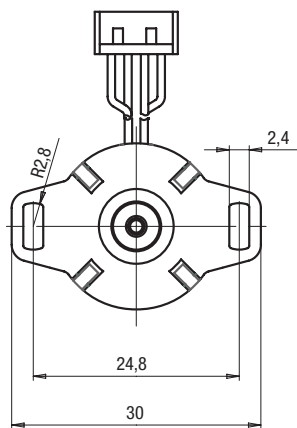
motortype	∅ D	
UAG30	∅ 8	0 -0.05
UAG3A	∅ 6	0 -0.05
UAG40	∅ 8	0 -0.05
UAG4A	∅ 6	0 -0.05

motortype	∅ D	
UAG33	∅ 8	0 -0.05
UAG3E	∅ 6	0 -0.05
UAG43	∅ 8	0 -0.05
UAG4E	∅ 6	0 -0.05

motortype	∅ D	
UAG35	∅ 8	0 -0.05
UAG3G	∅ 6	0 -0.05
UAG45	∅ 8	0 -0.05
UAG4G	∅ 6	0 -0.05

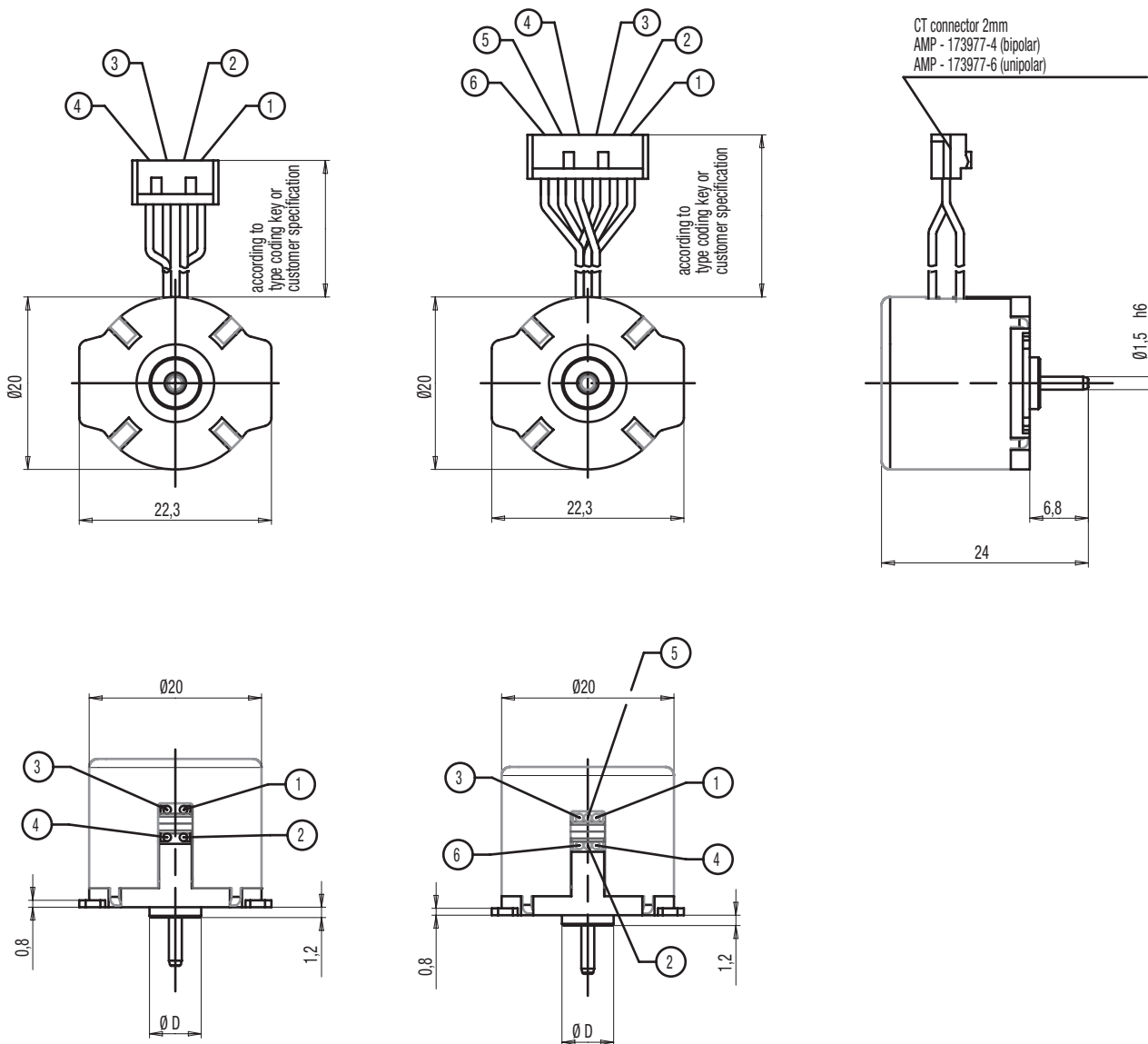


Use bolts with thread length 4mm max. Screw in torque 10cNm max.



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Dimensions



Circuit diagramm

bipolar

		step				
		0	I	II	III	IV
wire	1	+	+	-	-	+
	2	+	-	-	+	+
	3	-	-	+	+	-
	4	-	+	+	-	-

unipolar

		step				
		0	I	II	III	IV
wire	1	-	-			-
	2	-			-	-
	3	+	+	+	+	+
	4	+	+	+	+	+
	5			-	-	
	6		-	-		

clockwise rotation
 counter clockwise rotation

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Performance Chart

