

## URG

Dimensions (mm)	∅ 13 x 11
Step angle (°)	18
Holding torque* (mNm)	2.0
Detent torque (mNm)	0,3
Winding	bipolar
Gear combination	—

\* winding for duty cycle 30 %, standard magnet



## 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>	83 K/W
Thermal class	B according to DIN EN 60085
Approval	standard
Mounting	any position
Electrical connection	Pin, optional flex print
Protection	IP 40 according to DIN EN 60529
Weight	7 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	integrated high temperature plastic bearing

## Order Reference

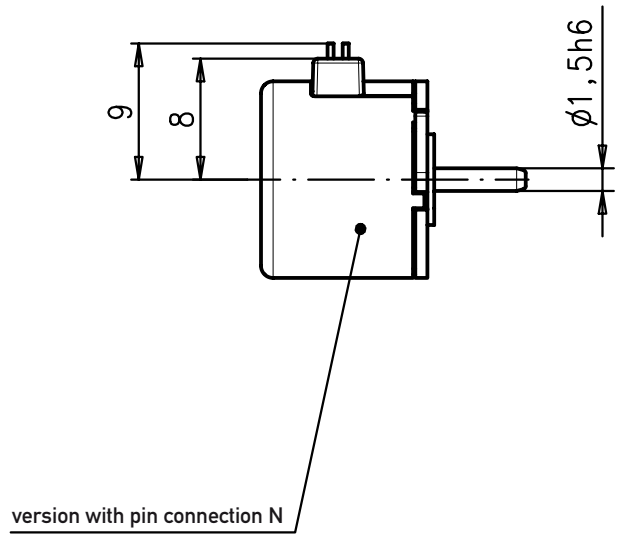
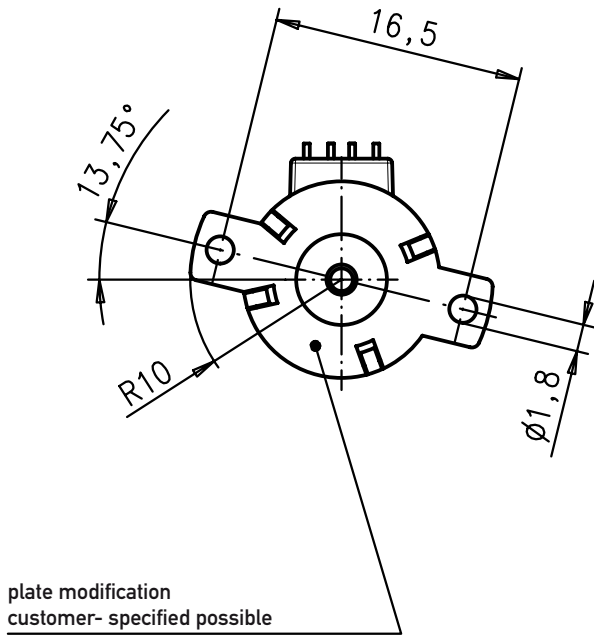
Type	Stepper Motor	URG	1E	N	6 Ω	R	C
Configuration	1E	bipolar, standard magnet					
Approval	N						
Resistance		see next page					
Direction	R	reversible					
Connector	N	Pin					
	C	flex print					

This motor type doesn't fulfil basis insulation requirements of EN 60535-1: 2004  
Customer application must realize a suitable protection class.

## Technical Data

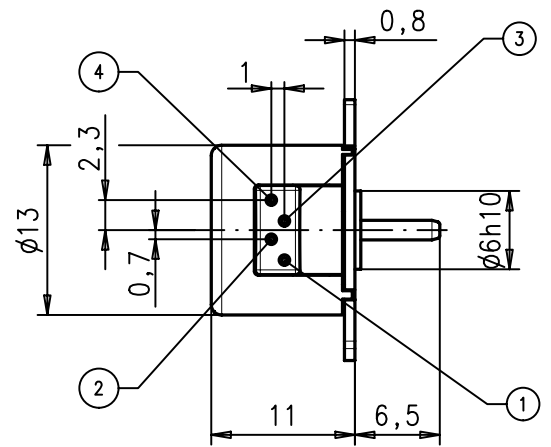
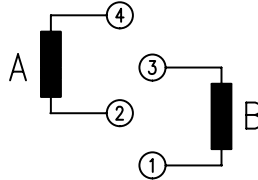
bipolar	Rated voltage $U_N$	V	3	6	12
	Resistance per winding $R_{20}$	$\Omega$	6	26	102
	Holding torque $M_H$	mNm	2.5		
	Detent torque $M_S$	mNm	0.3		
	Rotor inertia $J_R$	$gcm^2$	0.033		
	Steps per revolution		20		
	Duty cycle		30 %		
	Direction of rotation		reversible		

### Dimensions



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

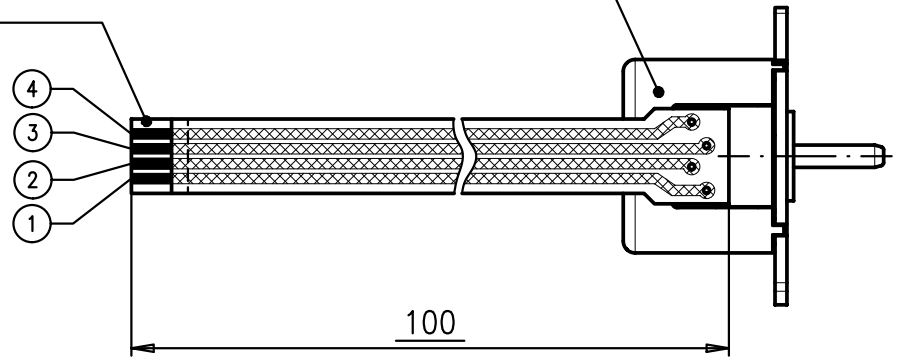
clockwise rotation  
 counter clockwise rotation



## Dimensions

recommended FPC layout for flex print connector 1 mm

version with flex print circuit C



## Performance Chart

