

UCE1/7; UCE2/8

Dimensions (mm)	∅ 28 x 31
Travel (mm)	10/13
Travel per step (mm)	0,021
Thread pitch (mm)	1,0
Speed (mm/s) at 200 Hz	4,16
Step angle (°)	7,5
Max. Force (N)*	35



*Depends on winding, frequency and lifetime required.
Drive against end stops only permissible after clarification of operating conditions and approval by Saia-Burgess.

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 _{therm}	29 K/W
Thermal class	B according to DIN EN 60085
Approval	standard
Mounting	any position
Electrical connection	connector type C, D
Protection	IP 40 according to DIN EN 60529
Weight	67 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	ball bearing

Order Reference

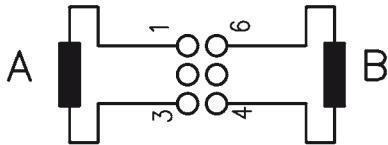
Type	Stepper Motor	UCE	13	N	24 Ω	B	1A
Configuration	13	bipolar, standard magnet	73	bipolar, stronger magnet			
	23	unipolar, standard magnet	83	unipolar, stronger magnet			
Approval	N						
Resistance	see next page, Resistance per winding for bipolar or unipolar						
Connection	C D see next pages „Connection Types“						
Shaft	1A	Travel 10 mm ± 0,7 mm					
	1B	Travel 13 mm ± 0,7 mm					

Technical Data

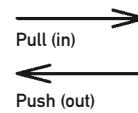
bipolar	type			UCE1	UCE1	UCE5	UCE5
	Operating frequency		Hz	100	200	100	200
	max. Push/Pull force *	30% duty cycle	N	49	42	50	50
		100% duty cycle	N	42	28	49	39
unipolar	type			UCE2	UCE2	UCE6	UCE6
	Operating frequency		Hz	100	200	100	200
	max. Push/Pull force *	30% duty cycle	N	35	28	49	39
		100% duty cycle	N	21	17	29	23
	Rated voltage U_N :		V	6	12	24	
	Resistance per winding R_{20}		Ω	24	90	380	
	Steps per mm			48			
	Duty cycle			100 %			
	Winding temperature T_{max}		$^{\circ}C$	130			
	Linear travel max.		mm	10/13			
	Axial play at ± 20 N force		mm	< 0.25			

* measured at 23 °C, lifetime depends on load characteristics and ambient conditions

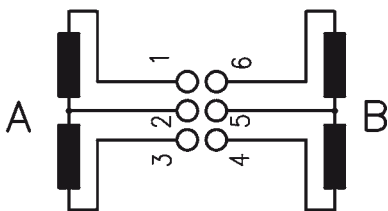
Circuit diagram bipolar



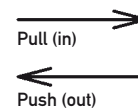
	0	I	II	III	IV
1	+	+	-	-	+
3	-	-	+	+	-
4	-	+	+	-	-
6	+	-	-	+	+



unipolar



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



Dimensions Version with connector D, 10 mm travel

