

UCC1/7

Dimensions (mm)	∅ 28 x 31
Travel (mm)	10/13
Voltage (V) **	12–230
Thread pitch (mm)	1,0
Speed (mm/s)	
50 Hz	4,16
60 Hz	5
Pole number	24
Max. Force (N)*	35



* Depends on winding, frequency and lifetime required. Values for connector versions (C, D) / lead wire versions (N) up to 20 % lower.
Drive against end stops only permissible after clarification of operating conditions and approval by Saia motors.

** regard circuit diagram and connector type

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
Winding coil temperature increase	K 60
Approval	standard
Mounting	any position
Electrical connection	connector type C, D, N
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

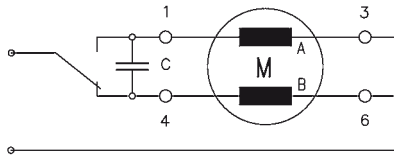
Order Reference

Type	Synchronous Motor		UCC	13	N	24 V / 50 Hz	B	1A
Configuration	13	standard magnet	73	stronger magnet				
Approval	N							
Voltage/frequency	see next pages							
Connection	C see next pages „Connection Types“ D							
Shaft	1A	Travel 10 mm ± 0,7 mm						
	1B	Travel 13 mm ± 0,7 mm						

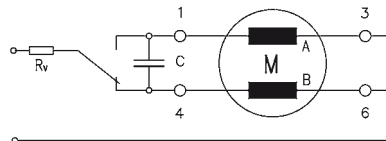
Technical Data

bipolar	Rated frequency	Hz	50		
	Axial speed	mm/s	4,16		
	Tolerance of voltage		standard power supply system +10% / -10%		
	Linear travel max.	mm	10/13		
	Axial play at ± 20 N force	mm	< 0,25		
	Duty cycle		100 %		
	Winding temperature T_{max}		130		
Capacitors	Rated voltage U_N	V	12	24	110
	Operating capacitor C_{50}	$\mu F/V\sim$	18/20	4,7/40	0,33/200

Circuit diagram Parallel circuit 12 V, 24 V, 48 V

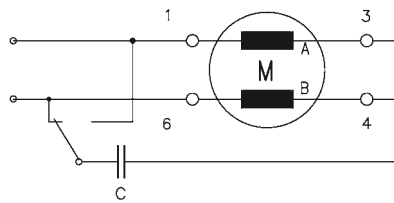


Parallel circuit 230 V (only for connector N) with 110 V motor and resistor R_V

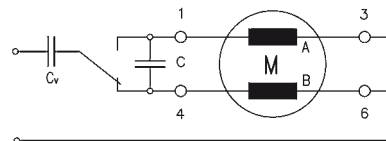


$R_V = 5,6 \text{ k}\Omega, 3 \text{ W}$

Series circuit 110 V (only for connector N)



Parallel circuit 230 V (only for connector N) with 110 V motor and capacitor C_V



$C_V = 0,33 \text{ }\mu\text{F}, 250 \text{ VAC}$

switch to

- 1 Pull (in)
- 4 Push (out)
- 6 Push (out)
(for series circuit)

Dimensions Version with Connector D. with 10 mm travel

