

## UCK 1/7

Dimensions (mm)	∅ 28 x 31
Travel (mm)	10/13
Voltage (V) **	12–230
Thread pitch (mm)	1,0
Speed (mm/s)	
50 Hz	8,33
60 Hz	10
Pole number	12
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 <sub>therm</sub>	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

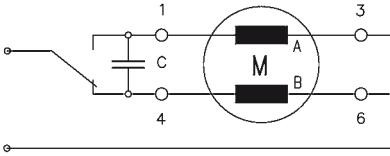
Type	Synchronous Motor	UCK	13	N	24 V / 50 Hz	D	1A
Configuration	13 standard magnet	73 stronger magnet					
Approval	N						
Voltage/frequency	see next page						
Connection	C see next pages „Connection Types“ D N						
Shaft	1A Travel 10 mm ± 0,7 mm	1B Travel 13 mm ± 0,7 mm					

## Technical Data

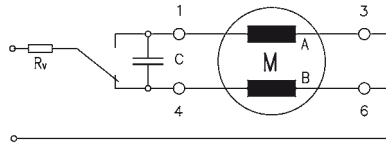
Rated frequency	Hz	50
Speed	mm/s	8.33
Tolerance of voltage		standard power supply system +10% / -10%
Linear travel max.	mm	10/13
Axial play at 20 N force	mm	< 0.25
Duty cycle		100 %
Winding temperature $T_{max}$		130

Capacitors	Rated voltage $U_N$	V	12	24	110
	Operating capacitor $C_{50}$	$\mu F/V\sim$	22/20	5,6/40	0.27/200

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

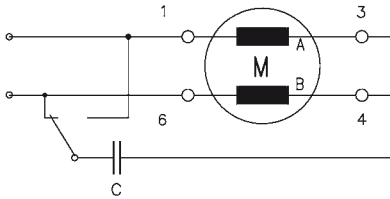


Parallel circuit 230 V (only for connector N) with 110 V motor and resistor  $R_V$

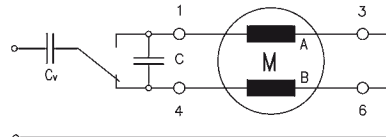


$R_V = 5,6 \text{ k}\Omega, 3 \text{ W}$

Series circuit 110 V (only for connector N)



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



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

switch to

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

Dimensions Version with Connector D. with 10 mm travel

