

UCR1/7

Dimensions (mm)	∅ 28 x 24
Voltage (V) *	12–230
Speed (rpm) 50 Hz	500
Pole number	12
Running torque ** (cNm) 50 Hz	0,8–1,1
60 Hz	0,8–1,1
Power output (W) ** 50 Hz	0,42–0,58
60 Hz	0,50–0,69
Gear combination	on request



* regard circuit diagram and connector type
 ** values for lead wire version (connection N) / connector versions up to 15 % higher

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 D or N
Protection	IP 30 according to DIN EN 60529
Weight	54 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	Sintered bronze, self- lubricating

Order Reference

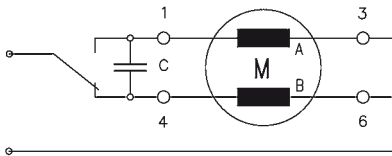
Type	Synchronous Motor	UCR	1	0	N	24 V / 50 Hz	R	D
Configuration	1 standard magnet 7 stronger magnet							
Rotor shaft, mounting	3 centring 8 mm, shaft 2,0 mm, screw plate 4 centring 8 mm, shaft 1,5 mm, screw plate 0 centring 8 mm, shaft 2,0 mm, clip 1 centring 8 mm, shaft 1,5 mm, clip	E K A C						
Approval	N Approval Standard							
Voltage/Frequency	see next pages							
Direction	R reversible							
Connection	D see next pages „Connection Types“ N Cable							

Technical Data

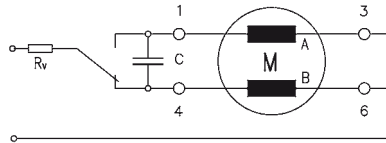
			UCR 1	UCR 1	UCR 5	UCR 5
bipolar	Rated frequency	Hz	50	60	50	60
	Speed n	rpm	500	600	500	600
	Running torque *	cNm	0,8	0,8	1,1	1,1
	Detent torque M_S	cNm	0,18	0,18	0,4	0,4
	Power output *	W	0,42	0,50	0,58	0,69
	Power consumption	VA	2,2	2,2	2,2	2,2
	Rotor inertia J_R	gcm ²	2,1	2,1	2,4	2,4
	Tolerance of voltage		standard power supply system +10%/-10%			
	Duty cycle		100%			
	Winding temperature T_{max}	°C	130			
Direction of rotation			reversible			
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	

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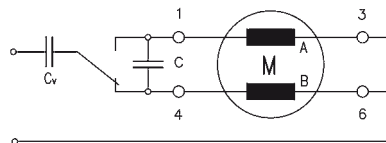
Circuit diagram Parallel circuit 12 V, 24 V, 48 V, 110 V



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



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



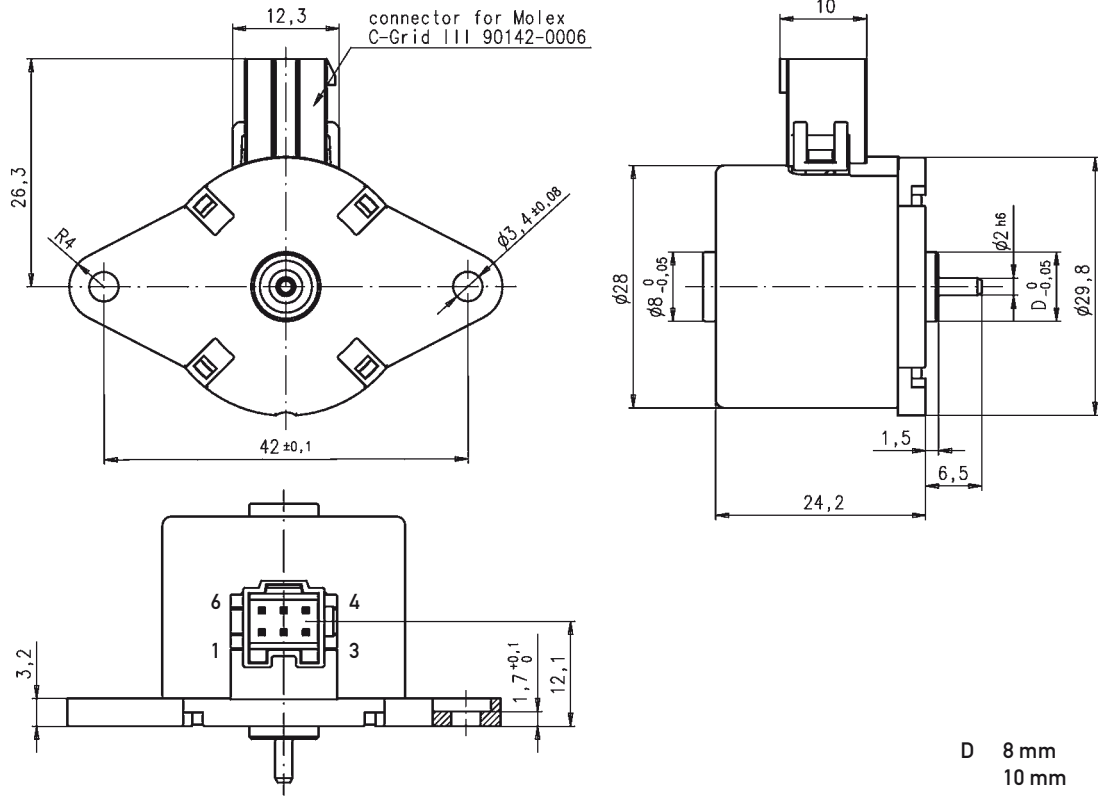
switch to

- 1 clockwise rotation
- 4 counter clockwise rotation
- 6 counter clockwise rotation (for series circuit)

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

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

Dimensions Version with Connector D



Version with Connector N

