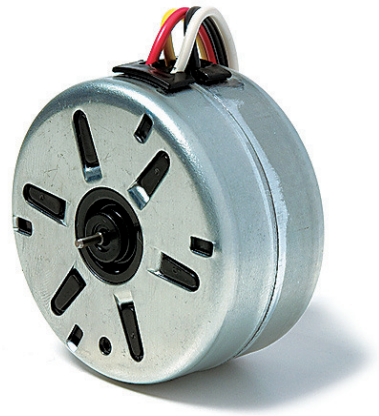
UDR

UDR1

Dimensions (mm)	∅ 48 x 24
Voltage (V)	12–230
Speed (rpm) 50 Hz	500
60 Hz	600
Pole number	12
Running torque (cNm) 50 Hz	1.5
60 Hz	1.4
Power output (W) 50 Hz	0.77
60 Hz	0.87
Gear combination	D, M, B, F, V, J



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 1992
Ambient temperature operation	°C -15...+60
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R_{therm}	18 K/W
Thermal class	105 (A) according to DIN EN 60085 : 2004
Approval	standard/UL/CSA
Mounting	any position
Electrical connection	cable
Protection	IP40 according to DIN EN 60529 : 2000
Weight	132 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	sintered bronze, self-lubricating
Electric strength	according to DIN EN 60034-1/DIN EN 60335-1

Order Reference

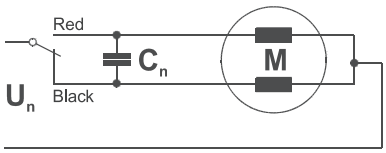
		UDR1	00	N	B4	R	N
Type	Synchronous Motor						
Rotor shaft, mounting	0 centring 8 mm, shaft 1.5 mm, clip 1 centring 8 mm, shaft 2.0 mm, clip						
Approval	N Approval Standard U Approval UL/CSA						
Voltage/Frequency	See next page						
Direction	reversible						
Cable	N cable 150 mm (other on request)						

Technical Data

Rated frequency	Hz	50	60			
Speed n	rpm	500	600			
Power consumption	W	2.1	2.2			
Power output	W	0.77	0.87			
Running torque	cNm	1.5	1.4			
Rotor inertia J_R	gcm2	6.3				
Detent torque M_S	cNm	0.35				
Tolerance of voltage		standard power supply system + 10% / - 10%				
Winding temperature T_{max}	°C	105				
Direction of rotation		reversible				
Rated voltage U_N	V	12	24	48	110-120	230
Duty cycle	%	100	100	100	100	100
Resistance R_{20}	Ω	50	200	800	5000	190000
Capacitor C_{50}	µF/V ±10%	27;22/20	6.8;4.7/34	1.5/70	0.27/170	0.068/340
Winding code		B1/G1	B4/G4	C1/H1	D1/J1	D5/J5

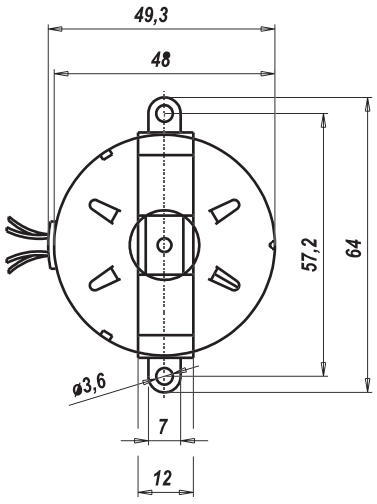
Circuit diagram

Parallel circuit

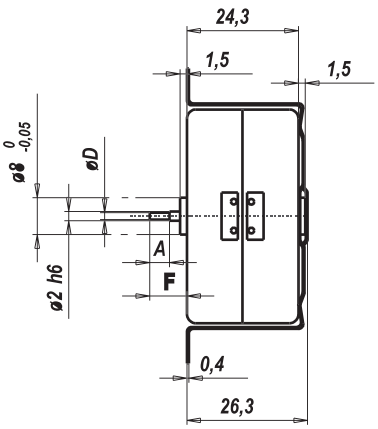


Red = clockwise rotation
Black = counter clockwise rotation

Dimensions



Mounting with screw clip
(item no. 4186 48080)



Mounting with snap-on clip
(item no. 4199 48040)

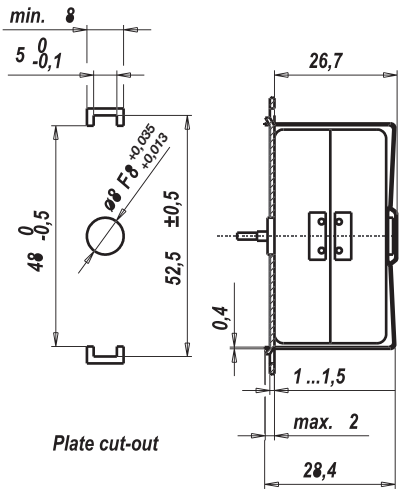


Plate cut-out

øD Rotor shaft	
ø 1.5 js8 +0,007 -0,007	
ø 2 h6 0 -0,006	
Dimension A	**Dimension F**
4,3	6,5
—	8,2