

UDR

Synchronous Motors

Rotational

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	A. D. M. B. F. V. J



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}	18 K/W
Thermal class	A according to DIN EN 60085
Approval	standard/UL/CSA
Mounting	any position
Electrical connection	cable
Protection	IP 40 according to DIN EN 60529
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

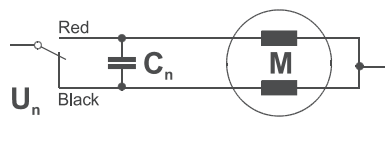
Order Reference

Type	Synchronous Motor	UDR1	0	N	24 V/50 Hz	R	N
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	gcm ²	6.3				
Detent torque M_s	cNm	0.35				
Tolerance of voltage		standard power supply system + 10% / - 10%				
Duty cycle		100 %				
Winding temperature T_{max}	°C	105				
Direction of rotation		reversible				
Capacitors						
Rated voltage U_N	V	12	24	48	110	230
Operation capacitor C_{50}	µF/VAC	27/20	6.8/40	1.5/100	0.27/200	0.068/350
Operation capacitor C_{60}	µF/VAC	22/20	4.7/40	1.5/100	0.27/200	0.068/350

Circuit diagram Parallel circuit

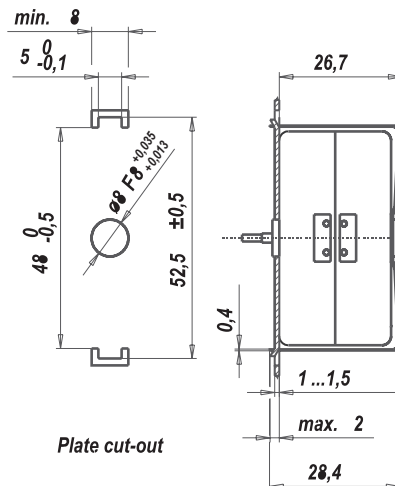
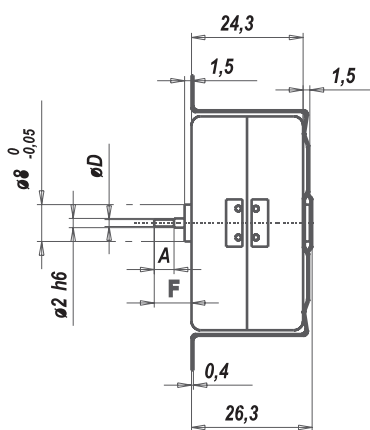
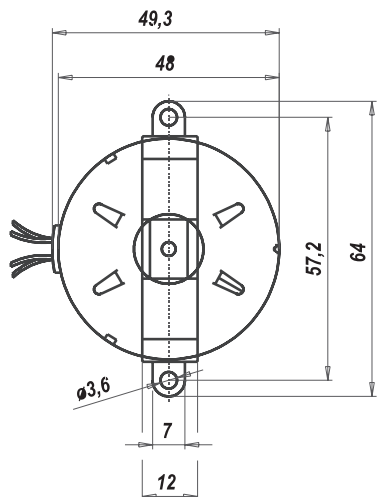


Red = clockwise rotation
Black = counter clockwise rotation

Dimensions

Mounting with screw clip

Mounting with snap-on clip



$\varnothing D$ Rotor shaft

$\varnothing 1.5 js8$ ^{+0.007} / _{-0.007}

$\varnothing 2 h6$ ⁰ / _{-0.006}

Dimension A Dimension F

4,3 6,5

— 8,2