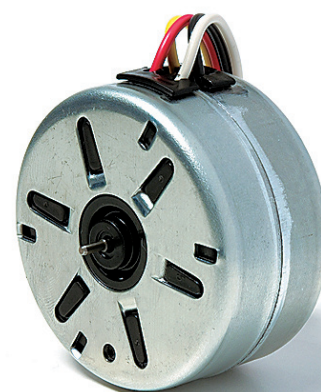


UDR1

Dimensions (mm)	Ø 48 x 24
Voltage (V)	12–230
Speed (rpm) 50 Hz	500
60 Hz	600
Pole number	12
Running torque (cNm) 50 Hz	1.3
60 Hz	1.2
Power output (W) 50 Hz	0.68
60 Hz	0.75
Gear combination	D, M, B, F, V, J



Note: Running torque = Pull-out torque (starting motor at no load, then torque increase)
Running torque and Power output are minimum values, at rated voltage and motor temperature 23°C

Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 2015
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 : 2008
Approval	standard/UL/CSA
Mounting	any position
Electrical connection	cabl
Protection	IP30 according to DIN EN 60529 : 2014
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	00	N	B4	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)						

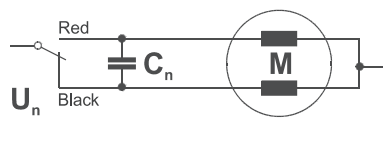
All specifications are representative only and maybe subject to variation. For confirmation of values, please contact Johnson Electric.
Please also read "Saia Motors Important Notes" on catalog or at www.johnsonelectric.com/SaiaMotorsNotes



Technical Data

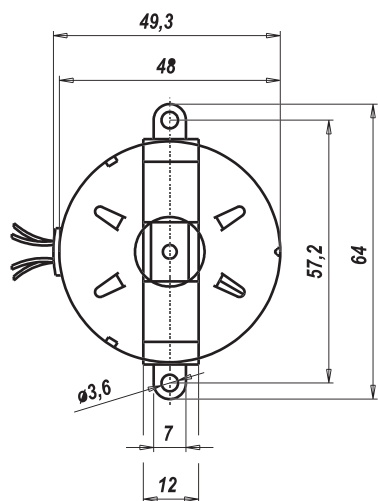
Rated frequency	Hz	50	60			
Speed n	rpm	500	600			
Power consumption	W	2.1	2.2			
Power output	W	0.68	0.75			
Running torque	cNm	1.3	1.2			
Rotor inertia J _R	gcm ²	6.3				
Detent torque M _s	cNm	0.30				
Tolerance of voltage		standard power supply system + 10% / - 10%				
Winding temperature T _{max}	°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	19000
Capacitor C _n (50Hz, 60Hz)	μF/V ±10%	27;22/20	6.8;4.7/34	1.5/70	0.27/170	0.068/340
Winding code	50Hz/60Hz	B1/G1	B4/G4	C1/H1	D1/J1	D5/J5

Circuit diagram Parallel circuit

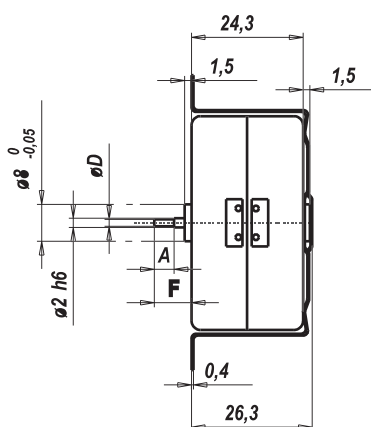


Red = clockwise rotation
Black = counter clockwise rotation

Dimensions



Mounting with screw clip
(item no. 4186 48080)



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

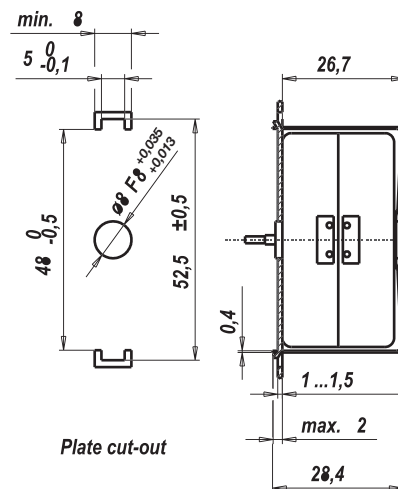


Plate cut-out

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