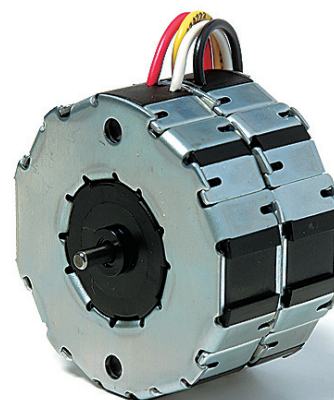


UFM1

Dimensions (mm)	Ø 52 x 28
Voltage (V)	12–230
Speed (rpm) 50 Hz	250
60 Hz	300
Pole number	24
Running torque (cNm)	
50 Hz	3.2
60 Hz	3.0
Power output (W)	
50 Hz	0.8
60 Hz	0.9
Gear combination	D, M, B, F, V, J ($i \leq 2k$), O, P



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...+55
Ambient temperature storage	°C -20...+100
Thermal resistance at $f=0$ R_{therm}	13 K/W
Thermal class	105 (A) according to DIN EN 60085 : 2008 (130 / B on request)
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	lead wires AWG22, insulation Ø 1.72 ± 0.08 mm
Protection	IP40 according to DIN EN 60529 : 2014
Weight	180 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

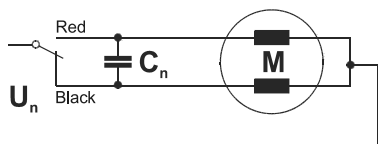
Type	Synchronous Motor	UFM1	0	N	B4	R	N
Rotor shaft, mounting	0 centring 8 mm, shaft 3.0 mm, clip	E centring 10 mm, shaft 3.0 mm, screw plate					
	1 centring 8 mm, shaft 2.0 mm, clip	K centring 10 mm, shaft 2.0 mm, screw plate					
	2 centring 8 mm, shaft 1.5 mm, clip	M centring 10 mm, shaft 1.5 mm, screw plate					
	3 centring 8 mm, shaft 3.0 mm, screw plate	B centring 10 mm, shaft 3.0 mm, clip					
	4 centring 8 mm, shaft 2.0 mm, screw plate	A centring 10 mm, shaft 2.0 mm, clip					
	5 centring 8 mm, shaft 1.5 mm, screw plate	C centring 10 mm, shaft 1.5 mm, clip					
Approval	N Approval Standard						
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	250	300			
Power consumption	W	4	3.1			
Power output	W	0.8	0.9			
Running torque	cNm	3.2	3.0			
Rotor inertia J _R	gcm ²	14.4				
Detent torque M _s	cNm	0.38				
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	15	59	240	1390	5690
Capacitor C _n (50Hz, 60Hz)	μF/V ±10%	39;33/20	10;8.2/45	2.2;1.8/70	0.39;0.33/230	0.1;0.082/440
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

