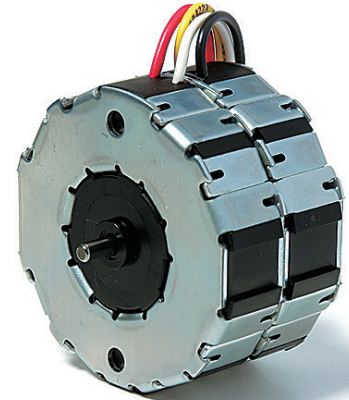


UFM

UFM1



Dimensions (mm)	∅ 52 x 28
Voltage (V)	12-230
Speed (rpm) 50 Hz	250
60 Hz	300
Pole number	24
Running torque (cNm)	
50 Hz	3.8
60 Hz	3.5
Power output (W)	
50 Hz	1
60 Hz	1.1
Gear combination	D, M, B, F, V, J (i ≤ 2k), O, P

Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1 : 1992
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 : 2004 (130 / B on request)
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	lead wires AWG22, insulation ∅ 1.72 ± 0.08 mm
Protection	IP40 according to DIN EN 60529 : 2000
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

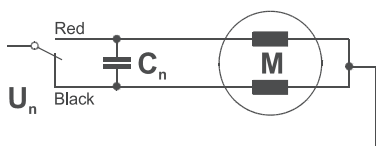
Order Reference

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)						

Technical Data

Rated frequency	Hz	50	60			
Speed n	rpm	250	300			
Power consumption	W	4	3.1			
Power output	W	1	1.1			
Running torque	cNm	3.8	3.5			
Rotor inertia J _R	gcm ²	14.4				
Detent torque M _s	cNm	0.45				
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 ₅₀	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		B1/G1	B4/G4	C1/H1	D1/J1	D5/J5

Circuit diagram Parallel circuit



Red = clockwise rotation
Black = counter clockwise rotation

Dimensions

