

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	A, D, M, B, F, V, J, O



Standard Data

Climatic class	wide-spread according to DIN IEC 60721-2-1
Ambient temperature operation	°C -15...+55
Ambient temperature storage	°C -20...+100
Thermal resistance at f=0 R _{therm}	13 K/W
Thermal class	A according to DIN EN 60085 (B on request)
Approval	standard (UL/CSA on request)
Mounting	any position
Electrical connection	cable
Protection	IP 30 according to DIN EN 60529
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

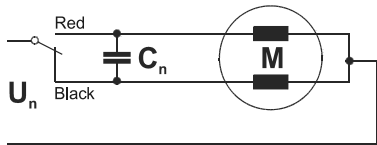
Order Reference

Type	Synchronous Motor		UFM1	0	N	24 V/50 Hz	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						
	4	centring 8 mm, shaft 2,0 mm, screw plate						
	5	centring 8 mm, shaft 1,5 mm, screw plate						
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%					
	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	39/24	10/45	2,2/90	0,39/240	0,1/440
	Operation capacitor C_{60}	µF/VAC	33/24	8,2/45	1,8/90	0,33/240	0,082/440

Circuit diagram Parallel circuit



Red = clockwise rotation
Black = counter clockwise rotation

Dimensions

