UAT3

UAT3

Dimensions (mm)	∅ 20 × 17.2
Voltage (V)	12-60
Speed (rpm) 50 Hz	600
60 Hz	720
Pole number	10
Running torque (cNm) 50 Hz	0.32 (standard magnet, stronger magnet on request)
60 Hz	0.3
Power output (W) 50 Hz	0.20 (standard magnet, stronger magnet on request)
60 Hz	0.23
Gear combination	on request

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 -20 ... +60
Ambient temperature storage	°C -40 ... +100
Thermal resistance at f=0 R_{therm}	47 K/W
Thermal class	130 (B) according to DIN EN 60085 : 2008
Approval	standard
Mounting	any position
Electrical connection	lead wires AWG28, insulation Ø 0.82 mm
Protection	IP40 according to DIN EN 60529 : 2014
Weight	22 g
Rotor stalling	motor can be stopped when voltage is applied, without being overheated
Bearings	sintered bronze, self-lubricating

Order Reference

			UAT3	3	N	B4	R	E
Type	Synchronous Motor							
Rotor shaft, mounting	0	centring 8 mm, mounting plate with screw M2						
	3	centring 8 mm, mounting plate with long holes						
	5	centring 8 mm, mounting plate (for clipping)						
	A	centring 6 mm, mounting plate with screw M2						
	E	centring 6 mm, mounting plate with long holes						
	G	centring 6 mm, mounting plate (for clipping)						
Approval	N	Approval Standard						
Voltage/Frequency		See next page						
Direction		reversible						
Cable	E	cable 150 mm with Tyco connector CT 173977-4 (other on request)						

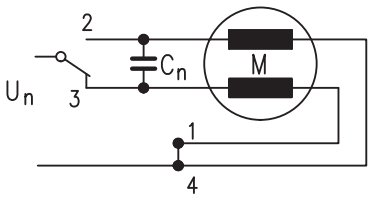
All specifications are representative only and maybe subject to variation. For confirmation of values, please contact Johnson Electric.
Please also read “Saia Motors Important Notes” on catalog or at www.johnsonelectric.com/SaiaMotorsNotes

Technical Data

Rated frequency	Hz	50	60
Speed n	rpm	600	720
Power consumption	W	1.4	1.4
Power output	W	0.20	0.23
Running torque	cNm	0.32	0.30 (standard magnet, stronger magnet on request)
Rotor inertia J_R	gcm2	0.26	
Detent torque M_S	mNm	> 0.6	
Tolerance of voltage		standard power supply system + 10% / - 10%	
Duty cycle		100%	
Winding temperature T_{max}	°C	130	
Direction of rotation		reversible	
Rated voltage U_N	V	24	24
Duty cycle	%	100	100
Resistance R_{20}	Ω	430	430
Capacitor C_n(50Hz)	µF	3.3	2.7
Winding code	50Hz/60Hz	B4	G4

Circuit diagram

Parallel circuit



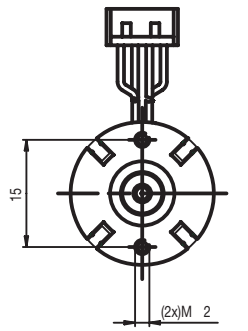
switch to
2 = clockwise rotation
3 = counter clockwise rotation

Dimensions

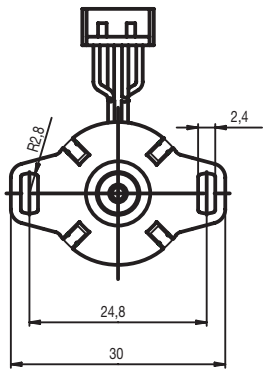
motor type	∅D	
UAT30	∅8	0 -0.05
UAT3A	∅6	0 -0.05

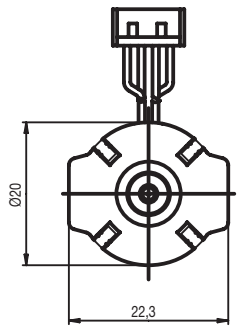
motor type	∅D	
UAT33	∅8	0 -0.05
UAT3E	∅6	0 -0.05

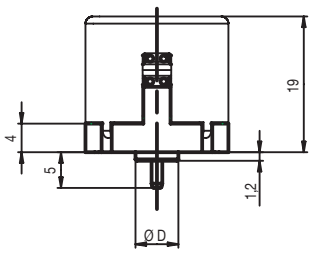
motor type	∅D	
UAT35	∅8	0 -0.05
UAT3G	∅6	0 -0.05



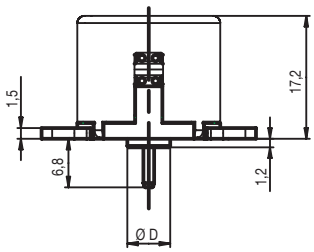
Use bolts with
thread length 4mm max.
Screw in torque 10cNm max.

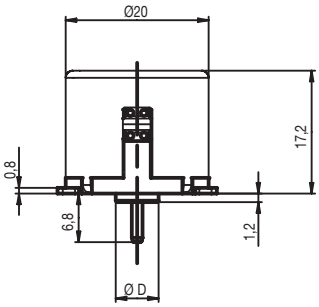






6-FRONT





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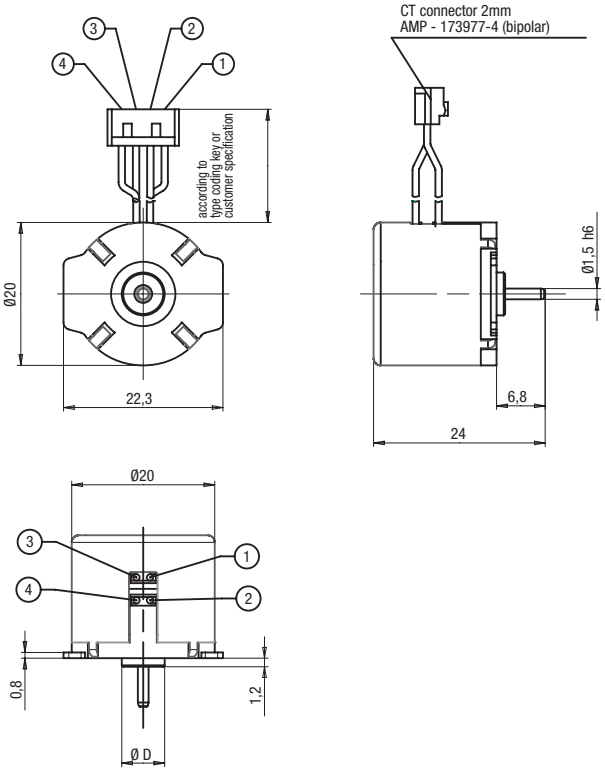
3
2
4
1
according to
type coding key or
customer specification
Ø20
22,3
CT connector 2mm
AMP - 173977-4 (bipolar)
Ø1,5 h6
6,8
24
Ø20
3
1
4
2
0,8
1,2
Ø D