

80 W Motomate Planetary gearboxes Part number made to order



- Movement control for simple mechanisms
 All-in-one solution for quick integration
- Compact with high performance
- Intuitive programming with graphical function blocks
- Adapted for severe environments
- 12 pulses per revolution of the motor
- Independant torque control
- Uses the functionalities of TNi20

num	

Ratio Max. speed (rpm) Available torque (Nm)

General characteristics	
Supply voltage (V)	24 (20 →37)
Max. current (A)	6
Immunity from micro power cuts (ms)	1
Operating temperature (°C)	-20 →+40
Protection index	IP 54

Programming

Inputs / outputs	4l/4/O
Programming method	Function blocks / SFC
Program size	128
Program memory	Flash EEPROM
Program cycle time (ms)	10
Real-time clock	No

Logic inputs

Max. number	4 (I1 →I4)
Input impedance (kΩ)	>10
Logic 1 voltage threshold (V)	> 15
Logic 0 voltage threshold (V)	< 5
Response time (ms)	10

High speed inputs

Max. number	2 (I1 →I2)
Max. frequency (k Hz)	4

Analogue input

Max. number	2 (I3 →I4)
Measurement range	0-10 VDC
Resolution	8 bits
Accuracy	±5%

Logic outputs / PWM

Max. number	4 (O1 →O4)
Type of output	PNP
Insulation	No
Max. current (mA)	250
Leakage current (mA)	< 0,1
Response time (ms)	10
PWM frequency (k Hz)	0.11 →1.8
PWM accuracy at 120 Hz	5 %

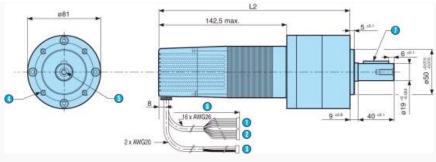
Accessories

Description	Code
Programming kit PC/Motomate - serial port	79 294 791
Programming kit PC/Motomate - USB	79 294 790
Programming software on CD ROM	79 294 792

Dimensions (mm)

Planetary gearboxes

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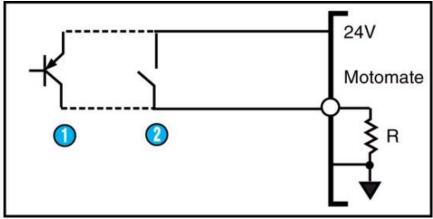
Radial load max. = 200/300/500 N Axial load max. = 80/120/200 N (according to no. of stages)

Nº	Legend	
0	Connector 6 way : programming motomate	
2	Connector 10 way : inputs/outputs motomate	
3	Connector 2 way : power supply	
0	4 holes M6 on Ø 65 depth 12 mm	
6	Fixing hole M6 x 16	
6	Cable length: 500 ± 15 mm	
0	Key A6 x 6 x 28 according to DIN 6885	
	L2 Ratio 5 : 212,8 mm max.	
	L2 Ratio 27 : 234,7 mm max.	
	L2 Ratio 139 : 256,8 mm max.	

User precautions

- *a) Never reverse the polarity of the supply
 *b) Do not short-circuit the outputs O1 to O4 to ground
- Do not use the motor as a generator
- For more details on the geared motors, consult the brushless catalogue

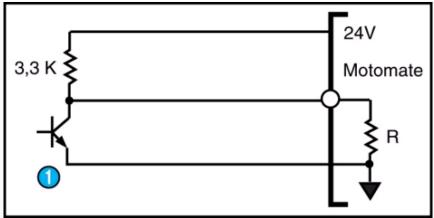
Examples of input connections



No	Legend
1	Sensor output PNP
	or
②	Contact

Applications

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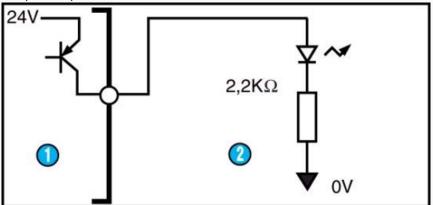
N	0	Legend
•		Sensor output NPN

24V 2,2 K 0,5 W Applications 24V Motomate

Nº	Legend
0	Potentiometer

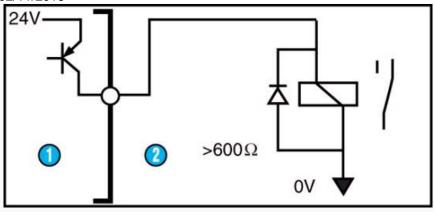
Applications

Examples of output connections



N°	Legend
0	Motor
0	Load LED

Application



N°	Legend
0	Motor
0	Load relay

Product adaptations



- Special output shaft
- Special output shart
 Special supply voltage
 Special cable length
 Customised electronics
 Special connectors
 Special gear ratios
 Special material for the electronics

- Special material for the gear wheels.
- Special mounting platee
- Customer programs installed at the factory