

MORFOSE

Datasheet

COBOT

General information

Number of axes / Controlled axes	up to 7 rotating joints
Max payload	up to 20 kg
Range	up to 1200 mm
Programming	graphical user interface 10 " touchscreen + 20 physical buttons
Mounting	every direction
Footprint	diam. < 200 mm
Materials	Aluminium, steel
Cable length (robot arm)	5 m (can be changed on demand)
Weight including cable	< 40 kg

Modular assembly

Reconfiguration time	10 minutes
----------------------	------------

Performance

Repeatability (ISO 9283)	+/- 0,1 mm
Nominal TCP speed	1 m/s
Collaboration operations	Free drive contact sensing speed settings limiting zones
Max. consumption in standard use	< 1500 W
Average consumption in standard use	< 900 W

Environment

Degree of protection	IP54
Noise	< 65 dB(A)
Tools	
Digital input	2
Digital output	2
Analog in	2
Output power supply	12/24 V 2/1 A
Tool connector type (end effector)	M8
Ambient temperature	0-50 °C
Ambient humidity	90% RH (non-condensing)

Modules

Modules	Nominal torque (Nm)	Max torque (Nm)	Lenght (mm)	Weight (kg)	Module speed (°/s)	Movement range (°)
M1	271	621	120	7	101,25	∞
M2	149	402	100	4,5	105	∞
M3	81	225	80	3,5	72	∞
BD1200	-	-	360	2,5	-	-
BD900	-	-	210	2	-	-
BC1200	-	-	380	3	-	-
BC900	-	-	230	2,5	-	-

CONTROL BOX

Degree of protection	IP54
Ambient temperature	0-50 °C
I/O ports*	<i>*There is space to add other I/O parts.</i>
Digital input	16
Digital output	16
Analog input	2
Analog output	2
Digital input - Safety	4
Digital output - Safety	4
I/O power supply	24 V 2 A
Dimensions (WxHxD)	600x280x300 mm
Weight	< 16 kg
Materials	Aluminium, steel
Communication	Modbus TCP ETHERNET IP USB 2.0 USB 3.0 PROFINET CANopen EtherCAT + on demand
Power supply	200-240 VAC / 47-63 Hz
Ambient humidity	90% RH (non-condensing)

TEACH PENDANT

Degree of protection	IP54
Ambient humidity	90% RH
Display resolution	1280 x 800 pixels
Materials	Plastic
Weight including 5 m TP cable	< 2 kg
Cable length	5m (can be changed on demand)