

Appendix 4

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INDUSTRIAL ROBOT AND CONTROL UNIT

Technical Data

General	Axes Drives Control Positional Control Coordinates Structure Interconnecting cables	6 AC Brushless electric motors Digital Absolute resolvers, non-volatile Cartesian, revolute Revolute 5 m (between arm and control unit)
Work envelope	Reach at tool flange Reach at wrist center Working volume Working range	985 mm 900 mm 360° working volume in lefty or righty configuration Axis 1 - Axis 2 - Axis 3 - Axis 4 - Axis 5 - Axis 6 320° 275° 285° 540° 225° 540°
Load capacity	Nominal payload Maximum payload Tool Flange	6 kg 9 kg (at low speed) ISO 9409 - 1 - A 40 Outside dia. 50 mm
Performance	Repeatability Maximum speed Cartesian speed Nominal speed	± 0,02 mm (constant temperature) 9,8 m/s 1,5 m/s Axis 1 - Axis 2 - Axis 3 - Axis 4 - Axis 5 - Axis 6 240°/s 200°/s 286°/s 401°/s 320°/s 580°/s
Control unit	CPU FPU Programming I/O Interface Options Memory capacity	Motorola 68030 Motorola 68882 *V** advanced programming language and/or teach pendant 12 In/6 Out in standard version, expandable to 64 In/64 Out by 32 In/32 Out module 3 RS-232 serial ports 1 RS-422/485 serial ports Analog inputs/outputs 10 m Interconnecting cables (between arm and control unit) RAM : 4 Mbytes, expandable to 8 Mbytes Hard disk : 40 Mbytes minimum Built in 3 1/2" disk drive, (1,44 Mbytes) IBM PC format
Work environment	Temperature Humidity Interference suppression Power supply	5 to 40° C (CEI 204-1) < 90 % non condensing (CEI 204-1) Incorporated 230, 400, 440, 480 V 3-phase 50/60 Hz - 4 kVA
Weight	Arm Control unit	105 kg 200 kg

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