

G12 Control cabinet

INDUSTRIAL ROBOT ELECTRICAL CABINET



Functional Features

- Strong stability :ARM architecture has the characteristic of strong stability ,the controller system operation stability, high reliability, can support various industrial agreements, network interfaces and a variety of peripheral devices
- Excellent performance: The industrial robot control cabinet based on ARM platform has high efficiency, low power consumption and multi-task capability, and can support real-time multi-service operation; ensure the accuracy and speed of the robot
- Volume reduction: Compared with the first generation of products, the size of the robot electric cabinet is further reduced, which can realize the installation within a small space range and further save space.

G12 CABINET TECHNICAL INDEX

Model	CRP-G12-CD40C
Teaching pendant	Touch Panel, Emergency Stop Button, Mode Selector Switch, Safety Switch, Quick Keypad
	C-type Teaching pendant, standard 6m cable
	8-inch TFT-LCD touch panel
Size & weight	290(W)×220(H)×110(T)mm, 1.3kg
	370(W)×170(H)×480(D)mm (G12A:18kg, G12B:25kg)
Protective structure	IP20
Cooling method	Forced air cooling
Environmental parameters	Storage temperature: -10℃~65℃
	Use temperature: 0~45℃
	Relative humidity: 20%~85%RH (no condensation)
	Altitude: ≤2000m
	Corrosion: no corrosive gases and liquids
Power supply	Single-phase AC220V ±10%, 50/60Hz
Connection cable	Power cord standard 3 meters, interconnecting cable standard 5 meters
Grounding	Must have protective earth (PE)
System configuration	Main Frequency: 1.6GHz, Memory: DDR4L 1333MHz 2GByte, Hard Disk: 8G EMMC, UPS: 7S
Hardware interface	Digital I/O interface, 24-channel NPN input/24-channel output, output voltage 24V, output transistor 200mA
	4-channel 0~10V analog output, 2-channel optional isolation, 12-bit precision.
	2 encoder signal interfaces, 5V encoder power supply
	1 Gigabit network, 1 Hundred Gigabit network (1 occupied by the demonstrator), 2 Gigabit networks can be expanded according to customer demand
	2-way RS485, 2-way CAN2.0
Robot safety	1 USB2.0 for cabinet door pane
	Cabinet door emergency stop, external emergency stop, anti-collision, servo STO
EMC Test standards	IEC 61000-6-2:2016
Communication protocols	Standard: ModbusRTU master/slave, ModbusTCP master/slave, EtherCAT master Options: PROFINET slave, EtherCAT slave, EtherNet/IP slave, CC-Link IE Field slave
Operating mode	Teach, reproduce, remote
	Point-to-point, linear interpolation, circular interpolation, gate motion
Command system	Motion, Logic, Process, Arithmetic
Coordinate system	Joint coordinates, Cartesian coordinates, User coordinates, Tool coordinates, World coordinates
Software package	Handling, Palletizing, Vision, Tracking, Background Tasks, Servo Collision, Soft Float, Chinese Programming
Other	Built-in PLC, regeneration in case of power failure, encoder interface (synchronous belt support), CrobotpLab (PC programming).
Number of control axis	Standard configuration 4 axes (external axes are optional, the maximum expansion of external axes 6 axes)
Supported body model	4-axis SCARA series / 4-axis small palletizing series

Dimensions of the electrical cabinet

