

SIEMENS

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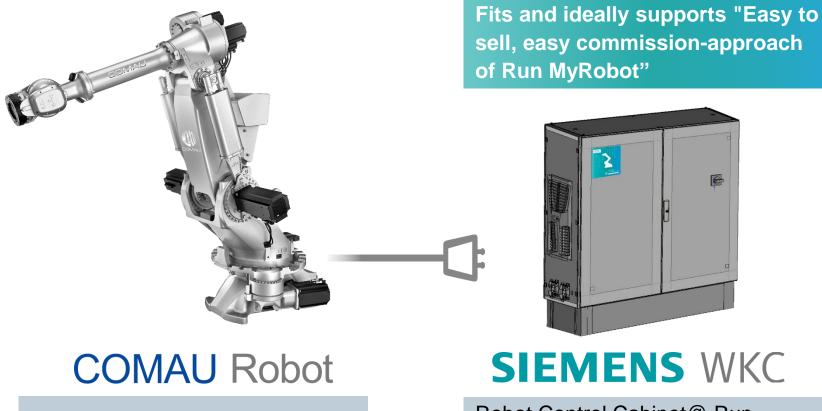
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Scope of supply Robot Control Cabinet for CNC Application





Robot Control Cabinet@ Run MyRobot for the CNC controlled Processing Application



Note: Commissioning and Pre-Commissioning of CNC, PLC and HMI not in the scope of supply by Siemens WKC

external Cable-Set

Comau supply the Kinematic and

Supported robot kinematics





No.	Robot OEM	Robot type	RCC Size	
1.	COMAU	Racer 7 1.0	RCC Size 1	
2.	COMAU	Racer 7 1.4 Rel. 2.1		
3.	COMAU	NS 12 1.85	RCC Size 1	
4.	COMAU	NS 16 1.65	RCC Size 1	
5.	COMAU	NJ 16 3.1	RCC Size 1	
6.	COMAU	NJ 40 2.5	RCC Size 1	
7.	COMAU	NJ 60 2.2	RCC Size 1	
8.	COMAU	NJ 110 3.0	RCC Size 1	
9.	COMAU	NJ 130 2.05	RCC Size 1	
10.	COMAU	NJ 130 2.6	RCC Size 1	
11.	COMAU	NJ 165 3.0	RCC Size 1	
12.	COMAU	NJ 220 2.7	RCC Size 1	
13.	COMAU	NJ 290 3.0	RCC Size 2	
14.	COMAU	NJ 370 2.7	RCC Size 2	
15.	COMAU	NJ 370 3.0	RCC Size 2	
16.	COMAU	NJ 420 3.0	RCC Size 2	
17.	COMAU	NJ 500 2.7	RCC Size 2	
18.	COMAU	NJ 650 2.7	RCC Size 2	
RCC: Robot Control Cabinet				

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Siemens MC MTS supported robot kinematics are listed in the Siemens SIOS portal, based on Sizer Project Specification Version 1.1.0

SIOS entry ID 109757564

Technical Data / Value Standard Basic Specification V1.1.0



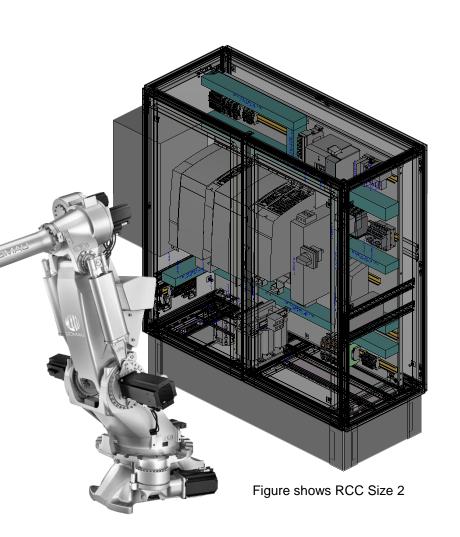
PARAMETER	Data / Value
Grid Type	TN-C
Rated Voltage	3AC 400V
Nominal Current	TN-C 3AC 400V 13,6A68A Kinematics type dependent
Frequency	50Hz
Rated Control Voltage	DC 24V (buffered 4s)
Color	Enclosure RAL 7035, Plinth RAL 9005
Dimension (H x W x D) incl. plinth and air condition unit	RCC Size 1: 1.400 x 1088 x 500mm RCC Size 2: 1.400 x 1488 x 500mm

Technical Data / Value Standard Basic Specification V1.1.0



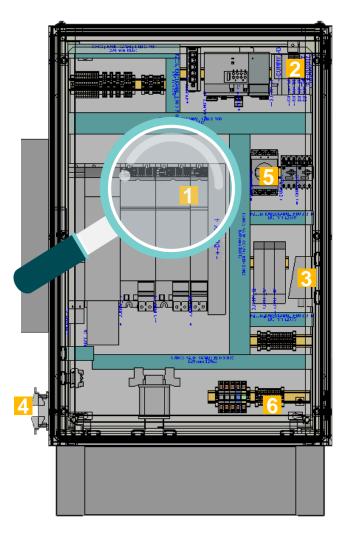
PARAMETER	Data / Value	
IP Protection Class enclosure	IP 54 for ambitious conditions	
Climatisation	Air conditioning unit for ambitious conditions	
Charge of the Neutral Conductor	not required	
Ambient Temperature (max.)	35°C	
Electromagnetic Compatibility (EMC)	Cat. C4 based on EN 61800-3	

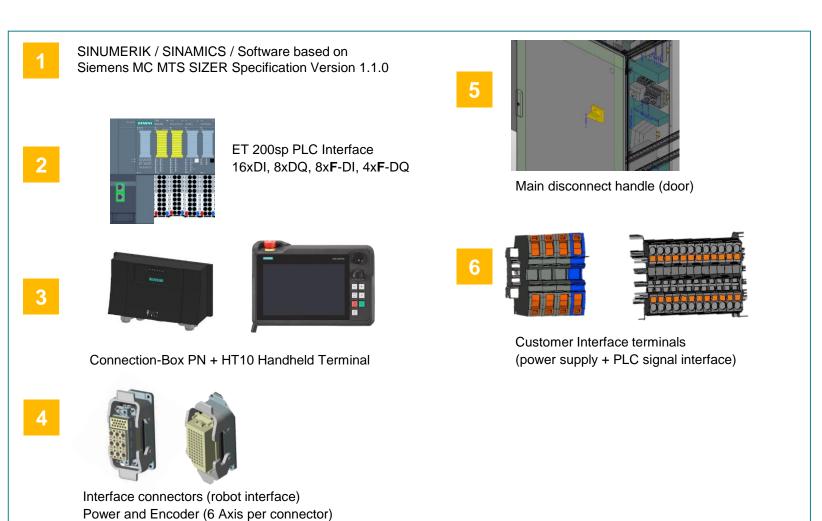
The Robot Control Cabinet (RCC) is a component designed to be used and integrated into a machine system. The machine manufacturer/end user is solely responsible for the safety of the machine system, conformity with EU directives, and suitability in the end user's application.



Standard Basis Specification V1.1.0

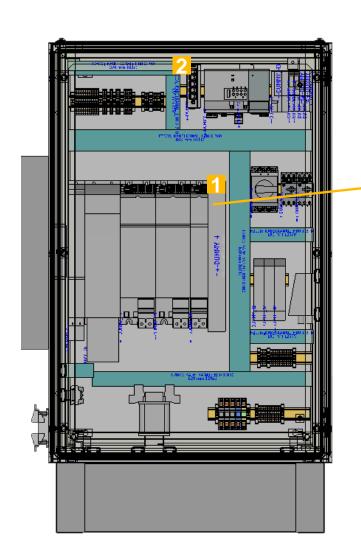






Additional Standard Options







SINAMICS Line Filter (Cat. C3 and C2 based on EN 61800-3) Conformance to special EMC requirements



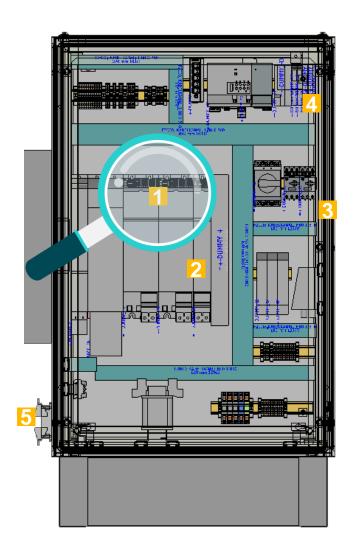
Ethernet Switch

Note:

 Not part of the Standard Basic Specification V1.1.0

Customized Functions (based on Application)









PLC Module Extension



Interface Extension (Connectors, Terminals)

Note:

- Not part of the Standard
 Basic Specification V1.1.0
- Additional Design Engineering necessary

Customer Benefits





"Plug and Play"
meets customer expectation,
when integrating robots

Feature / Function

- Standard + option design
- Digital Twin for machinery integration
- Design support for customized functions
- Optimized enclosure design
- Robust cooling and EMC concept
- International certification

Benefit

- Easy to sell, one complete component
- Easy and short time installing
- Easy commission-approach of Run MyRobot
- Small footprint
- Eplan dokumentation for further digital integration
- Worldwide availability

References









Customer projects

 Felsomat, M-Robot, DLR, ELHA, RWTH Aachen, VLM Robotics, div. Siemens CT & MC Business Units)

Equipping of a demonstration cell

 RCC für COMAU at Köln incl. cOP@ WKC

Development and construction of a functional trade fair model

 Digital Enterprise at HMI 2019 and SPS 2019 Nürnberg





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