SIEMENS

Data sheet 5TT3200-2KK30

CHARGING CONTROLLER 16A FOR CHARGING UNTIS IEC 61851, MODE 3 230/400V POWER SUPPLY 24V DC



Model		
product brandname	SIPLUS ECC1000	
Product designation	CM-100	
Design of the product	acc.to IEC61851	
Operator element version / of the charging station	Charging mode 3 in accordance with IEC 61851	
General technical data		
Protection against electrical shock	finger-safe	
Voltage		
Insulation voltage / with degree of pollution 3 / rated	230 V	
value		
Surge voltage resistance / rated value	4 kV	
Supply voltage		
Type of voltage / of the supply voltage	DC	
Consumed current / for rated value of supply voltage	300 mA	
Protection class		
Protection class IP / on the front	IP20	
Electricity		

Charging current	
● maximum	16 A
Auxiliary circuit	
Operating current / of auxiliary contacts	
• at AC / at 110 V	0.75 A
• at AC / at 230 V	0.75 A
• at DC / at 24 V	1 A
Product details	
Product description	Actuation and monitoring of power components in the charging station, used for communication with the electric vehicle in acc. with IEC61851
Product function	
Product function	
 removable terminal for auxiliary and control circuit 	Yes
Bus communication	No
Display and operation	
Number of LEDs	1
Display version	
 as status display of the inputs/outputs 	orange, flashing (1 Hz), device waiting for enable
● for fault signal	red, flashing / twinkling, fault
for normal operation	green, flashing / continuously illuminated, waiting for EF / charging active
Communication	
Protocol / is supported	
 EIB/KNX protocol 	No
 Ethernet protocol 	No
• Vehicle communication acc. to IEC 61851	Yes
Inputs Outputs	
Input voltage	
• minimum	0 V
• maximum	5 V
Number of digital outputs	0
Number of digital inputs	2
Number of interfaces / acc. to IEC 61851	1
Connections	
Connectable conductor cross-section	
• solid	
— minimum	0.5 mm ²
— maximum	2.5 mm²

finely stranded	
— with core end processing / minimum	0.5 mm ²
— with core end processing / maximum	2.5 mm ²
- without core end processing / minimum	0.5 mm ²
— without core end processing / maximum	2.5 mm ²
AWG number / as coded connectable conductor	
cross section	
• minimum	20
• maximum	14
Type of electrical connection	
 of the inputs and outputs 	combicon connection GMSTB 2.5
for auxiliary and control current circuit	combicon connection MSTB 2.5
Contact assignment	
● of socket 1 at PIN 1	I+24 V: 24 V DC connection (SELV)
of socket 1 at PIN 2	M: 24 V DC connection (SELV)
● of socket 2 at PIN 1	FE: Functional ground (part of the vehicle interface, connection to plug in accordance with IEC61851)
• of socket 2 at PIN 2	PX: Proximity (part of the vehicle interface, connection to plug in accordance with IEC61851)
• of socket 2 at PIN 3	CP: Control Pilot (part of the vehicle interface, connection to plug in accordance with IEC61851)
• of socket 3 at PIN 1	AV: Auxilary voltage (readback voltage for device's own digital inputs)
• of socket 3 at PIN 2	EN: Enable (digital input for module enable)
• of socket 3 at PIN 3	HL: Hatch lock (digital input for status of connector lock)
● of socket 4 at PIN 1	P1: "Power" relay contact for switching load contactor
• of socket 4 at PIN 2	P2: "Power" relay contact for switching load contactor
• of socket 4 at PIN 3	V1: Ventilation relay contact for switching fan
• of socket 4 at PIN 4	V2: Ventilation relay contact for switching fan
• of socket 4 at PIN 5	H1: Hatch relay contact for switching locking
• of socket 4 at PIN 6	H2: Hatch relay contact for switching locking
• of socket 4 at PIN 7	S1: signal relay contact for reporting faults
● of socket 4 at PIN 8	S2: signal relay contact for reporting faults
Mechanical Design	
Height	91 mm
Width	72 mm
Depth	71 mm
Mounting position	vertical, on horizontal standard mounting rail
Mounting type	snap-on mounting on 35 mm DIN rail according to DIN EN 60715
Required spacing / with side-by-side mounting	

• upwards

• downwards

40 mm

40 mm

 Backwards 	0 mm
• at the side	0 mm
forwards	5 mm
Required spacing / for grounded parts	
• upwards	20 mm
downwards	20 mm
Backwards	0 mm
• at the side	0 mm
forwards	5 mm
Required spacing / for live parts	
• upwards	20 mm
• downwards	20 mm
 Backwards 	0 mm
• at the side	0 mm
• forwards	5 mm
Material / of the enclosure	Wellamid 6600-PA66-GV 30 HWV0CP

Environmental conditions	
Installation altitude / at height above sea level /	2 000 m
maximum	
Electrostatic discharge / acc. to IEC 61000-4-2	4 kV contact discharge / 8 kV air discharge, evaluation criterion B
EMC emitted interference / acc. to IEC 61000-6-3	Suitable for operation in residential, public and industrial environments
EMI immunity / acc. to IEC 61000-6-2	Suitable for operation in industrial and residential environments
Field-bound parasitic coupling / acc. to IEC 61000-4-3	80 MHz to 1 GHz 10 V/m, 1.4 GHz to 2 GHz 3 V/m, 2 GHz to 2.7 GHz 1 V/m, evaluation criterion A
Contact reliability	80000 operating cycles at 1 A, inductive load
Conducted interference / due to high-frequency radiation / acc. to IEC 61000-4-6	3 V rms in the frequency range 0.15 80 MHz, modulation 80 % AM at 1 kHz, evaluation criterion A
Conducted interference / due to burst / acc. to IEC 61000-4-4	2 kV / 5 kHz DC supply lines, 2 kV / 5 kHz control lines and relay outputs
Conducted interference / due to surge / acc. to IEC 61000-4-5	Asymmetrical: DC supply lines 0.5 kV / 12 ohms; DC supply lines 1 kV / 42 ohms; control lines and functional ground 2 kV / 42 ohms; relay outputs 4kV / 12 ohms; evaluation criterion B. symmetrical: DC supply lines 0.5 kV / 2 ohms; DC
Relative humidity / during operation	
• minimum	0 %
• maximum	95 %
Shock resistance	
• acc. to IEC 60068-2-27	15g / 11 ms / 3 shocks per axis
• during transport / acc. to IEC 60068-2-29	1000 shocks / axis, 25g, 6 ms semi-sinusoidal
Vibration resistance	
during operation / acc. to IEC 60068-2-6	5 to 8.4 Hz / 3.5 mm displacement, 8.4 to 150 Hz / 1g
• during transport / acc. to IEC 60068-2-6	5 to 8.4 Hz / 3.5 mm displacement, 8.4 to 500 Hz / 1g

Magnetic field immunity at power frequencies / acc. to EN 61000-4-8	100 A/m at 50 Hz and 60 Hz, evaluation criterion A
Ambient temperature	
during operation / minimum	-25 °C
during operation / maximum	60 °C
during storage / minimum	-25 °C
during storage / maximum	70 °C
during transport / minimum	-25 °C
during transport / maximum	70 °C

Declaration of Conformity



Information- and Downloadcenter (Catalogs, Brochures,...)

http://www.siemens.com/lowvoltage/catalogs

Industry Mall (Online ordering system)

https://mall.industry.siemens.com/mall/en/en/Catalog/product?mlfb=5TT3200-2KK30

Service&Support (Manuals, Certificates, Characteristics, FAQs,...)

http://support.automation.siemens.com/WW/view/en/5TT3200-2KK30/all

Image database (product images, 2D dimension drawings, 3D models, device circuit diagrams, ...) http://www.automation.siemens.com/bilddb/cax_en.aspx?mlfb=5TT3200-2KK30

CAx-Online-Generator

http://www.siemens.com/cax

Tender specifications

http://www.siemens.com/specifications



