SIEMENS

Data sheet

6FE1242-6TM20-0BB1



SIMATIC ET 200SP TM ECC PL ST Chargecontroller for conductiv Charging of electric vehicles according DIN SPEC 70121 Charging Mode 4 TEMP:-30°C...60°C 1x Control Pilot including Powerline Green Phy 1x Plug Present / Proximty Pilot 1x Digital Out TRIP-Funktion as Open Collector 1x Digital Out (DQ P) as Open Collector suitable for BU Typ BU20-P12+A0+4B or BU-Typ BU20-P12+A4+0B

General information	
Product type designation	ECC PL ST
HW functional status	1
Firmware version	V1.1
 FW update possible 	Yes
Product description	Technology module for the conductive charging of electric vehicles according to DIN 70121
usable BaseUnits	BU type B0, B1
Number of channels	1; Acc. to IEC 61851-1 Mode 4 and DIN SPEC 70121
Product function	
• I&M data	Yes; I&M0 to I&M3
Isochronous mode	No
Engineering with	
 STEP 7 TIA Portal configurable/integrated from version 	STEP 7 V16 or higher
Installation type/mounting	
Mounting type	standard rail
Mounting position	Horizontal, vertical
Supply voltage	
Type of supply voltage	DC
Rated value (DC)	24 V
permissible range, lower limit (DC)	19.2 V
permissible range, upper limit (DC)	28.8 V
Reverse polarity protection	Yes; against destruction
Load voltage L+	
 Rated value (DC) 	24 V
 permissible range, lower limit (DC) 	19.2 V
 permissible range, upper limit (DC) 	28.8 V
 Reverse polarity protection 	Yes
Input current	
Current consumption, typ.	40 mA
Current consumption, max.	100 mA
Digital inputs	
Number of digital inputs	0
Digital inputs, parameterizable	No
Cable length	
• shielded, max.	10 m
Digital outputs	
Type of digital output	Transistor
Number of digital outputs	2; 1x digital out TRIP function as open collector, 1x digital out (DQ P) as open collector

Yes
Yes
Yes; acc. to DIN SPEC 70121 and ISO 15118
1; 1 per channel
No; 1 kHz
No; Only fixed charging cables are permitted for DC charging systems
0.6 A; Per digital output
DC
24 V
10 m
1
Control pilot including Powerline Green Phy, acc. to DIN SPEC 70121
No
Yes; Backplane bus
Yes; Mode 4
Yes
No; Supply voltage diagnostics
No
No
No
Yes; green PWR LED
Yes; green LED
Yes; green/red DIAG LED
Na: Only and channel is available
No; Only one channel is available
Yes
707 V DC
707 V DC 2
2
2 4 kV contact discharge / 8 kV air discharge
2
2 4 kV contact discharge / 8 kV air discharge
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz)
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz) 2 kV signal lines
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz) 2 kV signal lines On DC supply lines: 0.5 kV symmetrical and asymmetrical
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz) 2 kV signal lines On DC supply lines: 0.5 kV symmetrical and asymmetrical 10 V (0.15 80 MHz)
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz) 2 kV signal lines On DC supply lines: 0.5 kV symmetrical and asymmetrical
2 4 kV contact discharge / 8 kV air discharge 10 V/m (80 1 000 MHz), 3 V/m (1.4 2.0 GHz), 1 V/m (2.0 2.7 GHz) 2 kV signal lines On DC supply lines: 0.5 kV symmetrical and asymmetrical 10 V (0.15 80 MHz) IP20
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Storage, min.	-40 °C
 Storage, max. 	70 °C
• Transportation, min.	-40 °C
• Transportation, max.	70 °C
Altitude during operation relating to sea level	
 Installation altitude above sea level, max. 	2 000 m
Ambient air temperature-barometric pressure-altitude	Tmin Tmax at 1 080 hPa 795 hPa (-1 000 m +2 000 m)
Relative humidity	
Operation, min.	5 %
Operation, max.	95 %; no condensation
Vibrations	
Vibration resistance during operation acc. to IEC 60068- 2-6	10 58 Hz / 0.075 mm, 58 150 Hz / 1 g
Shock testing	
 Shock resistance acc. to IEC 60068-2-27 	15 g / 11 ms
Decentralized operation	
to SIMATIC S7-1500	Yes
Dimensions	
Width	20 mm
Height	73 mm
Depth	58 mm
Weights	
Weight, approx.	51 g
Other	
Note:	The Tone Mask of the Green Phy defined in DIN 70121 for North America applies

last modified:

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