Report No. 028-713182551-000\_WALL

IEC 60309-1 & 2

Clause Requirement + Test

Result - Remark

TEST REPORT			
Standard DIN EN 60309-1:2013			
	TUV SUD Test Report		
Report No.:         028-713182551-000_WALL			
Date of issue:	31.03.2021		
Project handler:	Matthias Klement		
Testing laboratory:	TÜV SÜD Product Service		
Address:	Daimlerstraße 40 ; 60314 Frankfurt		
Testing location:	as above		
Client:	Easee AS		
Client number:	5010656586		
	Grenseveien 19		
Address:	4313 Sandnes		
Address.	Rogaland		
	NORWAY		
Contact person:	Jonas Helmikstol		
Standard:	This TUV SUD test report form is based on the following requirements:		
	DIN EN 60309-1:2013		
TRF number and revision:	00		
TRF originated by:	TUV SUD Product Service, Mr. Reinhod Hug (product specialist)		
Copyright blank test report:	This test report is based on the content of the standard (see above). The test report considered selected clauses of the a.m. standard(s) and experience gained with product testing. It was prepared by TUV SUD Product Service.         TUV SUD Group takes no responsibility for and will not assume liability for damages resulting from the reader's interpretation of the reproduced material due to its placement		
General disclaimer:	and context.This test report may only be quoted in full. Any use for advertising purposes must be granted in writing. This report is the result of a single examination of the object in question and is not generally applicable evaluation of the quality of other products in regular production.		
Scheme:	TUV Mark 🛛 without certification		
	GS Mark NRTL Mark EU-Directive		
Non-standard test method:	No Yes, see details under Summary of testing		
National deviations:	Without / keine		
Number of pages (Report):	19		
Number of pages (Attachments): -			

Report No. 028-713182551-000\_WALL

		IEC 60309-1 & 2		
Clause	Requirement + Test		Result - Remark	Verdict
Compiled by	y:	Matthias Illes SIGN-ID 482195 31.03.2021 Matthias Klement		
		(Printed Name and Signature)		
Approved by	y:	SIGN-ID 488744 Reinhold Hug		
		(Printed Name and Signature)		
Test sample		MUC-481635-1, FFM-552333		
Type of test	object:	EV Charging Robot		
Trademark:		Easee		
Model and/c	or type reference:	EVSE		
Rating(s):		<ul> <li>1.4 – 22 kW charging power</li> <li>Advanced load balancing</li> <li>Integradted RCD Type-B</li> <li>RFID / NFC-reader</li> <li>Type 2 socket</li> </ul>		
Manufacture	er:	Same as client		
Manufacture	er number:	5010656586		
Address:		Grenseveien 19		
		4313 Sandnes		
		Rogaland		
		NORWAY		
Sub-contrac	tors/ tests (clause):	N/A		
Name:		N/A		
		Complete test according to	TRF	
		Partial test according to ma	anufacturer's specifications	
Order descr	iption:	Preliminary test		
		Spot check		
		Others:		
Date of orde	er:	2020-02-11		
Date of rece	Date of receipt of test item: 2020-03-24 Munich, 2020-04-02 Frankfurt			
Date(s) of p	erformance of test:	28.05.2020 - 10.03.2021		
Test item pa		narger for electrical vehicles) Eas	see Charger	

Page 2 of 19

Page 3 of 19

Г

Report No. 028-713182551-000\_WALL

	IEC	60309-1 & 2	
Clause	Requirement + Test	Result - Remark	Verdic
Purposo	of the product (Description of intended use):		
Charging	• • • • • • • • • • • • • • • • • • • •		
Onarging			
Characte	ristic data (not shown on the marking plate):		
Charging			
Charging	power: 1.4 – 22 kW		
Charging	connector: Type 2		
Number o	of phases: 1, 2 or 3		
Voltage: 2	230V / 400V AC (+ - 10%)		
Automatio	c locking of the charger connector		
Built-in er	nergy meter		
Easee Ho	ome: Up to 3 charging robots on the same	cable	
Easee Ch	narge: Fullly scalable		
Safety:			
Built-in R	CD Type B (30mA AC / 6 mA DC)		
RCD dev	ice is automatically reset by disconnecting	the charging cable	
Degree o	f protection: IP54		
Impact re	sistance: IK10		
Fire class	:: UL94		
Insulation	class: II		
Surge cla	iss: III		
General			
Dimensio	ns: H:256 x W:193 x D:106		
Operating	g temperature: -30°C til 40°C		
Weight: 1	.5 kg		
Attachme	nts:		
-			
General ren	narks:		
"(see appen Throughout The test res	k #)" refers to a remark appended to the report. Ided table)" refers to a table appended to the report. this report <b>a comma</b> is used as the decimal separato ults presented in this report relate only to the object te shall not be reproduced except in full without the writte	ested.	

Page 4 of 19

Report No. 028-713182551-000\_WALL

IEC 60309-1 & 2

Clause	Requirement + Test	Result - Remark

Summary of testing:	
Tested according following clauses	s of DIN EN 60309-1:2013:
<ul> <li>9 Protection against electric shoc</li> <li>10 Provision for earthing</li> <li>11 Terminals</li> <li>13 Resistance to aging of rubber a</li> <li>14 General construction</li> <li>15 Construction of socket outlets</li> <li>20 Breaking capacity</li> <li>21 Normal operation</li> <li>22 Temperature rise</li> <li>23 Flexible cables and their connect</li> <li>25 Screws, current-carrying parts a</li> <li>26 Creepage distances, clearances</li> <li>27 Resistance to heat, fire and trace</li> </ul>	nd thermoplastic material ctions and connections s and distances through sealing compound
☐ deviation(s) found ⊠ no deviations found	
Additional information on Non-s	tandard test method(s)
Sub clause:	None
Page:	None
Rational:	
If additional information is neces	ssary, please provide
The test contains only the assessn	nent of the plug-in connection of the main-connection.
The assessment based on the app	licable clauses of the standard.
The actual standard DIN EN 62752	2 for plug-in connection of an in-cable control and protection device
(IC-CPD) does not provide require	ments for the terminals for connection to supply mains. Therefor the
applicable requirements of DIN EN	60309-1 were tested.
Non-applicable clauses and points	are marked with N/A
Copy of marking plate:	
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Page	6	of	19	
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Report No. 028-713182551-000\_WALL

IEC 60309-1 & 2

Clause Requirement + Test

Result - Remark



Page 7 of 19

Report No. 028-713182551-000\_WALL

IEC 60309-1 & 2				
Clause	Requirement + Test		Result - Remark	Verdict

C (Comment)

M (Manufacturing)

### Possible test case verdicts:

test case does not apply to the test object: test object does meet the requirement: test object does not meet the requirement: **Possible suffixes to the verdicts:**  N/A (not applicable / not included in the order) P (Pass) F (Fail)

suffix for detailed information for the client: suffix for important information for factory inspection:

9	PROTECTION AGAINST ELECTRIC SHOCK		-
9.1	Live parts not accessible with test finger		Р
	Contact between one pin and contact tube impossible		Ρ
	Conformity to Standard sheet: ensure compliance	Special connection System	N/A
9.2	Earthing connection: made before phase and neutral connection	Clamp for PE is leveled above the other clamps	Р
	and broken after phase and neutral		Р
	Conformity to Standard sheet: ensure compliance:	Special connection System	N/A
9.3	Impossible assemble plug contacts into enclosure		N/A

10	PROVISION FOR EARTHING		-
10.1	Earthing contact provided with earthing terminal		Р
	External earthing terminals visible from outside	No metal casing and no external earthing terminals	N/A
	Connection reliably		Р
	Insulating transformer: not connected to earthing	No insulation transformer in the observed connections	N/A
10.2	Accessible metal parts: reliably connected	Housing without metal parts	N/A
	Resistance not exceed $0.05 \Omega$ I = 25 A		N/A
10.3	Temperature rise: clause 22		Р
10.4	Earthing contact protected against mechanical		Р
	Not permitted side earthing contacts		N/A

11	TERMINALS		-
11.1.1	Rewirable accessories accept flexible conductors		Р
11.1.2	Non-rewirable accessories provided with soldered, welded or crimped connections	No such connection	N/A
11.1.3	Terminals without special preparation	Connections with screws are terminals for wire end ferrule Other connections are screwless	Ρ

Page 8 of 19

Report No. 028-713182551-000\_WALL

### IEC 60309-1 & 2

Clause Requirement + Test

Result - Remark

11.1.4	Terminals:		-
	- copper		N/A
	- alloy 58 % copper (worked cold) or 50 % other parts	U-Tail-Terminal: CuZn37	Р
	- other metal not less resistant to corrosion	Clamps certified according UL486A-B and UL486C	Р
	Steel screws protected against corrosion		N/A
11.1.5	Body of earthing terminal: same metal as 11.1.4		Р
	Clamping screws or nuts: same metal as 11.1.4		Р
	Body or earthing terminal protected against corrosion		N/A
11.1.6	Terminals properly fixed, not work loose when clamping screws are tightened or loosened		Р
	Screws and nuts not serve to fix any other components		Р
11.1.7	Each terminal located correctly		Р
11.1.8	Terminals be located or shielded that:		Р
	- screws becoming loose from the terminals, not establish electrical connection between live parts and metal parts connected to the earth		Р
	- conductors becoming detached from live terminals not touch metal parts connected to the earth		Р
	- conductors becoming detached from the earth not touch live parts		Р
11.1.9	The free wire of a conductor connected to live terminals middle size (specified in Table 3): type; cross-sectional area (mm <sup>2</sup> ) :	Provided wires were used 6mm <sup>2</sup>	Р
	One wire, length 8 mm of a stranded conductor bent in every direction, no contact with:		Р
	- accessible metal parts	No such parts	N/A
	- not emerge for enclosure		Р
	The free wire of a conductor connected to the earthing terminal, not touch any live part		Р
11.2			-
11.2.1	Terminals allow proper connection of conductors as in Table 3; gauges as in Fig. 13		Р
	other terminals shall be used suitable gauge	Tested with conductors	Р
	Pillar terminal depth of the hole al least half the diameter of the screw		Р
	Lug terminal accept conductor as in Table 3		Р
	Screw type identified by the terminal size as in Table 107 comply with S.S. as in 11.101		N/A

Page 9 of 19

Report No. 028-713182551-000\_WALL

IEC	60309-1	& 2
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0	IEC 60309-1 & 2		
Clause	Requirement + Test	Result - Remark	Verdict
11.2.2	Terminals: appropriate mechanical strength (§ 25.1)		Р
	Thread of screws or nuts ISO or equivalent		Р
11.2.3	Conductors clamping between metal surfaces, without damage (test 11.5)		Ρ
11.2.4	Lug terminals: only for I $\ge$ 63 A	According user manual maximum current is 32 A. Not used for this device.	Ρ
	Locking means: spring washer or equivalent		N/A
11.2.5	Clamping screws or nuts:		Р
	Locked against accidental loosening		Р
	Not possible loosen without tool		Р
11.3	Screwless type terminals		N/A
11.3.1	Terminals allow proper connection of conductors as in Table 3; gauges as in Fig. 13		N/A
	other terminals shall be used suitable gauge		N/A
11.3.2	Conductors clamping between metal surfaces, without damage (test 11.5 and 11.6)		N/A
11.3.3	Terminals: appropriate mechanical strength cross sect: mm <sup>2</sup> ):		N/A
11.3.4	The connection or disconnection either by general tool or device integrated;		N/A
	or simple insertion		N/A
	disconnecting other than a pull only		N/A
11.3.5	Opening for tool clearly distinguishable	No tool necessary	N/A
11.3.6	Terminals:		N/A
	- each conductor is clamped individually		N/A
	- the conductors connected or disconnected either at the same time or separately		N/A
	- comply clause 11.5		N/A
11.3.7	Inadequate insertion of the conductor avoided		N/A
11.3.8	The connected conductor remains clamped		N/A
	Deflection test (principle of test apparatus shown in fig	gure 19a):	-
	- test current (A) (Table 4-4) :		N/A
	Smallest cross-sectional area (Table 3) (mm <sup>2</sup> ) :		N/A
	Force (N) (table 4-1) :		N/A
	- screwless terminal number: :		N/A
	- starting point (X = deflection original point): :		N/A
	- requirement: ≤ 2,5 mV		N/A
	Largest cross-sectional area (Table 3) (mm <sup>2</sup> ) :		N/A
	Force (N) (table 10)		N/A

Page 10 of 19

000\_WALL

	IEC 60309-1 & 2		-
Clause	Requirement + Test	Result - Remark	Verdict
	- screwless terminal number :		N/A
	- starting point (X = deflection original point) :		N/A
	- requirement: ≤ 25 mV		N/A
11.4	Insulation piercing terminals (IPT)		-
11.4.1	IPT allow proper connection of conductors as in Table 3 and Table 10		N/A
11.4.2	Conductors clamping between metal surfaces, without damage (test 11.5 and 11.6)		N/A
	or between metal part and insulated part (11.5 and 11.7)		N/A
11.4.3	IPT appropriate mechanical strength		N/A
	Five insertions and disconnections (mm <sup>2</sup> ):		N/A
	No damage		N/A
11.4.4	The connection or disconnection either by general tool or device integrated;		N/A
	disconnecting other than a pull only		N/A
11.4.5	Opening for tool clearly distinguishable		N/A
11.4.6	IPT:		N/A
	- each conductor is clamped individually		N/A
	- the conductors connected or disconnected either at the same time or separately		N/A
	- Clause 11.5		N/A
11.5	Mechanical tests on terminals		-
11.5.1	Flexion test:		N/A
	Smallest cross-sectional area (mm <sup>2</sup> ); height H (mm); mass (kg):	Certified according UL486A-B	
	Largest cross-sectional area (mm <sup>2</sup> ); height H (mm); mass (kg)	Certified according UL486A-B	
	during the test: the conductor does not slip out, no break near clamping unit and no damage	Certified according UL486A-B	N/A
11.5.2	Pull test:		N/A-
	- min. cross-sectional area (mm <sup>2</sup> ); pull (N):	Certified according UL486A-B	
	- max. cross-sectional area (mm <sup>2</sup> ); pull (N):	Certified according UL486A-B	
	- during the test the conductor does not come out	Certified according UL486A-B	N/A
11.6	Voltage drop test for screwless type terminals and IP	Г	N/A
	Temperature (°C)		N/A
	Smallest cross-sectional area (mm <sup>2</sup> ):		N/A
	Current (A):		N/A

# 000\_WALL

Clause	Requirement + Test	Result - Remark	Verdict

	Voltage drop after 192 cycles:		-
	- requirement: 22,5 mV or 1,5 times 24th cycle value:		N/A
	- solid conductors:		N/A
	- stranded conductors:		N/A
	- flexible conductors:		N/A
	Largest cross-sectional area (mm <sup>2</sup> ):		N/A
	C6rrent (A):		N/A
	Voltage drop after 192 cycles:		-
	- requirement: 22,5 mV or 1,5 times 24th cycle value:		N/A
	- solid conductors:		N/A
	- stranded conductors:		N/A
	- flexible conductors:		N/A
11.7	Tests for IPT transmitting contact pressure via insulat	ing parts	N/A
11.7.1	Same as 11.6 except:		N/A
	- 384 cycles; voltage drop after 48 <sup>th</sup> and 384 <sup>th</sup> cycle;		N/A
	- requirement: 22,5 mV or 1,5 times 48th cycle value :		N/A
11.7.2	Short-time withstand current test		N/A
	- cross-sectional area (mm <sup>2</sup> ):		N/A
	- test current (A):		N/A
	- duration of the test current (s):		N/A
	Voltage drop after short-time withstand current test:		N/A
	- cross-section of the conductor (mm <sup>2</sup> ):		N/A
	- test current (A):		N/A
	- voltage drop (mV) after short-time withstand current test not exceeding 1,5 times before test:		N/A
	No change, cracks or deformation		N/A
11.101	Screw type terminals identified by terminal sizes		Р
11.101.1	Terminals comply with Standard sheet:	2-X	Р
11.101.2	Terminals with reduced length of thread (cross sect: mm <sup>2</sup> )		N/A
	Pull test: during the test, no movement (N):		N/A

13	RESISTANCE TO AGEING OF RUBBER AND THERMOPLASTIC MATERIAL		-
	Ageing:		-
	70 °C – 10 days (240 h) for rubber T	Fest für O-Ringe an Kontakten	Р
	80 °C – 7 days (168 h) for thermoplastic		Р

Page 12 of 19

000\_WALL

IEC 60309-1 & 2

Clause Requirement + Test

Result - Remark

Verdict

No cracks, nor sticky or greasy; no damage P

14	GENERAL CONSTRUCTION		
14.1	Accessible surfaces: no burrs, flashes, sharp edges		Р
	Accessories: 63 A- IP 44 or IP66/IP67 and IP 67	According user manual maximum current is 32 A	N/A
	Accessories 125 A: IP66/IP67 and IP 67	According user manual maximum current is 32 A	N/A
14.2	Screws and fixing means: easily accessible		Р
	Fixing not serve any other purpose		Р
14.3	Position of earthing or neutral contact:		Р
	Not possible for the user alter position		Ν
14.4	Socket-outlets and connectors: ensure IP without plug		N/A
	Plugs or connectors engaged: IP ensured		N/A
14.101	Not possible operate phase inverter unintentionally	No phase inverter in examined part	N/A
	shall incorporate a latching means		N/A

15	CONSTRUCTION OF SOCKET-OUTLETS		-
15.1	Contacts ensure adequate contact pressure (§ 22)	Contact is ensured by locking the charging station into tho wall mounted Housing with the socket outlet.	Ρ
	- Contact tubes: self-adjusting		N/A
	- contact tubes other than earth: floating		N/A
	- earth contact tubes: not floating		N/A
	Gauge: (live pins) (Ø: mm; force: N)		N/A
	(earth pin) (Ø: mm; force: N):		N/A
15.2	Test plug (pins): not remain (Ø: mm; force: N):	The locking system of the enclosures provides high forces which are needed for intended usage.	N/A
15.3	Socket-outlets permit:		-
	- easily introduction into the terminal		Р
	- positioning of conductors		Р
	- easily fixed of covers or enclosures		Р
15.4	Parts providing protection against electric shock:		-
	- securely fixed, no possible remove without tool		Р
	- have adequate mechanical strength		Р

Page 13 of 19

000\_WALL

IEC 60309-1	& 2	
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Clause	Requirement + Test	Result - Remark	Verdict

15.5	Cable entries: allow introduction of conduit:		Р
15.6	Insulating linings: adequate mechanical strength		N/A
15.7	- Socket-outlets: totally enclosed without plug	Socket outlet is enclosed only when the lid is attached.	Р
	- means to ensure IP: securely fixed		N/A
	- lid spring: material corrosion resistant	Lid is removable and not attached to the enclosure.	N/A
	IP 44: drain hole Ø >5mm or 20 mm <sup>2</sup> (mm) :		N/A
15.8	Socket-outlets > 50 V a.c. or 120 V d.c. : provided with earthing contact		Р

20	BREAKING CAPACITY		-
	Accessories without interlock only	Without interlock.	Р
	Test voltage: 1,1 rated operating voltage (V)	253V	Р
	Test current: 1,25 rated current (A: power factor):	40A	Р
	Number of cycles	50	Р
	Plugs and appliance inlets: no tested	50	Р
	No sustained arcing occurs. No damage	This product is not intended to be used to supply inductive loads e.g. a motor with a coil. Therefore a power factor was not used during the testing.	Ρ

21	NORMAL OPERATION	NORMAL OPERATION		
	Rated operating voltage (V)	230 V / 400 V a.c.	Р	
	Rated current (A; power factor)	32A (This product is not intended to be used to supply inductive loads e.g. a motor with a coil. Therefore a power factor was not used during the testing.)	Ρ	
	Number of cycles: with load	1000	Р	
	without load	1000	Р	
	Accessories with interlock: tested without current		N/A	
	No sustained arcing occur		Р	
	- After test, no damage and electric test (§ 19.3) (V)	See appended Table 21	Р	
	- Lid spring: same number of cycles of accessories :		N/A	
	Plugs and appliance inlets:		-	
	Phase inverters are tested without load	No phase inverter in examined part	N/A	
	shall be tested in each position for half cycles		N/A	

Page 14 of 19

#### 000\_WALL

IEC 60309-1 & 2	

Clause	Requirement + Test	Result - Remark	Verdict

wires of the cable not be twisted	No wires, pins are directly connected to electronic board	N/A

22	TEMPERATURE RISE		-
	Test current (A; duration h):	1 h	Р
	Pilot contact 2 A (duration h)	No Pilot contact	N/A
	- Rewirable (cross sect; mm <sup>2</sup> ) : 6 mm <sup>2</sup>		Р
	- Torque (Nm):	6 Nm	Р
	Phase inverter tested in each of the end position	No phase inverter in examined part	N/A
	Temperature rise of terminals: not exceed 50 K :	See appended Table 22	Р

23	FLEXIBLE CABLES AND THEIR CONNECTIONS		-
23.1	- Plugs and connectors: cable anchorage		Р
	Cable anchorage: insulating material or lining:		Р
	- Cable anchorage: cable not touch accessible metal	Not metal parts	N/A
23.2.1	Non-rewirable plugs and connectors:		N/A
	- Cable complying with IEC 60245-4 (Type: IEC 245)		N/A
	Nom. cross sect. (mm <sup>2</sup> )		N/A
	- earthing core: colour green/yellow		N/A
	- pilot conductor: at least 1,5 mm <sup>2</sup> (mm <sup>2</sup> )		N/A
23.2.2	Rewirable plugs and connectors:		-
	- clear how the relief from strain is intended	Description in the installation guide.	Ρ
	- no sharp edges to cable		Р
	- anchorage or components: properly positioned		Р
	- makeshift method: not used		Р
	- suitable for different types of cable:		Р
	Cable inlet with sleeve: insulating material, free	Sealing plug must be fitted before connecting the cable to the backplate of the product. It functions as a Cable inlet.	Р
	Bell-mouthed opening: $\emptyset > 1,5$ times $\emptyset$ cable (mm):	No such opening	N/A
	Helical metal springs: not allowed		Р
23.3	Pull test:		Р
	Type of cable (IEC 60245-4; mm <sup>2</sup> ):	2,5mm <sup>2</sup> ; Due to the rated current of 32A a 2,5mm <sup>2</sup> cable is insufficient.	N/A
	Type of cable (IEC 60245-4; mm <sup>2</sup> ):	6mm <sup>2</sup>	Р

000\_WALL

IEC 60309-1 & 2

Clause	Requirement + Test	Result - Remark	Verdict

Clamping couple (Nm)	1,33 Nm	Р
Pull: 100 times; torque: 1 min (N, torque Nm)	100 N, torque 0,425 Nm	Р
Cable no damage. After test, displacement ≤ 2 mm (mm):		Р

25	SCREWS, CURRENT – CARRYING PARTS AND CONNECTIONS		
25.1	- Connection: withstand mechanical stresses		Р
	- Screws with $\emptyset$ < 3,5 mm: into metal insert:	Screws insert into the metal thread of the terminal.	Р
	- Thread of insulating material	No such screws	N/A
	- Other screws	No such screws	N/A
	- Assembly screws (Ø: mm; torque: Nm):		N/A
	- Cable anchorage (Ø: mm; torque: Nm):	5,0 mm; 2 Nm	Р
	- Terminals (Ø: mm; torque: Nm):	7,8 mm; 7,2 Nm	Р
25.2	Length of engagement: $\geq$ 3 mm + 1/3 or 8 mm (mm):	No such screws	N/A
25.3	Contact pressure: not transmitted through insulating		Р
25.4	Screws and rivets: locked against loosening		N/A
25.5	Current-carrying parts: - copper; or		N/A
	- alloy with 50 % copper; or		N/A
	- material no less suitable:		N/A
25.6	- Contacts subject sliding action: resistant corrosion	No such contacts	N/A
	- springs of contact tubes: resistant to corrosion	No such springs	N/A

26	CREEPAGE DISTANCES, CLEARANCES AND DISTANCES THROUGH SEALING COMPOUND			
26.1	Insulation voltage (V):	400 V		Р
	Creepage distances, between live parts:	required (mm)	observed (mm)	-
	1. different polarity:	4	14	Р
	2. accessible metal parts:	-	-	N/A
	- earthing contacts, fixing screws:	4	33	Р
	- external assembly screws:	4	-	N/A
	Clearances, between live parts:			-
	3. different polarity	4	14	Р
	4. accessible metal parts not listed under it. 5:	-	-	N/A
	- earthing contacts, fixing screws:	4	-	N/A
	- external assembly screws:	4	-	N/A
	5. metal enclosures, if not lined:	-	-	N/A

Page 16 of 19

000\_WALL

IEC 60309-1 & 2

Clause Requirement + Test Result - Remark Verdict				
	Clause	Requirement + Test	Result - Remark	Verdict

	- surface on which the base is mounted:	-	-	N/A
	6. bottom of any conductors recess:	-	-	N/A
	Distance through sealing compound, between live parts covered with at least:		N/A	
	7. 2,5 mm of sealing compound and surface:	-	-	N/A
	8. 2 mm of sealing compound and any conductor :	-	-	N/A
26.2	Sealing compound: not protrude above edge:	No sealing com	pound	N/A

27	RESISTANCE TO HEAT, TO FIRE AND TRACKING		-
27.2	1 h – 100 °C No change impairing further use		Р
	Marking still easily legible		Р
27.3	Ball pressure test according to IEC 60695-10-2		-
	Diameter of impression shall not exceed 2 mm		
	- Parts supporting live parts of rewirable accessories (125 °C; mm):	1,1 mm	Р
	- other parts (80 °C; mm):		N/A
27.4	Glow wire test according to IEC 60695-2-11		-
	- parts not necessary to retain current-carrying parts and earthing circuit in position, even though they are in contact with them (650°C):	Enclosure holding the O-Rings of the pins.	Ρ
	No visible flame, or extinguish within 30 s (s):	No ignition	Р
	- parts necessary to retain current-carrying parts and earthing circuit in position (850°C):	1: Enclosure holding the terminals and U-Tail terminals in their position.	
		2: Terminal lid	Р
	No visible flame, or extinguish within 30 s (s):	1: 5 s	
		2: 10s	Р
27.5	Tracking test according to IEC 60112	CTI: 175-249 V	
		(E210499 UL746 PLC3)	N/A
	Solution a – 175 V – 50 drops		N/A
	- insulating parts supporting live parts		N/A
	No flashover or breakdown		N/A

29	CONDITIONAL SHORT-CIRCUIT CURRENT WITHS	STAND TEST	-
	Min. conditional short-circuit current: 10 kA		Р
	New socket-outlet and mating plug:		Р
	Minimum prospective short-circuit current: 10 kA		Р
	or higher if specified by manufacturer		N/A
	Protective device: "gG" type fuse (Type):	32_gG	Р
	Prospective short-circuit current: > 10 kA (kA):	10078 A	Р

Page 17 of 19

Verdict

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IEC 60309-1 & 2

Clause Requirement + Test

Result - Remark

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During test: - no risk for operator;	Р
- no damage for adjacent equipment;	Р
- no arcing and no flashover between poles;	Р
- no melting of fault detection fuse	Р
After test: - accessories mechanically operable	Р
- no contact welding preventing normal opening	Р
- dielectric test as § 19.3 (19.2.1 b or 19.2.2 b)	Р

### Page 18 of 19

# Report No.:



Clause	Requirement + Test	result – Remark	Verdict
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21	1.1 TABLE: electric strength after endurance			Р
	rated voltage (V):	230V/400V		_
item	test voltage applied between:	test voltage (V)	flash break (Yes	down
a)	all pole and the body (with and/or without plug). :	1500	N	0
b)	each pole and all others:	1500	N	0
c)	any metal enclosure and metal foil	1500	N	0
supplemer	ntary information:			

	TAE	BLE: Temperature rise			Р
Specimo	en	Thermocouple Locations	measured temperature rise (K)	allowed temperature rise	e (K)
		Power input cable	25,6	50	
		Enclosure rear	21,6	50	
		Enclosure front	8,0	50	
		Terminal N	41,3	50	
		Terminal L1	46,5	50	
		Terminal L2	47,6	50	
		Terminal L3	44,0	50	
		Nut N on circuit board	31,2	50	
		Nut L1 on circuit board	33,8	50	
		Nut L2 on circuit board	35,1	50	
		Nut L3 on circuit board	35,1	50	
upplemen	tary i	nformation: measured connec	tions N L1 L2 L3		

### Page 19 of 19

## Report No.:



Clause	Requirement + Test	result – Remark	Verdict
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Specin		BLE: Temperature rise Thermocouple Locations	macourod	allowed	P
Specin	IEII		measured temperature rise (K)	temperature rise	(K)
		Power input cable	21,8	50	
		Enclosure rear	17,4	50	
		Enclosure front	2,8	50	
		Terminal PE	31,8	50	
		Terminal N	34,0	50	
		Terminal L1	35,4	50	
		Terminal L2	31,7	50	
		Nut PE on circuit board	22,4	50	
		Nut N on circuit board	22,6	50	
		Nut L1 on circuit board	24,5	50	
		Nut L2 on circuit board	22,0	50	

	TA	BLE: Temperature rise			Ρ
Specim	en	Thermocouple Locations	measured temperature rise (K)	allowed temperature rise	e (K)
		Power input cable	24,5	50	
		Enclosure rear	20,1	50	
		Enclosure front	3,1	50	
		Terminal N	31,5	50	
		Terminal L1	34,5	50	
		Terminal L2	35,1	50	
		Terminal L3	32,0	50	
		Nut N on circuit board	21,6	50	
		Nut L1 on circuit board	23,8	50	
		Nut L2 on circuit board	25,3	50	
		Nut L3 on circuit board	22,9	50	
Ipplemer	ntary i	nformation: measured connec	tions for NL1L2L3		