



**Test Certificate No.: 9512326007**  
In accordance with Clause 12 of the Standards Law – 1953

**Details of order:**

Name of customer	: TUV Rheinland Italia S.r.l.
Address	: Via Mattei 3 - 20010 - Pogliano Milanese (MI) – Italy
Date of order	: 02/09/2015

**Description of sample:**

Solar Grid Tied Inverter Models	: FRONIUS ECO 25.0-3-S, FRONIUS ECO 27.0-3-S
Manufacturer	: Fronius International GmbH
Country of origin	: Austria
(see additional product information on pages 2-15)	

**Sampling details:**

No sample required.
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**Nature of test:**

Review of the following test reports: Ref. No.: 28108150 001_0, dated 20/08/2015, Ref. No.: 28108151 001, dated 31/07/2015, Ref. No.: 28108163 001, dated 20/08/2015, issued by TUV Rheinland Italia S.r.l. for the above-specified solar inverter models according to the following standards:  IEC 62109-1: 2010 – Safety of power converters for use in photovoltaic power system – Part 1: General requirements IEC 62109-2: 2011 – Safety of power converters for use in photovoltaic power system – Part 2: Particular requirements for inverters AS 4777.2: 2005 - Grid connection of energy systems via inverters: Inverter requirements; AS 4777.3: 2005 - Grid connection of energy systems via inverters: Grid protection requirements
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This document contains 15 pages and may be used only in full.	<b>The test results in this report refer only to the item tested.</b>	This document alone is not sufficient for the release of goods from customs.
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**Test Conclusions:**

Based on the information provided in the above mentioned test reports, the above-specified solar inverter models <b>comply</b> with the Israeli requirements for grid-tied photovoltaic inverters.
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Anatoly Oimatov  
Testing Engineer, Electrical Safety Branch  
Electronics and Telematics Laboratory  
The Standards Institution of Israel

Date: 17/09/2015

Irina Antonov  
Head of Electrical and Medical Safety Branch  
Electronics and Telematics Laboratory  
The Standards Institution of Israel

Date: 17/09/2015

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**ADDITIONAL PRODUCT INFORMATION**

**Electrical ratings:**

Model	Fronius ECO	
	25.0-3-S	27.0-3-S
<b>DC input (PV input port)</b>		
MPP voltage range (V)	580-850	
Max input Voltage (V)	1000 V	
Max input current MPPT	44.2 A	47.7 A
Max Short circuit current of the solar modules	66.3 A	71.6 A
<b>AC output</b>		
Nominal active power (W) @cosφ=1	25000	27000
Nominal active power (W) @cosφ=0.9	22500	24300
Maximum apparent power S <sub>max</sub> (VA)	25000	27000
Nominal grid Voltage (V)	3~NPE 220/230 - 380/400	
Max Grid Voltage (V)	275 / 477	
Rated output current (A)	37.9 - 36.2	40.9 - 39.1
Maximum output current (A)	42	
Nominal Frequency Hz	50 / 60	
Power factor cos phi	1.0 (other such as 0 – 1 inductive / capacitive available in special applications)	
Class of equipment	Class I	
Degree of protection	IP66	
Dimensions h x w x d	725 x 510 x 225 mm	
Weight	36.69 kg	
Permissible ambient temperature	- 25°C to +60°C	
EMC emission	Class B	
Overvoltage category DC / AC	II / III	
DC disconnecter	integrated	



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**APPENDIX 1**  
**Constructional Data Form (CDF)**  
**(12 pages attached)**

**Certificate No.** Various standards **Our Reference** 8740273 **Appendix No.** 1  
(Proj. N.: 8740273)

**Constructional Data Form (CDF) for Electrical Appliances**

License holder : FRONIUS International GmbH  
 Guenter Fronius-Str.1  
 A-4600 Wels-Thalheim

Factory : FRONIUS International GmbH  
 Guenter Fronius-Str.1  
 A-4600 Wels-Thalheim

Type of Appliance : *Utility interactive photovoltaic inverter*

Type Designation : Fronius Eco 25.0-3-S  
 Fronius Eco 27.0-3-S

Rating : see Table A

Protection Class : Class I

Supply connection :  fixed power cord  
 permanent connection  
 appliance inlet  
 direct plug in  
 battery operated

Please tick above box  when applicable

Additional information :  
 Ambient temp 40°C (max. 60°C with power derating)  
 IP66 (same Enclosure like the Fronius Symo 20.0-3)

Table A:						
Model	Input Voltage	Rated Output Voltage (V)	Rated Output Current(A)	Maximum apparent power (VA):	Nominal active power (W) @ cosφ 0,9	Maximum cosφ
Fronius Eco 25.0-3-S	580-850 Vdc (max.1000Vdc open circuit)	220/380 230/400	37.9 36.2	25000	22500	1.0
Fronius Eco 27.0-3-S	580-850 Vdc (max.1000Vdc open circuit)	220/380 230/400	40.9 39.1	27000	24300	1.0

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**Date**

**Name**

**Signature**

**Constructional Data Form (CDF) for Electrical Appliances**

**Critical Components**

Material: e.g. external enclosure, PCB, closed-end connector, sleeves, cord anchorage etc

Components with winding: e.g. motor, transformer, magnetic coil etc.

Other components: e.g. switch, thermostat, heater, plug, internal wire, capacitor, relay, varistor etc.

Object/part No.	Manufacturer/ trademark	Type/ model	Technical data	Standard	Mark(s) of conformity
List of critical components: Unit					
Internal fan / 43,0006,0312	NMB - Minebea	06025SA-12N-ET-D1	12V, -25°C...+70°C	UL File No. E89936 VDE File No. 1507300	cULus VDE CE
External fan / 43,0006,0313	NMB - Minebea	08038RA-12P-GA-01	12V, -12°C...+70°C	UL File No. E89936 VDE File No. 1507300	cULus VDE CE
DC Switch / 43,0002,0499	Benedict	DC Tren 55A 4pol+AC 6 pol ROW&USA 3P27LS55-E-7898	-40°C...+75°C, 1500V, 85A	UL508 (E332938) UL508I (E359344) IEC60947-3 VDE 0660-107	cULus
SNT- Transformer Fronius Eco / 33,0005,0525	Fronius	SNT Trafo Symo	Insulation class B, 600µH – 720µH	EN 61588-1	-- (Tested in application)
Inductance body / 42,0300,2802	Epcos	B66362-X1014-T001	Max. operating Temp. 180°C	UL file No. E45329 UL file No. E41938	-
core / 41,0012,0078	Epcos	B66361-G-X187	Max. operating Temp. 180°C	UL file No. E45329 UL file No. E41938	-
	Ferroxcube	ETD34-17-11-3C94	-	-	-

**Constructional Data Form (CDF) for Electrical Appliances**

core / 41,0012,0104	Epcos	B66361-G500-X187	-	UL file No. E45329 UL file No. E69578	-
	Ferroxcube	ETD34-17-11-3C94-G500	-	-	-
Bow / 42,0300,2614	Epcos	B66362-A2000	Insulation class F, max operating temperature 155°C	IEC 60085	-
	Ferroxcube	CLI-ETD34	-	-	-
CU-enameled wire / 40,0003,0224	Essex	Magnesol UN-180	Excellent solderability at 410°C,	IEC 60317-51 NEMA MW82	-
	Helenik	Enoflex-180-0,45mm	7000V, solderability 390°C	IEC 60317-51 NEMA MW82	-
Fine wires / 40,0003,0428	Pack Feindrähte	Rupatex-B-0,50	Class B	IEC 60950 UL file No. E257248	-
Foil polyester / 40,0004,1262	Du Pont	Mylar A-0,127x21mm	-100°F...+300°F	-	-
Insulating tape / 40,0005,0169	Bond Tec	371F-6mm-gelb	130°C/266°F, 5000 and 4500V, insulation class B	-	-
	CMC	CMC10966-6mm-gelb	Isolation class B acc. VDE 0530, maximum temp. 130°C	UL file No. E93622	-
Insulating tape / 40,0005,0166	Bond Tec	1F-19mm-gelb	130°C/266°F, 5000 and 4500V, insulation class B	-	-
	CMC	CMC-10966-19mm-gelb	Isolation class B acc. VDE 0530, maximum temp. 130°C	UL file No. E93622	-
Silicon rubber hose / 40,0001,0285	Tepro GmbH	Silikon-1x0,25mm	Temperature class H, insulation class B, resistance to heat 200°C	-	-
DC – SNT Transformer Fronius Eco / 33,0005,0532	Fronius	DC SNT-Trafo Duofil	Insulation class B, 430µH – 520µH	EN 61588-1	-- (Tested in application)
Inductance body / 42,0300,2802	Epcos	B66362-X1014-T001	Max. operating Temp. 180°C	UL file No. E45329 UL file No. E41938	-
CU-enameled wire / 40,0003,0220	Hellenic	Enoflex-180-0,25mm	Solderability 390°C, Breakdown voltage 7000V	IEC 60317-51 NEMA MW 82-C	-
	Essex	Magnesol UN-180	Excellent solderability at 410°C,	IEC 60317-51 NEMA MW82	-
Foil polyester / 40,0004,1262	Du Pont	Mylar A-0,127x21mm	-100°F...+300°F	-	-

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Insulating tape / 40,0005,0173	Bond Tec	371F-15mm-gelb	130°C/266°F, 5000 and 4500V, insulation class B	-	-
	CHANGSHU FUBANG ADHESIVE TAPE LTD CO	PESKB15G- 15mm-gelb	Breakdown voltage >= 4500V, insulation class B (>130°C)	-	-
	CMC	Polyesterklebeban d-10966-15mm- gelb	Max. temperature 130°C, Isolation class B acc. VDE 0530, Breakdown voltage 5000V	UL file No. E93622	-
Insulating tape / 40,0005,0166	Bond Tec	1F-19mm-gelb	130°C/266°F, 5000 and 4500V, insulation class B	-	-
	CMC	CMC-10966- 19mm-gelb	Isolation class B acc. VDE 0530, maximum temp. 130°C	UL file No. E93622	-
Polyester tape / 40,0005,0189	CMC	CMC16701-4mm	Isolation class B acc. VDE 0530, maximum temp. 130°C	UL file No. E93622	-
core / 41,0012,0104	Epcos	B66361-G500- X187	-	UL file No. E45329 UL file No. E69578	-
	Ferroxcube	ETD34-17-11- 3C94-G500	-	-	-
core / 41,0012,0078	Epcos	B66361-G-X187	Max. operating Temp. 180°C	UL file No. E45329 UL file No. E41938	-
	Ferroxcube	ETD34-17-11- 3C94	-	-	-
Bow / 42,0300,2614	Epcos	B66362-A2000	Insulation class F, max operating temperature 155°C	IEC 60085	-
	Ferroxcube	CLI-ETD34	-	-	-
Insulating tape / 40,0005,0169	Bond Tec	371F-6mm-gelb	130°C/266°F, 5000 and 4500V, insulation class B	-	-
	CMC	CMC10966-6mm- gelb	Isolation class B acc. VDE 0530, maximum temp. 130°C	UL file No. E93622	-
AC inductor Fronius Eco / 33,0010,0463	Fronius	AC inductor Fronius Eco	Insulation class F, 480µH – 580µH	EN 61588-1	-- (Tested in application)
core / 41,0012,0100	METGLAS	AMCC50-N	-	-	-
Strap / 42,0407,0643	Panduit	MLT4S	-80°C...+538°C	-	-
Inductance body / 42,0405,2084	PTM	Crastin-SK645FR NC010	Flamability class V0	-	-
Air gap plate /	Katzengruber	Crastin-SK645FR	Flamability class V0	-	-

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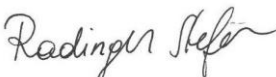
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42,0405,1154		NC010			
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31.08.2015

Radinger Stefan



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**Date**

**Name**

**Signature**



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Polyester tape / 40,0005,0216	CMC	61100-19mm- farblos	Isolation class F, breakdown voltage 5500V	UL file No. E93622	-
	Synflex	SYNTAPE- FK.30AC-19mm- farblos	Breakdown voltage 4800V	UL file No. E178430	-
Insulating tape / 40,0004,3066	Adheasive Formteile	Teonex-Q51- 66,5x0,038mm	-	-	-
	Isotek GmbH	Teonex Q51- 66,5x0,038mm	Temperature class F, Isolation class F, breakdown voltage 250kV/mm	UL file No. E206562	-
	Synflex	Teonex Q51- 66,5x0,038mm	Temperature class F, Isolation class F, breakdown voltage 250kV/mm	UL file No. E206562	-
Insulating tape / 40,0004,3065	Adheasive Formteile	Teonex-Q51- 30x0,125mm	-	-	-
	Isotek GmbH	Teonex-Q51- 30x0,125mm	Temperature class F, Isolation class F, breakdown voltage 250kV/mm	UL file No. E206562	-
	Synflex	Teonex-Q51- 30x0,125mm	Temperature class F, Isolation class F, breakdown voltage 250kV/mm	UL file No. E206562	-
CU-tape / 40,0004,1535	MKM	Cu-ETP- 63x0,32mm-R200- EN13599	-	-	-

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List of critical components: ECOAC27 V0.3A (4,071,540)					
KONFOL 0.015 300 15 S 20 P (C3,C78, C79,C80,C81,C1 42,C172,C175,C 178,C179) / 41,0005,0267	KEMET - Arcotronics	R41-15n-300V-15	-40°C ... +110°C, 300Vac, class Y2	IEC60384-14 UL1414 (UL File No. E97797)	CSA UL ENEC CQC
	KEMET – Evox Riva	PH850-15n-300V- 15	-55°C ... +110°C, 300Vac, Class Y2	EN132400 UL1283 (UL File No. E100117)	ENEC UL CSA
Relay (K1,K2) / 43,0008,0199	Zettler	AZSR235/250	-40°C...+85°C, 50A, 5000Vrms	EN60730-1 EN60335-1 UL file No. (E44211) VDE 40033251	UL VDE
Relay (K3,K4) / 43,0008,0190	HongFa Relais	HFD3-V12	-40°C...85°C, 250Vac, 2A, 12Vdc	UL file No. (E133481) VDE file No. (40018867)	UL VDE
IGBT Module / 41,0003,0358	Infineon	F3L100R07W2E3 _B11	-40°C...+150°C	UL file No. (E83335)	UL
Current sensor (U2,U15,U22,U2 3,U24) / 43,0001,3425	LEM	CKSR50-NP	-40°C...+105°C, Isolation: 4300V, flammability V0	UL508 EN 50178 IEC 61010-1- safety	UL
Capacitor (C23,C25,C56,C 57,C60,C61,C69, C83,C85,C86) / 41,0005,0391	Rubycon	VXG-470u-450V- M-FRL-SN-10- 35x55_105°C	-25°C...+105°C,	-	-
Length inductor (L44,L45,L46) / 43,0010,0410	Sumida AG	57306059-00	-40°C...+115°C, 630nH, 42A	-	-
Circuit board ECOAC27 / 41,0071,0540	RUWEL	Circuit board	Material: FR4, fire protection class: V0	-	-
List of critical components: ECOFIL27 V0.3A (4,071,541)					
KONKER (C67,C68,C186, C197,C249,C250 ,C251,C252,C26 4,C265,C266,C2	Murata	KX-DE1E3-3n3- 250V-10	-25°C...+85°C, 250Vac, Class X1/Y1	UL & CSA 60384-14 (E37921) IEC 60384-14 (VDE file No. 40006273)	UL CSA VDE CQC

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87) / 41,0005,0364				AS 3250	
KONFOL (C210) / 41,0005,0267	KEMET - Arcotronics	R41-15n-300V-15	-40°C ... +110°C, 300Vac, class Y2	IEC60384-14 UL1414 (UL File No. E97797)	CSA UL ENEC CQC
	ET - Evox Rifa	PHE850-15n- 300V-15	-55°C ... +110°C, 300Vac, Class Y2	EN132400 UL1283 (UL File No. E100117)	ENEC UL CSA
KONFOL (C59,C62) / 41,0005,0091	HJC	Y1X1-4n7-300V- 10	-40°C...+110°C, 300-310VAC, Class Y2/X1	IEC60384-14 UL1283 ( UL File No. E221690) GB/T14472- 1998	UL CUL ENEC -> VDE CB CQC
	KEMET - Arcotronics	R41-4n7-300V-10	-40°C...+110°C, 300-310VAC, Class Y2/X1	IEC 60384-14 EN 60384-14 UL1414 (UL file No. E97797) UL1283 (UL file No. E85238) GB IT 14472	ENEC cULus CQC
	KEMET – Evox Rifa	PME271Y-4n7- 250V-10	-40°C...+100°C, 250Vac, Class Y2	IEC 60384-14 UL1283 (UL file No. E100117)	ENEC cULus CQC

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KONFOL (C14,C15,C16,C17,C18,C19,C29,C30,C32,C65) / 41,0005,0384	KEMET	F861-3u3-310V-27,5	-40°C...+110°C, 310Vac, Class X2	IEC 60384-14 UL 60384-14 GB/T 14472	ENEC UL cUL CQC (pending)
	TDK	B32924D-3u3-305V-27,5	+110°C, 305Vac, Class X2	IEC 60384-14 UL 60384-14 (UL file No. E97863) GB/T14472-1998	ENEC cULus CQC
	HJC	MKP-3u3-305V-27,5	-40°C...+110°C, 305Vac, Class X2	UL 1414 (UL file No. E149075) UL 1283 (UL file No. E221690) IEC 60384-14 GB/T14472-1998	cULus ENEC CB CQC
KONFOL (C205,C240) / 41,0005,0282	KEMET - Evox Rifa	PME271Y-1n-250V-10	1nF, 250V, -40°C... 110°C, Isolation: 3000Vdc, class Y2	UL-File No. E100117 C 22.2 No. 8 EN 132400	UL CSA VDE
	KEMET – Arcotronics	R41-1n-250V-10 _ C83	1nF, 250V, -40°C... 110°C, Isolation: 5000Vdc, class Y2	UL-File No. E97797 IEC 60384-14:1993+ A1:1995 IEC 60065	UL CSA ENEC (VDE,ÖVE) CQC
	HJC	Y2X1-1nF-300V-10	1nF, 300V, -40°C... 110°C, Isolation: 2250Vdc, class Y2	UL-File No. E221690 EN60384-14:2005	UL CSA ENEC (VDE,ÖVE) CQC
	KEMET - Evox Rifa	PHE850EA-1n-300V-10	1nF, 300V, -55°C... 110°C, Isolation: 5000Vdc, class Y2	UL-File No. E100117 C 22.2 No. 8 EN 132400	UL CSA ENEC (VDE,ÖVE)
Surge arrester (R78,R412) / 41,0001,0695	Epcos	A71-H14X	-40°C ... +90°C, 1400V	UL File No. E319264	UL
	Citel GmbH	BHS1400	-40°C ... +90°C, 1400V	UL 497B (UL File No. E326289) DIN EN 61643-311 VDE 0845	UL VDE

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KONKER (C152,C157) / 41,0005,0326	Murata	KX-DE1E3-2n2- 250V-10	-25°C...+85°C, 250Vac, Class X1/Y1, Isolation: 4000Vac	UL1414 (UL File No. E37921) EN132400	UL VDE
	Murata	KX-DE1E33-2n2- 300V-10- halogenfree	-25°C...+85°C, 250-300Vac, Class X1/Y1, Isolation: 2000Vac	UL60384-14 (UL file No. E37921) IEC 60384-14 (VDE file No. 40006273) AS3250 GB/T14472	UL CSA VDE CQC
KONKER (C260,C261) / 41,0005,0299	Murata	KX-DE1E3-1n- 250V-10	-25°C...+85°C, 250Vac, Class X1/Y1, Isolation: 2000Vac	UL60384-14 (UL file No. E37921) IEC 60384-14 (VDE file No. 40006273) AS3250 GB/T14472	UL CSA VDE CQC
WIDVAR (R76,R279,R287 ,R288,R411) / 41,0001,0641	TDK	SIOV-S20K510-E2	-40°C...+85°C, 510Vac	-	UL CSA VDE CECC
	Würth Elektronik	820 425 111	-40°C...+85°C, 510Vac	UL file No. E332875 CSA No. 224856 VDE file No. 40016998 & 40016986	UL CSA VDE
Filter inductance (L2) / 43,0010,0341	VAC	T60405-S6122- X350	-40°C...+130°C, insulation class B	UL 1446 (UL file No. E329745)	UL
Filter inductance (L26) / 43,0010,0324	VAC	T60405-S6122- X442	-40°C...+130°C, insulation class B	UL 1446 (UL file No. 329745)	UL
Relay (K1,K2) / 43,0008,0199	Zettler	AZSR235/250	-40...+85°C, 50A, 250Vac, Isolation: 5000Vrms	UL file No. E44211 VDE file No. 40033251	UL cUL VDE
Optocoupler (U9,U12,U13,U1 4,U23) / 91,0014,0018	Fairchild	FOD817D3SD	Isolation 5000Vrms, -55°C ... +110°C	UL-File No. E90700	cUL UL VDE

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**Constructional Data Form (CDF) for Electrical Appliances**

IC (U3, U33) / 91,0013,0442	Silicon Laboratories Inc	Si8642ED-B- YS0R	Isolation 5000Vrms, -40°C ... +125°C	UL 1577 IEC60747-5-2 EN60950-1 GB4943.1	UL VDE CQC CSA
	Silicon Laboratories Inc	Si8642ED-B-IS	Isolation 5000Vrms, -40°C ... +125°C	UL1577 (UL- File No. E257455) IEC60747-5-2 EN60950-1	VDE CQC UL CSA
Circuit board ECOFIL27 / 41,0071,0541	RUWEL	Circuit board ECOFIL27	Material: FR4, fire protection class: V0	-	-
List of critical components: PWB RECERBO V1.2 (4,071,344)					
Relay (K1) / 43,0008,0038	Panasonic Electric Works	JW2-SN-DC12V- UL/CSAT	5A, 250V, -40°C...85°C, Isolation: 7071Vdc	VDE Reg.- Nr. 3586	VDE UL/CSA
	Song Chuan	8882CHFS012	8A, 240V, -40°C...70°C, Isolation: 7071Vdc	VDE File.- Nr. 40006746 UL/CUL File No. E88991	VDE UL/CUL

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List of critical components: ECOFUSE V0.5A (4,071,544)					
Fuse Holder / 41,0007,0201	Eaton	1A3400-09	-	-	-
Fuse Holder plastic / 42,0405,0619	PTM Kunststofftechnologie	Durethan-B30S	-	UI File No. E245249	cULus
	PTM Kunststofftechnologie	Frianyl-B63-V0-9005	-	-	
	PTM Kunststofftechnologie	Ultramid-C3U	-	-	
Fuse / 41,0007,0230	Eaton (Bussmann)	PV-15A10F	1000Vdc, 1A to 20A (UL listed 1-15A)	IEC 60269-6 UL 2579 UL file No. E335324)	CCC UL
	Littlefuse	SPF015	1000Vdc, 1A to 30A	UL file No. E10480	UL
	SIBA	PV Sicherung 5021526.15	1000Vdc, 1A to 20A	IEC 60269-6 UL 248-13 (UL file No. E180276)	cULus IEC
Bolt / 42,0001,3733	Lanza KG	CuZn39Pb3-10x38mm	Can be used as Option instead the fuses	-	-
	Schmit Peter GmbH	CuZn39Pb3-10x38mm	Can be used as Option instead the fuses	-	-
Circuit board / 41,0071,0544	RUWELL	-	Material: FR4, fire protection class: V0	-	-