添付資料

FSS-201406

CEマーキング入門解説

~No.3 設計から技術文書作成まで 〜

株式会社フジセーフティ・サポート

SAMPLE PRODUCT for CE Marking

(1) ID & Rating label

FSS CORPORATION
SAFETY PRODUCT
MODEL: FSS2014-C
POWER: AC100-240V, 50/60Hz, 500VA
IN DOOR USE ONLY
SERIAL No. 20140702
Made in Japan

(2)Specifications

Power Source	Input Rating: AC100-240V, 50/60Hz, 500VA Electrical Protection: Class Ⅰ
Power Supply Cords	- For AC100-120V area UL Listed, detachable power cord set, 3-conductor grounding Type SVT, No. 18 AWG, 3 m long maximum, rated at AC125V minimum. - For AC220-240V area Approved according to EU/EN standards, 3-conductor grounding Type H05VV-F, 3 m long maximum, rated at AC250V minimum.
Operating Environment	Temperature: 0 - 40℃, Humidity: 85%RH Max (Non-condensing) Altitude: 2000m Max Pollution: Degree 2 Installation: Category Ⅱ
Dimensions	346(W) x 330(D) x 113(H) mm
Weight	7.5kg
Conforming Standards	CE Marking Low Voltage Directive: 2014/35/EU EN 61010-1 EMC Directive: 2014/30/EU EN 61326-1

(3)Technical Construction

All enclosures are made of metal, and electrical parts are installed in the upper and lower enclosures covered with screws. Main electrical parts of the primary circuit are approved and wirings are segregated between primary and secondary.

The instrument is designed as an apparatus consisted of electrical parts, sub-assemblies and mechanical parts to meet safety and EMC requirements according to the EC directives with CE Marking. Major electrical parts including sub-assembled units were chosen in consideration of EU/UL approved or CE marking parts.

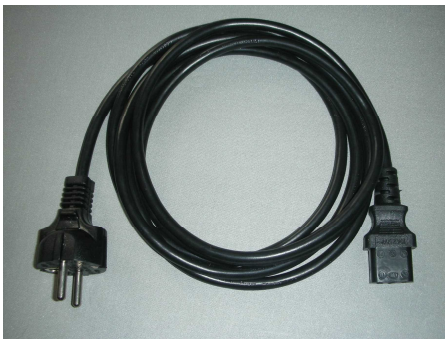
The FSS2014-C employs a detachable power supply cord (EU approved) depending on supply voltage such as AC230V. And all critical parts such as AC inlet, power SW, and switching power supply unit are approved. Regarding the electrical parts for safety, please refer to the attached CDF (Construction Data Form).

(4)Configuration

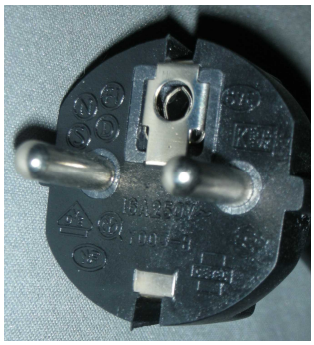
※耐電圧試験器(FSS所有)

(5)Power Supply Cord

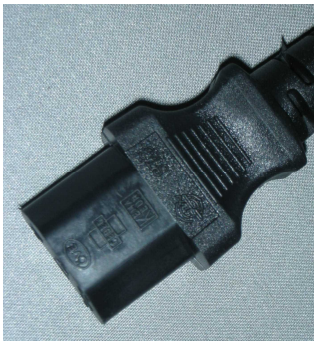
The attached detachable power supply cord set should be used. The approved power cord described in the CDF (Construction Data Form) will be shipped from the manufacturer with the apparatus. Regarding connection of power source and specification, they are instructed in the instruction manual.



Power Supply Cable



Plug



Connector

(6) Electrical Block Diagram

The electric block diagram of the apparatus shows entire system of the control including the power supply. *See P8.

(7) Electrical Components (CDF)

Electric components relating to safety and their specifications are described in the CDF (Construction Data Form). *See P9 - P12.

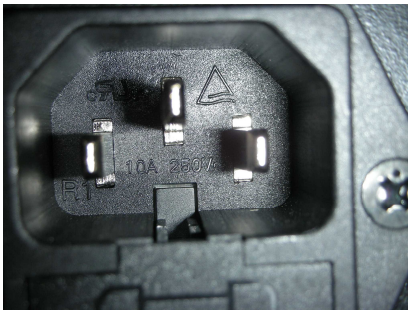
(8) Risk Assessment

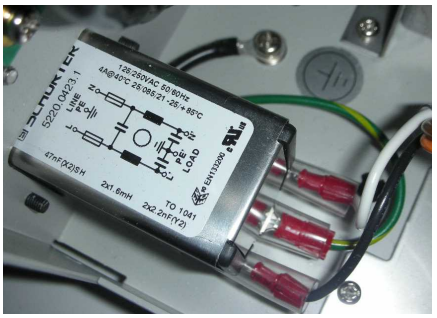
Risk analysis was performed in design phase to reduce various possible risks and implemented risk assessment for safety. *See P 13.

(9) Constructions (Safety Protection)

Regarding risk analysis under consideration of hazards about the product, there are risks of electric shock and fire. In order to prevent hazardous events, the following matters were taken into consideration in the design stage.

1. Employing approved parts and power supply cord in primary circuit.
   Refer to the CDF.
   *Remark: The approved switching power supply unit has a fuse to protect circuits from electrical malfunctions.
2. Enclosing electrical parts by metal enclosure not to spread of fire and not to allow aggression of a foreign matter except ventilation openings.
3. When current exceeds the specified limit, the device shuts off output immediately and automatically.
4. …..





(10) Labels (WARNING/CAUTION)

The labels for safety are affixed on the specified location of the instrument.
*See Instruction Manual.

(11) Unser Manual (Instruction Manual)

1. Safety Precautions

The instruction manual is provided for user with product. Safety relevant contents are described in the first item of “For your Safety” to meet requirements of the applicable standard.

Please see the attached Instruction Manual relating the following items.

1. Safety Indications
2. Meaning of Warning symbols and Labels
3. General Precautions
4. Precautions on electric shock
5. If a Problem Occurs
6. Protective Grounding
7. Power Cable
8. Precautions in Measurement
9. Cleaning

Sample

■ Safety Indications

This manual describes possible danger or risks of the product or those you may encounter if relevant direction is ignored, and measures for avoiding such danger or risk.

A warning label is stuck on or near portions of the product with possible danger or risk.

In this manual, two terms WARNING and CAUTION are used depending on the degree of danger or risk possible. Each term has the following meaning.

⚠ WARNING	Failure to follow the instruction can lead to death or serious injury.
⚠ CAUTION	Failure to follow the instruction can lead to burn or other injury or property damage.

Precautions and notices for danger are given by three different symbols: Attention, Prohibition, and Mandatory. Each symbol has the following meaning.

Symbol	Definition	Meaning	Example
△	Attention	Indicates that failure to follow the instruction could lead to a risk of danger. The drawing in the symbol indicates the type of danger involved.	
⃠	Prohibition	Indicates actions that must not be taken. The drawing in or near the symbol indicates the action that is prohibited.	
●	Mandatory	Indicates an action that is mandatory. The drawing in the symbol indicates the action that you must do to avoid the danger.	

■ Meaning of Warning Symbols and Labels

• Attention

	Indicates a risk of electric shock.
	Indicates a risk of injury.
	Indicates a risk of smoking or ignition.
	Indicates a general precaution or warning.

(12) Safety Test plan

Test plan for the safety test was made in advance. Practical testing was performed according to the following table and reported to meet requirements of standard.

■新規　□変更

テストプラン **Test Plans**

※■該当　□非該当

■安全･EMC試験･評価

1. 安全評価　Safety Evaluation

■ IEC/EN 61010-1:　□IEC/EN 60204-1

	試験項目 Test Items	内容 Contents	類似実績ﾃﾞｰﾀ	規格項目Standards Items *61010-1	*60204-1	
電気	■ｲﾝﾌﾟｯﾄ試験 Power Input Test	(AC100-240V)±10%	□	5.1.3-c)	*A.3	
	■漏れ電流試験 Earth Leakage Test	接地電流(PE), 接触電流 *筐体ｱｰｽ	□	6.3.2	*A.6/..8	
	■温度上昇試験 Heating Test	Continuous with ON*Temp. peak OFF	□	10.	*A.20A/B	
	■残留電圧試験 Residual Voltage Test	Less than 60V after 1 sec. PW OFF	□	6.8	*A14	19.5
	■保護ｱｰｽ導通試験 Earth Continuity Test	AC Inlet (GND) ⇔ PE	□	6.5.3	*A12	19.2
	■保護ﾎﾞﾝﾃﾞｨﾝｸﾞｲﾝﾋﾟｰﾀﾞﾝｽ試験 Continuity of Protective Bonding Circuit	PE ⇔ GND(PCB)/Enclosure *Bonding points	□	6.5.1.3 6.5.1.5	*A.10 *A.11	19.2
	■耐電圧試験 Electric Strength Test	L/N⇔GND(PE), Pri ⇔Sec	□	6.8	*A.5/.14	19.4
	■温度試験 Temperature Test		□	10.4	-	
	□絶縁抵抗試験 Insulation Resistance Test		□	-	-	19.3
メカ	■ｴﾝｸﾛｰｼﾞｬｰ剛性試験 Enclosure rigidity	構造確認、図面を含めて判断	□	8..1	*A.23	
	□高圧危険試験 High Pressure Leakage		□	11.7.2	*A.24	
	□電源ｺｰﾄﾞ物理試験 Cord Physical Test		□	6.10.2	*A15	
	□騒音試験 Sound Pressure Test	*明らかに騒音なし	□	12.5.1	*A.26	
	■安定性試験 Stability Test	使用状態での安定性の試験	□	7.3	-	
	□落下試験 Drop Test		□	8.2	-	
	□吊上げ及び横持ち試験 lifting & Carrying		□	7.4	-	
	□壁取付け試験 Wall Mounting		□	7.5		
	■表示耐久性試験 Marking Durability	本体表示のシルク、ラベル耐性試験	□	5.3	*A.4	
放射線	□ﾚｰｻﾞﾊﾟﾜｰ測定 Laser Power Test		□	12.6	-	
	□紫外線ﾊﾟﾜｰ測定 UV Power Test		□	12.3	-	
	□放射線測定 X-ray Radiation Test		□	12.2.1	*A25	
その他	□ｲﾝﾀｰﾛｯｸ機能試験 Interlock Function Test		□	15.	-	19.6
	■単一故障条件試験 Single Fault Test	ﾒｰｶｰのﾃﾞｰﾀ提出による(ｱﾌﾞﾉｰﾏﾙﾃｽﾄ)	□	4.4	*A.1/.2	
	□ﾊﾞｯﾃﾘｰ Battery Test		□	13.2.2	*A.27	
	■保護機能、保護対策	ﾒｰｶｰのﾃﾞｰﾀ提出による	□			

※備考 Remarks:規格要求とテスト Requirements + Test (IEC61010-1:2001)　*上記の類似実績ﾃﾞｰﾀ有りは下記Form非該当とする。

Clause	Form No.: TABEL	Clause	Form No.: TABLE (実績ﾃﾞｰﾀで適合性評価→技術文書TD)
4.4.2	*■A.1: Summary of single fault conditions	9.3	■A.18: Limited-energy circuit
4.4	*■A.2: Testing in single fault condition – Results	9.4	□A.19: Requirements for equipment containing or using flammable liquids
5.1.3c)	*■A.3: Mains supply		
5.3	*■A.4: Durability of markings	10.	*■A.20A: Temperature Measurements
6.	*■A.5: Protection against electric shock - Block diagram of system	10.2	*□A.20B: Temperature of windings Resistance method Temperature Measurements
6.2	*■A.6: List of accessible parts	10.5.2	□A.21: Resistance to heat of non-metallic enclosure
6.	■A.7: Values in normal condition	10.5.3	□A.22: Insulating Materials
6.3.2	*■A.8: Values in single fault condition	8. /11.	*■A.23: Mechanical resistance to shock and impact
6.5.1.1	■A.9: Cross-sectional area of bonding conductors	11.7.2	*□A.24: Leakage and rupture at high pressure
6.5.1.3	*■A.10:Bonding impedance of plug connected equipment	12.2.1	*□A.25: Ionizing radiation
6.5.1.5	*■A.11:Indirect bonding for measuring & test equipment	12.5.1	*□A.26: Sound level
6.5.3	*■A.12: Protective impedance	13.2.2	*□A.27: Batteries
6.7	■A.13: Clearances and creepage distances	14.3	□A.28: Over-temperature protection devices
6.8	*■A.14: Dielectric strength tests	4.4.2.6	■A.29: Mains transformer (Short circuit)
6.10.2	*□A.15: Cord anchorage	4.4.2.6	■A.30: Mains transformer (Overload tests)
9.	□A.16: Protection against the spread of fire	16.1	□A.31: Current measuring circuits
9.2.1	□A.17: Constructional requirements	16.2	□A.32: Multifunctional meters and similar equipment

備考 Remarks:

(13) Summary of Safety Evaluation

Safety evaluation for the model was carried out according to the standard IEC/EN 61010-1: 2001 with IEC 61010-1:2010 (3rd Edition).

As a result, the product had satisfied all safety requirements of the applicable standard.

*IEC/EN 61010-1:2010 Safety requirements for electrical equipment for measurement, control, and laboratory use Part 1: General requirements

The followings are summary of product safety evaluation for CE Marking.

1. AC power cables are wired by using approved cable for the power lines.
2. Electrical system in primary circuits employs approved parts such as TUV/UL/CSA or CE declaration parts and all parts were reviewed and reported in the CDF.
3. Protective Earth is mounted on the main primary circuit with protective bonding earth. (PE is wired to AC inlet with an approved appliance.)
4. The enclosures of the power units and control circuits are made of metal and securely covered with screws so that only service person is allowed to access to the inside of enclosure.
5. Regarding transformers employed by the instrument, they were evaluated in the phase of safety evaluation respectively.

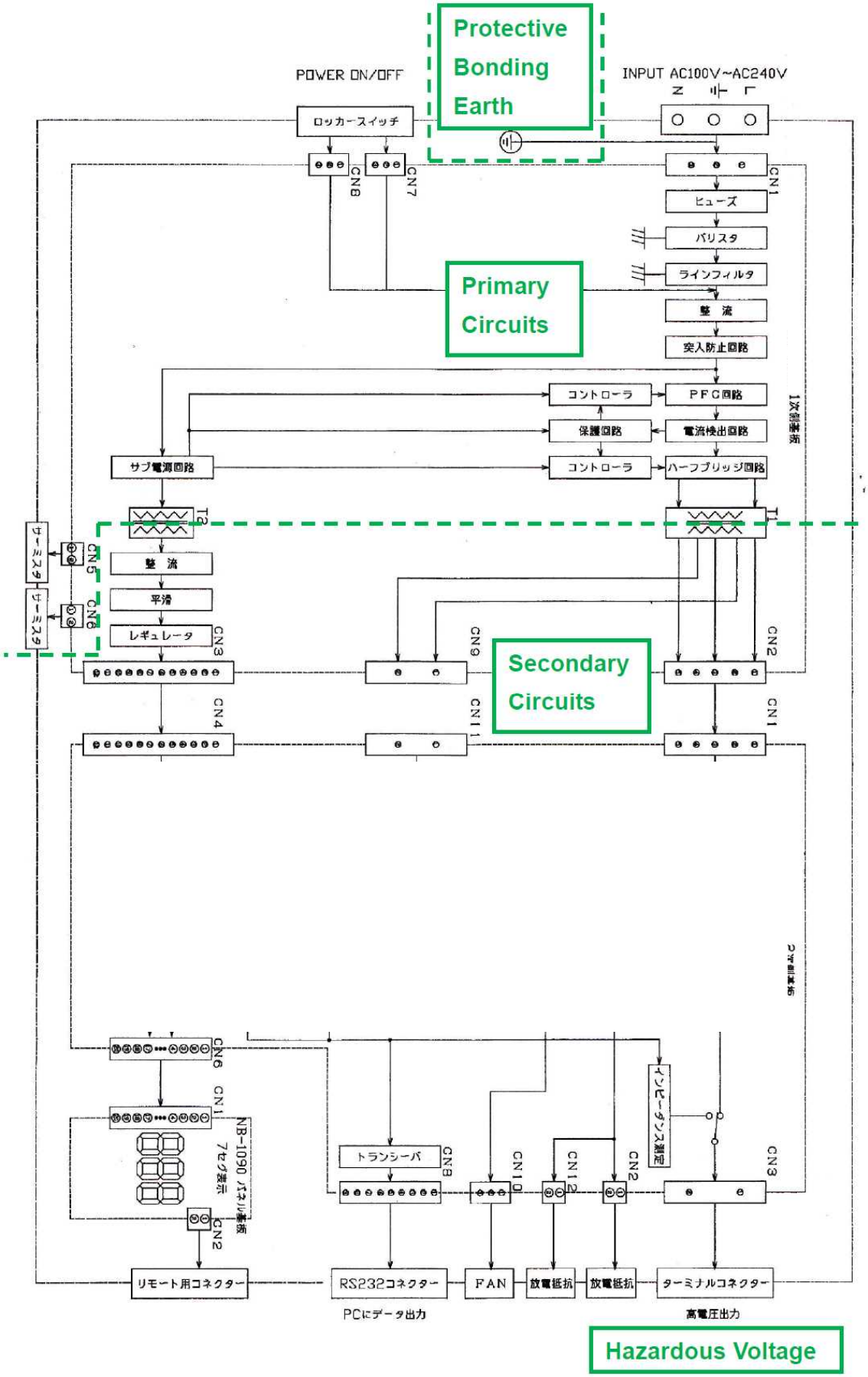
■Summary of testing: *Test Report No. *****

The test methods and results of the above tests have been reviewed and found to be in accordance with the requirements in the standard.

Clause No.	Test Item	Results
4.4	Single fault condition tests	Pass
5.1.3c)	Mains supply (Input test)	Pass
5.3	Durability of markings	Pass
6.2	Determination of accessible parts	Pass
6.3.1	Values in normal condition	Pass
6.3.2	Values in single fault condition	Pass
6.5.1.1	Cross-sectional area of bonding conductor	Pass
6.5.1.2	Tightening torque test	Pass
6.5.1.3	Bonding impedance of plug connected equipment	Pass
6.7	Clearances and creepage distances	Pass
6.8	Dielectric strength tests	Pass
6.8.2	Humidity preconditioning	Pass
8	Mechanical resistance to shock and impact	Pass
9	Protection against the spread of fire	Pass
10.1-10.4.1	Temperature measurements	Pass

SAMPLE

Electrical Block Diagram



SAMPLE

IEC 61010-1			
Product	SAFETY PRODUCT, FSS2014-C	Result –Remark	Rev.0

	TABLE: 3 - List of components and circuits relied on for safety				
Unique component reference or location	Application/Function	Manufacturer (NOTE 1)	Type / model	Technical data (NOTE 2)	Evidence of acceptance (NOTE 3)
Detachable Power Supply Cord Set for Europe area	--	Various	3 conductor grounding type H05VV-F	3m long max., 250Vac min.	Approved according to EU/EN standards
Detachble Power Supply Cord Set for North America and Canada	--	Various	3 conductor grounding Type SVT, No. 18 AWG	3m long max., 125Vac min.	UL Listed detachable power cord
Detachble Power Supply Cord Set for Japan-domestic	--	*****	Cord: F Plug: C33 Connector: YC-13	Cord: 300V, Plug: 125Vac, 7A, Connector: 125Vac, 7A <PS>E	JET
Appliance Inlet	--	*****	ACP01CF01	250Vac, 15A EN 60320-1, +A1, UL 498, CSA C22.2 No. 182.3	VDE: Nr. ****** UL: E ***** CSA: LR*****
Protective Earth Wire	--	Various	Various	Green/Yellow insulated wire, 600V, 2.08mm^2 (AWG14), VW-1, 105°C UL 758, CSA *****	UL, CSA
Screw of Protective Earth Conductor	--	--	--	M4 Screw with spring washer	--

IEC 61010-1			
Product	SAFETY PRODUCT, FSS2014-C	Result - Remark	Rev.0

Unique component reference or location	Application/Function	Manufacturer (NOTE 1)	Type / model	Technical data (NOTE 2)	Evidence of acceptance (NOTE3)
Primary Internal Wires (between Appliance Inlet and CN*)	--	Various	Various	600V, 2.08mm^2 (AWG14), VW-1, 105°C UL 758, CSA *****	UL, CSA
Power Switch	--	*****	*****	250Vac, 16A EN 61058-1, UL 1054	VDE: Nr. ***** UL/cUL: E *****
Insulation Tube of Primary Wires (between Power Switch and CN*, CN*)	--	Various	Various	1 layer	Tested with equipment.
Primary Connector (CN*) on ***	--	*****	*****	600V, 20A IEC 61984, UL 1977, CSA C22.2 No. 182.3	TÜV-R: R ***** UL: E ***** CSA: LR *****
Fuses (F1, F2) on ***	--	*****	*****	250Vac, T8A EN 60127-2, UL 248-1, UL 248-14, CSA C22.2 No.248.1, 248.14	VDE: Nr. ***** UL: E ***** CSA No.: *****
Alternate: Fuses (F1, F2) on ***	--	*****	TLC	250Vac, 15A EN 60127-2, UL 248-1, UL 248-14, CSA C22.2 No.248.1, 248.14	ETL SEMKO: No.***** UL: E *****, CSA: LR *****

IEC 61010-1			
Product	SAFETY PRODUCT, FSS2014-C	Result –Remark	Rev.0

Unique component reference or location	Application/Function	Manufacturer (NOTE 1)	Type / model	Technical data (NOTE 2)	Evidence of acceptance (NOTE3)
Varistor (Z1) on *** (between line and line)	--	*****	*****	385Vac IEC 61051-1 / -2, UL 1449, UL 1414, CSA C22.2 No.1-94 Class 2221 01	VDE: Nr.***** UL: E *****, CSA: LR *****
X Capacitors (C1, C2, C3, C68) on *** (between line and line)	--	*****	*****	310Vac, 1.0μF, marked X2 EN 60384-14, UL 1414 (UL 60384-14) / CSA E384-14	Intertek SEMKO: SE/***** UL/cUL: E *****
Alternate: X Capacitors (C1, C2, C3, C68) on *** (between line and line)	--	*****	*****	275Vac, 1.0μF, marked X2 EN 132400 / IEC384-14, UL 1414 (UL 60384-14), CSA C22.2 No.1 (CAN/CSA-E60384-1)	IMQ: V***** UL: E ***** CSA: LR *****
Inductors (L1, L2, L6) on ***(between line and line)	--	*****	*****	Insulation Class A	Tested with equipment.
Y Capacitors (C4, C5) on *** (between line and ground)	--	*****	*****	250Vac, 2200pF, marked Y1 EN 60384-14, UL 1414 (UL 60384-14), CSA E384-14	VDE: Nr. ***** UL: E ***** CSA: LR *****

↓ ……..

↓ ……

IEC 61010-1			
Product	SAFETY PRODUCT, FSS2014-C	Result –Remark	Rev.0

Unique component reference or location	Application/Function	Manufacturer (NOTE 1)	Type / model	Technical data (NOTE 2)	Evidence of acceptance (NOTE3)
Insulation of Secondary Wires (between CN* on *** and DC Fan, CN* on *** and *** on ***)	--	Various	Various	Provided with heat-shrinkable tubing.	Tested with equipment.
Top/Front Enclosure	-	--	--	Metal, min. 1.0mm thick	Tested with equipment.
Bottom/Rear Enclosure	-	--	--	Metal, min. 1.0mm thick	Tested with equipment.
Left-side, Right-side Enclosure	-	--	--	Metal, min. 1.0mm thick	Tested with equipment.
NOTE 1 - List all manufacturers concerned. NOTE 2 - Electrical, mechanical, flammability, etc. NOTE 3 - Licence number, file number or other documentary evidence of acceptance					

■ リスク分析・評価(例)

SAMPLE

製品名： SAFETY MACHINE

モデル名：FSS201A

適用規格： ISO 12100:2010 (ISO TR 14121-2)

日付: 2014年3月24日

STEP1:危険の洗い出し

タスク分析：該当製品の各行程における安全上のタスク

No.	内　容	(1) 製造時	(2) 輸送時	(3) 設置時	(4) 使用時	(5) 保守時	(6) 撤去時
■考えられる危険、危険な状態、及び事故の発生							
1	機械的危険						
	●機械部品、又は加工品が原因で起こる危険 a)形状 b)位置 c)安定性(重量) d)制御安定性(速度) e)機械強度						
	●機械内部の蓄積エネルギーが原因で起こる危険 f)弾力性機械部品(ばね) g)加圧液体及び気体 h)真空						
	1.1 押しつぶし(クラシュ)危険						
	1.2 裂断(切り裂き)の危険			●	●	●	
	1.3 切り傷、切断の危険			●	●	●	
	1.4 巻き込まれの危険			●	●	●	
	1.5 引き込まれ、落ち込みの危険						
	1.6 衝撃の危険						
	1.7 突き傷、刺し傷の危険						
	1.8 摩擦、擦り傷の危険						
	1.9 高圧液体(気体)の注入、噴出の危険						
2	電気的危険						
	2.1 電流の流れている部品に人が接触(直接接触)					●	
	2.2 故障状態で電流が流れる部品に人が接触(間接接触)			●	●	●	
	2.3 高電圧電流の流れている部品に接近					●	
	2.4 静電気現象						
	2.5 熱放射、溶融粒子及びショート、過負荷による化学的影響						
3	熱的危険						
	3.1 極高温/低温物体、材料接触、火炎,爆発、熱源放射による火傷、湯傷			●	●	●	
	3.2 高温、又は低温作業環境による健康被害						
4	騒音が起こす危険						
	4.1 聴取力喪失(聞こえない)、その他の生理的不調(認識力喪失)						
	4.2 会話の妨害、音声連絡の妨害						
5	振動が起こす危険						
	5.1 各種の神経、及び血管障害を起こす手持ち式機械の使用						
	5.2 特に劣悪な姿勢と組み合わせたときの全身振動						
6	放射から生ずる危険						
	6.1 低周波、高周波放射、マイクロ波			●	●	●	
	6.2 赤外線、可視光線及び紫外線			●	●	●	
	6.3 X線及びγ線						
	6.4 α線、β線、電子、又はイオンビーム、中性子						
	6.5 レーザ						
7	材料、及び物質が起こす危険						
	7.1 有害な液体、気体、噴霧、煙霧、及び塵埃との接触又は吸入						
	7.2 火災、又は爆発の危険						
	7.3 生物学的、又は微生物学的(ウイルス又は細菌)危険						
8	エルゴノミー(人間工学原理)を無視したことから起きる危険						
	8.1 ムリな姿勢、又は過度な操作						
	8.2 人の手-腕、足-脚を不適切に使用するムリな操作						
	8.3 防護機器、用具の使用を無視した機器の使用						
	8.4 不適切な局部照明						
	8.5 精神的ストレス(過負荷及び過小負荷)						
	8.6 ヒューマンエラー、人の行動						
	8.7 手動制御装置の不適切な設計、配置、又は識別						
	8.8 視覚表示装置の不適切な設計、又は配置						
9	組合せによる危険						
	9.1 機器の組合せによって起こる危険						
	9.2 オプション機器の追加によって起こる危険						
	9.3 組合せによって増大する危険						

STEP2:見つけた危険への対処(リスク分析・安全対策)　STEP3:対策後のリスク評価

段階番号、リスク項目は左記危険の洗い出し表よりその記号を記入。重要度、発生頻度、リスク等級の詳細は別紙参照。

リスク項目	段階番号	重大度	発生度	対策前リスク等級	標語	該当する危険部分の内容	該当する危険部分の対応	残存リスクとその対策	重大度	発生度	対策後リスク等級	備考
1.2	3,4,5	4	3	12	C	【機械的危険】 機械が途中で停止した時の基板抜取り作業時に、駆動部の突出部やエッジで手や腕を傷つける。	カバーを開いた時に駆動系が停止するようにインタロックを付ける。	—	—	—	L	
1.2	3,5	4	2	8	H	センサ、ベルトの調整時に、駆動部の突出部やエッジで手や腕を傷つける。		挟みこみ注意のラベルを貼る。	—	—	L	
1.2	5	4	2	8	H	保守部品交換時に、駆動部の突出部やエッジで手や腕を傷つける。		保守部品交換時は、マニュアルに電源を落とした状態で行う事を記載する。	—	—	L	
1.4	3,4,5	4	3	12	C	機械が途中で停止した時の基板抜取り作業時に、駆動部分に手や腕を巻き込む。		—	—	—	L	
1.4	3,5	4	2	8	H	センサ、ベルトの調整時に、駆動部分に手や腕を巻き込む。		挟みこみ注意のラベルを貼る。	—	—	L	
1.4	5	4	2	8	H	保守部品交換時に、駆動部分に手や腕を巻き込む。		保守部品交換時は、マニュアルに電源を落とした状態で行う事を記載する。	—	—	L	
1.4	3,4,5	4	2	8	H	駆動系動作異常による巻き込まれの危険性	非常停止ボタン(EMS)を付ける。	EMSの位置及び使用方法をマニュアルに記載する。	—	—	L	
1.3	3,4,5	2	3	6	M	カバーを閉じる時に手を挟む危険性。	挟みこみ注意のラベルを貼る。	—	—	—	L	
2.1	5	4	1	4	M	【電気的危険】 保守時に電源ユニットを開けた時、危険な充電部に触れ感電する。	危険な充電部を絶縁する。	—	—	—	L	
2.3	5	4	1	4	M	保守時に電源ユニットを開けた時、危険な充電部に触れ感電する。		—	—	—	L	
2.2	3,4,5	4	1	4	M	保護導体が切れた時、電源ユニットに触れると感電する。	認定電線を使用し、4mm以上のネジで端子を取付けると共に、菊座でシャーシアースを取る。	電撃注意ラベルを貼る。	—	—	L	
3.1	3,4,5	3	2	6	M	【熱的危険】 常時蛍光灯が点灯しているため、手が触れた時、やけどの危険性がある。	高温警告ラベルを貼る	—	—	—	L	危険表示ラベル［警告 WARNING］ DO NOT TOUCH DURING POWER ON. AND IMMEDIATELY AFTER POWER OFF. HOT SURFACE, HEAT INJURY HAZARD.
6.1	3,4,5	2	3	6	M	【放射から生ずる危険】 外部ノイズによる装置の異常、不要輻射ノイズにより、障害を起こす危険性。	EMC対策を行い、規格に適合させる。	—	—	—	L	EMC指令(CEマーキング)：適用規格EN61326
6.2	3,4,5	2	3	6	M	照明用LEDからの赤色光放射による危険性。	CEマーキング対応部品を使用する。 IEC 60825-1評価済み品	—	—	—	L	

・重要度(Severity); "1":軽微(Minor) "2":軽度(Light) "3":中度(Moderate) "4":Severe(重度) "5": 致命的(Catastrophic)

・発生度(Probability); "1":1回以下/10年(Unlikely) "2":1回以下/5年(Rare) "3":1回以下/1年(Posible) "4":5回以下/1年(Likely) "5":5回以上/1年(Frequent)

・リスク等級(Categories)= 重要度(Severity)×発生度(Probability)

標語: "C":Critical(12ポイント以上)設計見直し "H":High(8～11ポイント)危険低減要 "M":Medium(4～7ポイント)表示等で対処 "L":Low(1～3ポイント)許容範囲

IPS040517:Ver.1

SAMPLE

Declaration of Conformity

We hereby declare in our sole responsibility that the following product conforms to all the relevant provisions.

Product Name	: SAFETY PRODUCT
Model Name	: FSS2014-C
Council Directive	: LVD: 2014/35/EU EMC: 2014/30/EU RoHS: 2011/65/EU

The above product has been evaluated for conformity with Low Voltage, EMC and RoHS Directives by the following European standards. The technical documentation for this product is retained at the above manufacturer's location.

Applicable Standards	: EN 61010-1:2010 EN 61326-1:2003 EN 50581:2012
Trade Name	: FSS
Manufacturer	: FSS CORP.
Date of Declaration	: 2 July, 2014
Company Name/Address of Declarant :	FUJISAFETY SUPPORT CORP. 1-15-55, Shirayuri, Izumi-ku, Yokohama-shi, Kanagawa 245-0005, Japan URL: http://fujisafety.jp/
Authorized Signature of Declarant :	Shuji Fujinoki / President Name in type/Title: