Foshan UC Testing and Certification Services Co., Ltd.

MD TEST REPORT

FOR

ANHUI HONYI INTERNATIONAL CORP.

B-2106 BUSINESS BLDG, WOYE GARDEN GANQUAN Road, SHUSHAN DISTRICT HEFEI, ANHUI, 230088, CN

Cannular Compact Semi-Auto Canning Machine - Bench-top Can Seamer

Model No.: KL15769, KL10757, KL12539, KL17343

This Report Concerns: ☒ Original Report	Revision History: R1.0
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Foshan UC Testing and Certification Services Co.,Ltd. * Approval *

TEST REPORT

EN 60204-1:2018

Safety of machinery –

Electrical equipment of machines - Part 1: General requirements

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Testing location.....:	2nd Floor, Building 21, Phase 3, Tianfulai International Industrial Zone, Ronggui, Shunde District, Foshan City, Guangdong, China
Applicant's name .....:	ANHUI HONYI INTERNATIONAL CORP.
Address .....:	B-2106 BUSINESS BLDG, WOYE GARDEN GANQUAN Road, SHUSHAN DISTRICT HEFEI, ANHUI, 230088, CN
Test specification:	
Standard.....:	EN 60204-1:2018
Test procedure .....:	CE-MD
Non-standard test method.....:	N.A.
Trademark.....:	N/A
Model/type reference.....:	KL15769, KL10757, KL12539, KL17343
Rating .....:	Adaptor: Input: 180 - 240 V; 50 / 60 Hz; Output: 24 V; 12,5 A Cannular Compact Semi-Auto Canning Machine - Bench-top Can Seamer: 24 V; 250 W
Remarks.....	This report is only valid in its full version including UC2020072948-R Part I and Part II.

EN 60204-1:2018			
Clause	Requirement	Remarks - Results	Verdict
1	Scope	Informative paragraph	P
2	Normative references	Informative paragraph	P
3	Definitions	Informative paragraph	P
4	General requirements	-	P
4.1	General considerations (EN 1050; hazards, safeguarding (EN 292-2 cl. 4), inquiry form etc.)	Covered by Machinery Directive	P
4.2	Selection of equipment		P
4.2.1	General (compliance with EN or IEC standards)		P
4.2.2	Electrical equipment in compliance with the EN 60439 series		N/A
4.3	Electrical supply (+/-10%, +/-1%Hz, harmonics, unbalance, impulses, interruption, dips etc.)		P
4.4	Physical environment and operating conditions	-	P
4.4.1	General (see annex B)		P
4.4.2	Electromagnetic Compatibility (see EMC directive)		P
4.4.3	Ambient Air Temperature (5-40°C) (see annex B)		P
4.4.4	Humidity (30-95%)		P
4.4.5	Altitude (1000m)		N/A
4.4.6	Contaminants (see 11.3 and annex B for details)		N/A
4.4.7	Ionizing and non-ionizing Radiation (see annex B)	Not intended to be exposed to radiation	N/A
4.4.8	Vibration, Shock and Bump (see annex B)		P
4.5	Transportation and storage (-25-55°C/70°C)		N/A
4.6	Provision for handling (see 13.4.6)		N/A
4.7	Installation (EN's for ergonomic design)		N/A
5	Incoming Supply Conductor Terminations and Devices for Disconnecting and Switching off		P
5.1	Incoming supply conductor terminations (EN 60445, 5.2, 5.3.1 and 5.3.2d)		N/A
5.2	Terminal for connection to the external protective earthing system (table 1, 8.2.2 and EN 60445)		N/A

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Clause	Requirement	Remarks - Results	Verdict
5.3	Supply disconnecting (isolating) device		P
5.3.1	General (for each supply)		P
5.3.2	Type - switch-disconnector (EN 60947-3 AC- 23B or DC-23B) - disconnector with auxiliary contact (EN 60947-3) - circuit-breaker (EN 60947-2) - other switching device (EN 60947-1 for isolation, relevant product standards) - plug/socket combination		P
5.3.3	Requirements (IEC 60417-5007, IEC 60417-5008, red handle for E-stop, padlock, stalled motor, etc.)		N/A
5.3.4	Operating handle (0.6-1.7/1.9m)		N/A
5.3.5	Excepted circuits (lighting, under voltage, UPS, etc.)		N/A
5.4	Devices for switching off for prevention of unexpected start-up (disconnect of 5.3.2, 3.17 and 5.6)		N/A
5.5	Devices for disconnecting electrical equipment (see 5.3, 5.3.2 and 5.6)		P
5.6	Protection against unauthorized, inadvertent and/or mistaken connection (see 5.4, 5.5 and 5.3.2 d)		P
6	Protection against electric Shock		P
6.1	General		P
6.2	Protection against direct contact		P
6.2.1	General (see 6.2, IEC 60364-4 and EN 60529 IP4X/XXB)		P
6.2.2	Protection by enclosures (general > IP4X; a) opened by tool and without disconnect > IP2X inside; b) disconnect with interlock > IP2X inside; c) without tool and without disconnect > IP2X and interlock for barrier)		N/A
6.2.3	Protection by insulation of live parts (completely covered)		P
6.2.4	Protection against residual voltage (60V/5sec or 60μC/1sec or IP2X)		N/A
6.2.5	Protection by barriers		N/A

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Clause	Requirement	Remarks - Results	Verdict
	(see 412.2 of IEC 60364-4-41)		
6.2.6	Protection by placing out of reach or protection by obstacles (see 412.4 and 412.3 of IEC 60364-4-41)		N/A
6.3	Protection against indirect contact		P
6.3.1	General (see 3.27, 6.3.2 to 6.3.3)	See below	P
6.3.2	Prevention of the occurrence of a touch voltage	See below	P
6.3.2.1	General	See below	P
6.3.2.2	Protection by use of class II equipment or by equivalent insulation	Class III equipment	N/A
6.3.2.3	Protection by electrical separation	Not used	N/A
6.3.3	Protection by automatic disconnection of supply	Exposed conductive parts are connected to the protective bonding circuit.	P
6.4	Protection by the use of PELV	-	N/A
6.4.1	General requirements (25/60V and 6/15 etc.)		N/A
6.4.2	Sources for PELV	Not applicable	N/A
7	Protection of Equipment	-	P
7.1	General	-	P
7.2	Overcurrent protection	See below	P
7.2.1	General	Fuse is used as overcurrent protection devices.	P
7.2.2	Supply conductor (data for installation protection device)	To be provided by end user, and relevant information is provided in user manual	P
7.2.3	Power circuits (7.2.10, neutral conductor, etc.)	Information of wire sizes and over current protection rating in circuit diagram are checked. Overcurrent protective devices are applied to each live conductor. Wire sizes are in compliance with tables 5,6	P
7.2.4	Control circuits (connection to safety ground)	Not applicable	N/A
7.2.5	Socket outlets and their associated conductors	None	N/A

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Clause	Requirement	Remarks - Results	Verdict
	(for each socket outlet)		
7.2.6	Lighting circuits (unearthed conductor)	Not applicable	N/A
7.2.7	Transformers (see 7.2.10)	Not applicable	N/A
7.2.8	Location of overcurrent protective devices (conductor, reduction for less 3m and own duct)	Compliant	P
7.2.9	Overcurrent protective devices (must readily available in country of use)	Compliant	P
7.2.10	Rating and setting of overcurrent protective devices (as low as possible)	Ratings of overcurrent protective device is checked and ok.	P
7.3	Protection of motors against overheating	-	P
7.3.1	General (more than 0.5kW, restart not possible)	See below	P
7.3.2	Overload protection	Overload protection provided by the fuse used.	P
7.3.3	Over-temperature protection (IEC 60034-11)	Not used	N/A
7.3.4	Current limiting protection	Not used	N/A
7.4	Abnormal temperature protection (heater protection)	Not used	N/A
7.5	Protection against supply interruption or voltage reduction and subsequent restoration (undervoltage device, restart not possible)	Not required	N/A
7.6	Motor overspeed protection (see 9.3.2)	Not required	N/A
7.7	Earth fault/residual current protection (see 6.3)	Not required	N/A
7.8	Phase sequence protection	Not required	N/A
7.9	Protection against overvoltage due to lightning and to switching surge		N/A
8	Equipotential Bonding	Informative paragraph	P
8.1	General	Compliant	P
8.2	Protective conductors	See below	N/A
8.2.1	General (figure 2, all stress, etc.)	Not required	N/A

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Clause	Requirement	Remarks - Results	Verdict
8.2.2	Protective conductors (13.2.2, size in accordance with Table 1)	Not required	N/A
8.2.3	Continuity of the protective bonding circuit (doors, hinges etc. need conductor, except for PELV etc.)	Not required	N/A
8.2.4	Exclusion of switching devices from the protective bonding circuit	Not required	N/A
8.2.5	Parts that need not be connected to the protective bonding circuit (insulation failure unlikely, 50x50mm2)	None	N/A
8.2.6	Protective conductor connecting points (IEC 60417- 5019 or green-and-yellow, PE only for supply terminal)		N/A
8.2.7	Mobile machines	Not mobile machines	N/A
8.2.8	Additional protective bonding requirements for electrical equipment having earth leakage current higher than 10mA a.c. or d.c.	None	N/A
8.3	Functional bonding (insulation failure and EMI, see 4.4.2 and 9.4.3.1)	None	N/A
8.4	Measures to limit the effects of high leakage current	None	N/A
9	Control Circuits and Control Functions	Informative paragraph	P
9.1	Control circuits	See below	P
9.1.1	Control circuit supply (transformer, except for less than two controls etc.)	None	N/A
9.1.2	Control circuit voltages (< = 277V)		N/A
9.1.3	Protection (7.2.4 and 7.2.10)		N/A
9.2	Control functions	See below	P
9.2.1	Start functions (9.2.5.2)	Start function ignites the related circuits directly.	P
9.2.2	Stop functions (category 0, 1, and 2 etc.)	Category 0 provided.	P
9.2.3	Operating modes (separate action for mode selector functions etc.)	No mode selector provided.	N/A
9.2.4	Suspension of safeguards (hold-to-run, speed limiting, range of motion)	None	N/A

EN 60204-1:2018			
Clause	Requirement	Remarks - Results	Verdict
9.2.5	Operation	See below	P
9.2.5.1	General (interlock see 9.3)	Compliant	P
9.2.5.2	Start (safeguard in place, interlocks with sequential starting ...)	Machine can only be operated in safe condition only	P
9.2.5.3	Stop (category depends on risk assessment based on EN 1050 ...)	The stop category is category 0.	P
9.2.5.4	Emergency operations (emergency stop, emergency switching off)	See below	P
9.2.5.4.1	General	None	N/A
9.2.5.4.2	Emergency stop (see ISO 13850, category 0/1 stop, see 9.2.5.3, 9.2.2)	None	N/A
9.2.5.4.3	Emergency switching off (see IEC 60364-4-53, 536.4)	No emergency switching off is provided.	N/A
9.2.5.5	Monitoring of command actions (for hazardous movement)	Movement of machine monitored at operating position.	P
9.2.6	Other control functions	See below	P
9.2.6.1	Hold-to-run controls (continuous actuation)	None	N/A
9.2.6.2	Two-hand control (type I, II, and III...)	None	N/A
9.2.6.3	Enabling device (see also 10.9)	None	N/A
9.2.6.4	Combined start and stop controls (for secondary function only)	None	N/A
9.2.7	Cableless control	None	N/A
9.2.7.1	General	None	N/A
9.2.7.2	Control limitation	None	N/A
9.2.7.3	Stop (see annex B)	None	N/A
9.2.7.4	Use of more than one operator control station	None	N/A

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Clause	Requirement	Remarks - Results	Verdict
9.2.7.5	Battery-powered operator control stations	None	N/A
9.3	Protective interlocks	None	N/A
9.3.1	Reclosing or resetting of interlocked safeguards (no automatic start...)	None	N/A
9.3.2	Exceeding operating limits	None	N/A
9.3.3	Operation of auxiliary functions (sensors...)	None	N/A
9.3.4	Interlocks between different operations and for contrary motions (interlock against contrary motion)	None	N/A
9.3.5	Reverse current braking (time function is not possible...)	None	N/A
9.4	Control functions in case of failure	-	P
9.4.1	General requirements (protective device, proven techniques, redundancy, functional tests...)	Considered	P
9.4.2	Measures to minimize risk in the event of failure	See below	P
9.4.2.1	Use of proven circuit techniques and components (one terminal, de-energizing for stop, positive open operation, design...)	Measures to reduce those risks include but are not limit to : -use of proven circuit techniques and components	P
9.4.2.2	Provisions of partial or complete redundancy (on-line, off-line...)	None	N/A
9.4.2.3	Provision of diversity (combination of open and closed contacts, different components, electrical and non-electrical systems...)	None	N/A
9.4.2.4	Provision for functional tests (automatic or manually (17.2 and 18.6)...)	None	N/A
9.4.3	Protection against maloperation due to earth faults, voltage interruptions and loss of circuit continuity		N/A
9.4.3.1	Earth faults (method a, b, c)		N/A
9.4.3.2	Voltage interruptions (7.5...)		P
9.4.3.3	Loss of circuit continuity	No sliding contacts	N/A
10	Operator Interface and Machine mounted Control	-	P

EN 60204-1:2018			
Clause	Requirement	Remarks - Results	Verdict
	Devices		
10.1	General	See below	P
10.1.1	General device requirements (IEC 61310 and IEC 60447)	Compliant	P
10.1.2	Location and mounting (>= 0.6m...)	None	N/A
10.1.3	Protection (IPXXD, EN 60529...)	None	N/A
10.1.4	Position sensors (no damage...)	None	N/A
10.1.5	Portable and pendant control stations	Not used	P
10.2	Push-buttons	See below	P
10.2.1	Colors (table 2, red and yellow!...)	Color coding for push button appropriate	P
10.2.2	Markings (IEC 60417, EN 50099...)	Checked and ok	P
10.3	Indicator lights and displays	Considered	P
10.3.1	Modes of use (red, yellow, green!...)	Considered	P
10.3.2	Colors (EN 50099...)	Considered	P
10.3.3	Flashing lights and displays (immediate action...)	Considered	P
10.4	Illuminated push-buttons (table 2 and 4...)	Not used	N/A
10.5	Rotary control devices (rotation...)	Not used	N/A
10.6	Start devices (inadvertent operation...)	Inadvertent operation is not expected. Checked and ok.	P
10.7	Emergency stop devices	Not used	N/A
10.7.1	Location of emergency stop devices (see 9.2.7.3)	Not used	N/A
10.7.2	Types of emergency stop device (push-button, pull-cord, and pedal-operated)	Not used	N/A

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Clause	Requirement	Remarks - Results	Verdict
10.7.3	Colour of actuators (red and yellow)	Not used	N/A
10.7.4	Local operation of the supply disconnecting device to effect emergency stop (disconnecting device based on 5.3.2 a), b) or c); color see 10.7.3)	Not used	N/A
10.8	Emergency switching off devices	None	N/A
10.8.1	Location of emergency switching off devices	Not applicable	N/A
10.8.2	Types of emergency switching off device (push-button operated, pull-cord operated, see EN 60947-5-1)	Not applicable	N/A
10.8.3	Colour of actuators (Red and Yellow background)	Not applicable	N/A
10.8.4	Local operation of the supply disconnecting device to effect emergency switching off (see 10.8.3)	Not applicable	N/A
10.9	Enabling control device (position 1/2/3)	No enabling control device used.	N/A
11	Controlgear: location, mounting and enclosures	-	P
11.1	General requirements	Compliant	P
11.2	Location and mounting	See below	P
11.2.1	Accessibility and maintenance (0.4-2.0m, see 13.4.5)	Control gear easily accessible	P
11.2.2	Physical separation or grouping (power circuits, associated control circuits, other)	Grouping for different circuits provided	P
11.2.3	Heating effects (limits...)	Ok, sufficient space provided	P
11.3	Degrees of protection (at least IP22 for enclosures of controlgear, see EN 60529...)	Enclosure has proper sealing. Glands used for protecting the cable and reaching the IP degree.	P
11.4	Enclosures, doors and openings (doors <= 0.9m, no openings between liquids and electrical devices, fasteners of captive type...)	Enclosure has proper sealing. Glands used for protecting the cable and reaching the IP degree.	P
11.5	Access to controlgear (see 481.2.4 of IEC 60364-4-81, 0.7m x 2.0m...)	Not applicable	N/A

EN 60204-1:2018			
Clause	Requirement	Remarks - Results	Verdict
12	Conductors and Cables	-	P
12.1	General requirements (EN 60439-1...)	See below	P
12.2	Conductors (table 5)	PVC insulated conductors adequately dimensioned (according to Table 5)	P
12.3	Insulation (PVC, 2000V test voltage, 500V for PELV, see IEC 60364-4-41, class III equipment...)	Tested and ok, 2000V, 5min for power circuits;	P
12.4	Current-carrying capacity in normal service (table 5, table 6, and D2...)	The conductor sizes are checked according to Table 5, 6 and D.2, D.3.	P
12.5	Conductor and cable voltage drop (<= 5%...)	No long wiring, voltage drop is less than 5%.	P
12.6	Flexible cables	See below	P
12.6.1	General (table D.4...)	Considered	P
12.6.2	Mechanical rating (15 N/mm2...)	The cables are properly fixed and guided.	P
12.6.3	Flexible cables (table 7, see clause 44 of IEC 60621-3)	All wiring is suitable for the bending frequency and radius.	N/A
12.7	Conductor wires, conductor bars and slip-ring assemblies	See below	P
12.7.1	Protection against direct contact (see 412.2.2 of IEC 60364-4-41)	Conduct wires are protected against direct contact	P
12.7.2	Protective conductor circuit	Protective bonding circuit does not carry current in normal operation, protective conductor and neutral conductor use separate conductor wire.	P
12.7.3	Protective conductor current collectors	None	N/A
12.7.4	Removable current collectors with a disconnector function (see 8.2.4)	None	N/A
12.7.5	Clearances in air	Considered.	P
12.7.6	Creepage distances	Considered.	P
12.7.7	Conductor system sectioning	None	N/A
12.7.8	Construction and installation of collector wire, collector bar systems and slip-ring assemblies	Considered	P

EN 60204-1:2018			
Clause	Requirement	Remarks - Results	Verdict
13	Wiring Practices	-	P
13.1	Connections and routing		N/A
13.1.1	General requirements (loosening, one terminal, correspond with schematics, no solder, EN 60947-7-1, no cross overs...)		N/A
13.1.2	Conductor and cable runs (from terminal to terminal, no strain to termination, ...)		N/A
13.1.3	Conductors of different circuits (insulation for highest voltage, separation of live conductors before disconnect or marked with different color...)		N/A
13.1.4	Connection between pick-up converter of an inductive power supply system (as short as possible…)		N/A
13.2	Identification of conductors		N/A
13.2.1	General requirements		N/A
13.2.2	Identification of the protective conductor (60417-IEC-5019 symbol or green-and-yellow...)		N/A
13.2.3	Identification of the neutral conductor (light blue (3.2.2 of IEC 60446)...)		N/A
13.2.4	Identification of other conductors (black > power, red > control, orange > interlock...)		N/A
13.3	Wiring inside enclosures (IEC 60332, 11.2.1, 8.2.3...)	Compliant	N/A
13.4	Wiring outside enclosures	See below	N/A
13.4.1	General requirements (individual glands, bushings, ...)	Not applicable	N/A
13.4.2	External ducts (13.5, ...)	Not applicable	N/A
13.4.3	Connection to moving elements of the machine (12.2, 12.6, flexible conduit, 25mm, no metallic conduits, ...)	Not applicable	N/A
13.4.4	Interconnection of devices on the machine (no in series connection of devices...)	Not applicable	N/A
13.4.5	Plug/socket combinations (safety ground first, > 16A must be locked, identification, see 6.2.4 and IEC 60309-1...)	Not applicable	N/A
13.4.6	Dismantling for shipment (protected, ...)	Not applicable	N/A

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Clause	Requirement	Remarks - Results	Verdict
13.4.7	Additional conductors (spare conductors)	Not applicable	N/A
13.5	Ducts, connection boxes and other boxes	See below	N/A
13.5.1	General requirements (no edges, separation from liquids...)	Not applicable	N/A
13.5.2	Percentage fill of duct	Not applicable	N/A
13.5.3	Rigid metal conduit and fittings (corrosion...)	Not used	N/A
13.5.4	Flexible metal conduit and fittings	Not used	N/A
13.5.5	Flexible non-metallic conduit and fittings	Not used	N/A
13.5.6	Cable trunking systems	Not used	N/A
13.5.7	Machine compartments and cable trunking systems	Not used	N/A
13.5.8	Connection boxes and other boxes (see 11.3)	Not used	N/A
13.5.9	Motor connection boxes	Only used for motor terminals	P
14	Electric Motors and associated Equipment	-	P
14.1	General requirements (EN 60034-1, 7.3, 7.6, 7.2, 5.3, 5.4, 5.5, 7.5, 7.6, 9.4, 11...)	Compliant	P
14.2	Motor enclosure (EN 60034-5, IP23...)	At least IP44 achieved.	P
14.3	Motor dimensions (IEC 60072-1, IEC 60072-2...)	Not safety relevant.	N/A
14.4	Motor mounting and compartments (EN 60034-1, guarding...)	Motors are adequately protected and easily accessible	P
14.5	Criteria for motor selection (EN 60034-1, IEC 60146, ...)	Suitable for operation	P
14.6	Protective devices for mechanical brakes	Not applicable	N/A
15	Accessories and Lighting	See below	P
15.1	Accessories (socket-outlets based on EN 60309-1, see 6.4, 7.2, 7.3, 5.3.5...)	Socket outlet complying with EN 60309-1 provided.	P
15.2	Local lighting of the machine and equipment	See below	N/A
15.2.1	General (see 8.2.2, 4.4.2...)	Ambient lighting sufficient for operation of machine;	N/A

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Clause	Requirement	Remarks - Results	Verdict
15.2.2	Supply (<= 50V, 250V, one source like transformer, separate overcurrent protection, factory lighting, 7.2.6...)	None	N/A
15.2.3	Protection (7.2.6...)	None	N/A
15.2.4	Fittings (lampholders based on IEC, ...)	None	N/A
16	Marking, warning signs and reference designations	Informative paragraph	P
16.1	General	See below	P
16.2	Warning signs (IEC 60417-5036, no disconnect, ...)	Flash Warning label and hot warning label used	P
16.3	Functional identification (IEC 60417, ISO 7000...)	Appropriate identifications provided.	P
16.4	Marking of equipment (name, mark, ratings, IEC 62023...)	Required information provided in the nameplate.	P
16.5	Reference designation	Control devices and components are identified as in the technical drawing. Checked ok	P
17	Technical Documentation	-	P
17.1	General (see annex B)	The information provided is considered adequate and in English	P
17.2	Information to be provided (description, supply requirements, environment, block diagram, schematics, sequence of operation, inspection, functional tests, maintenance, part lists...)	The documentation provided is considered complete, see also below	P
17.3	Requirements applicable to all documentation (IEC 61082, IEC 61346 IEC 62079, IEC 62027, cross-reference, ...)	Relevant information provided in the user manual.	P
17.4	Installation documents (supplies, drawing, location, Annex B, interconnection drawing...)	Sufficient information is given in the user manual.	P
17.5	Overview diagrams and function diagrams (IEC 61082series ...)	Checked by inspection.	P
17.6	Circuit diagram (IEC 60617, cross-reference...)	Circuit diagram provided in user manual	P
17.7	Operating manual (see also product specific standard, 1.7.4 in Annex I of Machinery	Checked by inspection.	P

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Clause	Requirement	Remarks - Results	Verdict
	Directive...)		
17.8	Maintenance manual	Checked by inspection.	P
17.9	Parts list	Parts list of electric components are provided	P
18	Verification	-	P
18.1	General		P
18.2	Verification of conditions for protection by automatic disconnection of supply		N/A
18.2.1	General	TN system	P
18.2.2	Test methods in TN-systems		P
18.2.3	Application of the test methods for TN-systems	see above	P
18.3	Insulation resistance tests (500Vdc, > 1 MΩ...)	Measured value: >20 MΩ	P
18.4	Voltage tests (1000Vac, 1 sec, 500VA...)	1000V, 60sec applied and passed	P
18.5	Protection against residual voltages (6.2.4...)	Not applicable	N/A
18.6	Functional tests (all safety related functions and components...)	Performed according to the user manual	P
18.7	Retesting (after modifications...)	Not applicable.	N/A
Annex B	Inquiry Form (Annex B of EN 60204-1) (for information between supplier and user only) – Name of manufacturer: – Name of end user, if applicable: – Order number, if applicable: – Type/Model of machine: – Serial number:	Not applied for, however it is recommended to use this form together with end user	P