

IEC61029_2_6A - ATTACHMENT			
Clause	Requirement + Test	Result - Remark	Verdict

<b>ATTACHMENT TO TEST REPORT IEC61029-2-6</b> <b>EUROPEAN GROUP DIFFERENCES AND NATIONAL DIFFERENCES</b> Safety of transportable motor-operated electric tools – Part 2-6: Particular requirements for diamond drills with water supply	
<b>Differences according to.....:</b>	EN 61029-2-6:2010 EN 61029-1:2009 + A11:2010
<b>Attachment Form No.....:</b>	EU_GD_IEC61029_2_6A
<b>Attachment Originator .....</b>	DEKRA Certification B.V.
<b>Master Attachment .....</b>	2012-10
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CENELEC COMMON MODIFICATIONS (EN)			
7	MARKING		
	Business name and address of the manufacturer and, where applicable, his authorised representative. Any address must be sufficient to ensure contact.....:	Lee Yeong Industrial Co., Ltd. No.2, Kejia Rd., Douliu City, Yunlin County 64057, Taiwan	P
	Designation of the tool .....	Diamond core drill	P
	Designation of series or type .....	DM14; CB744; CB733; QDM-350; KDMS450; DM10; DM12; DM9; KDMS350; EVO3.5	P
	Year of manufacture .....	2014 and later	P
	Diamond drills with water supply shall be marked with:		P
	- Rated no-load speed in revolutions per minute (EN 61029-2-6:2010)	DM14; CB744; CB733; QDM-350 ; KDMS450: $n_0= 385/ 530/ 975/ 1340 \text{ min}^{-1}$ ; $\varnothing 355 \text{ mm}$ ; DM10; DM12; DM9; KDMS350; EVO3.5: $n_0= 450 /810 /1300 \text{ min}^{-1}$ ; $\varnothing 250 \text{ mm}$ ;	P

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	- Maximum diameter, in millimetres, of the bit for drilling (EN 61029-2-6:2010)	DM14; CB744; CB733; QDM-350 ; KDMS450:Ø 355 mm; DM10; DM12; DM9; KDMS350; EVO3.5:Ø 250 mm	P
	- Read instruction manual or relevant symbol (EN 61029-2-6:2010)		P
	Tool for star-delta connection clearly marked with the two voltages		N/A
	Rated input or current is the total maximum that can be on the circuit at the same time		N/A
	In case of alternative components, the rated input is corresponding to the highest load		N/A
	Additional markings (e.g. motor markings) are allowed, provided that they do not give rise to misunderstanding	CE marking and WEEE symbol	P
7.3	Heating elements: marking according to EN60335-1		N/A
7.4	If the tool can be adjusted to suit different rated voltages or different rated inputs, the voltage or input to which the tool is adjusted is easily and clearly discernible.		N/A
	This requirement does not apply to tools for star-delta connection.		N/A
	For tools where frequent changes in voltage setting are not required, this requirement is deemed to be met if the rated voltage or the rated input to which the tool is adjusted, can be determined from a wiring diagram fixed to the tool; the wiring diagram may be on the inside of a cover which has to be removed to connect the supply conductors. This diagram may be on a card which is riveted to the cover or on a paper or similar label secured to the cover by an adhesive but it must not be on a label loosely attached to the tool.		N/A
7.13	The words 'Original instructions' must appear on the language version(s) verified by the manufacturer or his authorised representative.		P

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	Where no 'Original instructions' exist in the official language(s) of the country where the tool is to be used, a translation into that/those language(s) must be provided by the manufacturer or his authorised representative or by the person bringing the tool into the language area in question		N/A
	The translations must be bearing the words "Translation of the original instructions", and they must be accompanied by a copy of the "Original instructions".		N/A
	- Instructions		
	a) Installation instructions:		P
	- Setting-up or fixing tool in a stable position.		P
	- Information about disassembly and reassembly if applicable for transportation and/or use.		P
	b) Operating instructions:		P
	- Limits on size of work piece and type of material.		P
	- Indication of the correct operator's position.		P
	- Instruction on how to handle jammed accessories.		P
	- Information about lifting handles/similar, and instruction to use them for transportation.		P
	c) Safety precautions:		P
	- Precautions and use of PPE.		P
	- The instruction handbook shall contain at least a repeat of the warnings affixed to the tool. Furthermore, it shall contain warnings against the following hazards and/or hazardous situations and related instructions for safe use (EN 61029-2-6:2010)		P
	- Hazardous situation due to broken parts. Instruction shall be given to check core bits before using. Deformed or damaged drill core bits shall not be used; (EN 61029-2-6:2010)		P
	- Use of non-recommended cutting tools, which can lead to injuries due to the loss of control. Instruction shall be given to use drill core bits designed for this machine only and concerning the minimum and maximum diameter and length of those core bits. (EN 61029-2-6:2010)		P

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	- Incorrect clamping and positioning of the drill core bit may lead to dangerous situations by broken and ejected parts of the drill core bit. Instruction shall be given how the drill core bits shall be assembled and adjusted and which fastening torque (if applicable) is recommended; (EN 61029-2-6:2010)		P
	- The necessity to always wear suitable personal protective equipment (PPE). Instruction shall describe PPE means such as: (EN 61029-2-6:2010)		P
	- Hearing protection, to reduce the risk of induced hearing loss, (EN 61029-2-6:2010)		P
	- Gloves, when handling core bits or rough materials, to reduce injuries by sharp edges, (EN 61029-2-6:2010)		P
	- Safety glasses, to prevent injuries by flying particles, (EN 61029-2-6:2010)		P
	- Non-slipping footwear, to prevent injuries caused by slippery surfaces; (EN 61029-2-6:2010)		P
	- Hazardous situation due to dust production when drilling without water supply. Instruction shall be given to use a dust extraction device, if any, and/or a dust mask. (EN 61029-2-6:2010)		P
	- General safety instructions. These must consist of the following text: <b>"WARNING!</b> When using electric tools basic safety precautions should always be followed to reduce the risk of fire, electric shock and personal injury including the following. Read all these instructions before attempting to operate this product and save these instructions".		P
	d) Maintenance and servicing:		P
	- Regular cleaning, maintenance and lubrication. (Including the warning "Remove the plug before carrying out any adjustment, servicing or maintenance").		P
	- Instruction, how to safely remove blockages of dust, chips or workpiece fragments.		P
	e) Safe operation:		P
	Keep work area clear - Cluttered areas and benches invite injuries.		P

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	Consider work area environment - Do not expose tools to rain. - Do not use tools in damp or wet locations. - Keep work area well lit. - Do not use tools in the presence of flammable liquids or gases.		P
	Guard against electric shock - Avoid body contact with earthed or grounded surfaces (e.g. pipes, radiators, ranges, refrigerators).		P
	Keep other persons away - Do not let persons, especially children, not involved in the work touch the tool or the extension cord and keep them away from the work area.		P
	Store idle tools - When not in use, tools should be stored in a dry locked-up place, out of reach of children.		P
	Do not force the tool - It will do the job better and safer at the rate for which it was intended.		P
	Use the right tool - Do not force small tools to do the job of a heavy duty tool. - Do not use tools for purposes not intended; for example do not use circular saws to cut tree limbs or logs.		P
	Dress properly - Do not wear loose clothing or jewellery, they can be caught in moving parts. - Non-skid footwear is recommended when working outdoors. - Wear protective hair covering to contain long hair.		P
	Use protective equipment - Use safety glasses. - Use face or dust mask if working operations create dust.		P

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	Connect dust extraction equipment - If the tool is provided for the connection of dust extraction and collecting equipment, ensure these are connected and properly used.		N/A
	Do not abuse the cord - Never yank the cord to disconnect it from the socket. Keep the cord away from heat, oil and sharp edges.		P
	Secure work - Where possible use clamps or a vice to hold the work. It is safer than using your hand.		P
	Do not overreach - Keep proper footing and balance at all times.		P
	Maintain tools with care - Keep cutting tools sharp and clean for better and safer performance. - Follow instruction for lubricating and changing accessories. - Inspect tool cords periodically and if damaged have them repaired by an authorized service facility. - Inspect extension cords periodically and replace if damaged. - Keep handles dry, clean and free from oil and grease.		P
	Disconnect tools - When not in use, before servicing and when changing accessories such as blades, bits and cutters, disconnect tools from the power supply.		P
	Remove adjusting keys and wrenches - Form the habit of checking to see that keys and adjusting wrenches are removed from the tool before turning it on.		P
	Avoid unintentional starting - Ensure switch is in "off" position when plugging in.		P
	Use outdoor extension leads - When the tool is used outdoors, use only extension cords intended for outdoor use and so marked.		P

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	<p>Stay alert</p> <ul style="list-style-type: none"> <li>- Watch what you are doing, use common sense and do not operate the tool when you are tired.</li> </ul>		P
	<p>Check damaged parts</p> <ul style="list-style-type: none"> <li>- Before further use of tool, it should be carefully checked to determine that it will operate properly and perform its intended function.</li> <li>- Check for alignment of moving parts, binding of moving parts, breakage of parts, mounting and any other conditions that may affect its operation.</li> <li>- A guard or other part that is damaged should be properly repaired or replaced by an authorized service centre unless otherwise indicated in this instruction manual.</li> <li>- Have defective switches replaced by an authorized service centre.</li> <li>- Do not use the tool if the switch does not turn it on and off.</li> </ul>		P
	<p>Warning</p> <ul style="list-style-type: none"> <li>- The use of any accessory or attachment other than one recommended in this instruction manual may present a risk of personal injury.</li> </ul>		P
	<p>Have your tool repaired by a qualified person</p> <ul style="list-style-type: none"> <li>- This electric tool complies with the relevant safety rules. Repairs should only be carried out by qualified persons using original spare parts, otherwise this may result in considerable danger to the user.</li> </ul>		P
	<p>A wrongly assembled machine may cause a hazardous situation. Instruction shall be given how to fix the machine into the stand and fixing to the material to be drilled; (EN 61029-2-6:2010)</p>		P
	<p>Fixing with vacuum devices can lead to dangerous situations. (EN 61029-2-6:2010)</p>		N/A
	<p>– Instruction to check the surface where the drill stand shall be fixed. Surface such as irregular (rough) can significantly reduce the effectiveness of the suction system. Coated or laminated surface can be pulled off during work; (EN 61029-2-6:2010)</p>		N/A

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	– Instruction to additionally secure the drill stand in case of drilling horizontally or vertically up by using appropriate accessories or means. A description of the characteristics of these means and how to fit them to the drill system shall be given; (EN 61029-2-6:2010)		N/A
	– Information regarding the minimum vacuum level necessary for safe operation and how to control it during the drilling operation; (EN 61029-2-6:2010)		N/A
	– Information regarding the maximum core bit diameter suitable for use with vacuum fixing. (EN 61029-2-6:2010)		N/A
Za)	Emissions		P
	1 The noise emission according to 13.2.		P
	2 Recommendation for the operator to wear hearing protection.		P
	3 The vibration emission according to 13.3.		N/A
	Vibration emission < 2.5 m/s <sup>2</sup> , stated in the instruction		N/A
	Vibration emission > 2.5 m/s <sup>2</sup> value given in the instruction		N/A
	4 The following information:		N/A
	- that the declared vibration total value has been measured in accordance with a standard test method and may be used for comparing one tool with another.		N/A
	- that the declared vibration total value may also be used in a preliminary assessment of exposure.		N/A
	5 A warning:		N/A
	– that the vibration emission during actual use of the power tool can differ from the declared total value depending on the ways in which the tool is used; and		N/A



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	– of the need to identify safety measures to protect the operator that are based on an estimation of exposure in the actual conditions of use (taking account of all parts of the operating cycle such as the times when the tool is switched off and when it is running idle in addition to the trigger time).		N/A
Zb )	Connection to water supply		P
	1 For tools intended to be connected to a water supply, instructions for the connection to the water supply, the use of the water and the use of attachments to comply with 14.5 in order to avoid affection of the tool by water, the inspection of hoses and other critical parts which could deteriorate and the maximum permitted pressure of the water supply.		P
	2 For tools intended to be connected to a water supply, the substance of the following Instructions, if applicable:		P
	– for tools provided with a PRCD: Never use the tool without the PRCD delivered with the tool,		P
	– for tools provided with an isolating transformer: Never use the tool without the transformer delivered with the tool or of the type as specified in these instructions,		N/A
	– Replacement of the plug or the supply cord must always be carried out by the manufacturer of the tool or his service organisation,		P
	– Keep water clear off the electrical parts of the tool and away from persons in the working area.		P
	Following information is also given:		P
	- Business name and address of the manufacturer and, where applicable, his authorised representative. Any address is sufficient to ensure contact.	Lee Yeong Industrial Co., Ltd. No.2, Kejia Rd., Douliu City, Yunlin County 64057, Taiwan	P

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	- Designation of the tool and series or type as required by 7.1, including description of machine such as "bench grinder", "band saw" etc.	Diamond core drill	P
	- A repeat of the safety markings (e.g. maximum speed, capacity, etc.) that are to be marked on the tool;		P
	- An explanation of any symbols or pictograms marked on the tool;		P
	- The mass of the tool including detachable parts.	12,4 kg, DM14 11,5 kg, DM10	P
12	LEAKAGE CURRENT		
	Tools with heating element tested according to EN 60335-1; 13.2		N/A
13	ENVIRONMENTAL REQUIREMENTS		
13.1	Dust measurements:		N/A
13.2	Noise:		-
	Test according to sub clauses 13.2.1 – 13.2.6		
13.2.1	The most important sources of noise from diamond drills are: - the drill core bit; - the gear; - the motor and fan. (EN 61029-2-6:2010)		P
13.2.4	Drills with water supply are tested under load in accordance with Table Z101. (EN 61029-2-6:2010)		P
	Noise measurements :		P
13.2.7	Declaration and verification of noise emission values		P
	$L_{pA}$ [dB(A)] .....: $K_{pA}$ [dB(A)] .....:	See Report: 6001135.50A	P
	$L_{WA}$ [dB(A)] .....: $K_{WA}$ [dB(A)] .....:	See Report: 6001135.50A	P
	$L_{pCpeak}$ (dB) .....: $K_{pCpeak}$ (dB) .....:		N/A

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13.3	Vibration:		
	Test according to sub clauses 13.3.1 – 13.3.6		N/A
	Vibration measurements		N/A
13.3.7.1	Reported vibration value		N/A
	Work mode - vibration emission value a (m/s <sup>2</sup> ).....:	-	N/A
	Uncertainty K (m/s <sup>2</sup> ).....:	-	N/A
13.3.7.2	Declaration of the vibration emission value (instruction manual)		N/A
	Work mode - vibration emission value a (m/s <sup>2</sup> ).....:	-	N/A
	Uncertainty K (m/s <sup>2</sup> ).....:	-	N/A
14	MOISTURE RESISTANCE		
14.2	Tools with a higher degree than IPX0 comply with EN 60529 under working condition IP .....		N/A
14.3	Insulation resistance after humidity treatment		P
14.5	Tools, except those of class III, intended to be connected to a water supply must be constructed so that the electrical insulation of the tool is not affected by water during recommended operation.		P
	Compliance is checked by the following test.		P
	The tool is connected to a water supply and operated at 1,06 times rated voltage for 5 min in the most unfavourable position in accordance with the manufacturer's instructions.		P
	Throughout the test the leakage current between live parts and the enclosure as specified in 12.2 is monitored. The leakage current must not exceed the value specified in 12.2.		P
	Immediately after this treatment inspection must show that water has not entered the tool to any appreciable extent and that there is no trace of water on insulation for which creepage distances are specified in 27.1.		P

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16	ENDURANCE		P
16.1	Operation of overload protection devices		N/A
16.2	<i>Diamond drills are operated continuously under no-load condition for 18 hours at a voltage equal to 1,1 times rated voltage and then for 18 hours at a voltage equal to 0,9 times rated voltage. The speed is adjusted to the highest value of the highest range. (EN 61029-2-6:2010)</i>		P
17	ABNORMAL OPERATION		
17.2	If the tool incorporates a device for limiting speed and should the electronic control device fail to operate, the tool is considered to have withstood the test when the said speed limiting device operates during the test.		N/A
18	MECHANICAL HAZARDS		
18.1	<i>Additional:</i> For fixed guards that are to be removed at the place of use as part of the routine maintenance procedure, as described in the instruction manual, the fastenings must remain attached to the guard or to the tool. (EN 61029-1/A11:2010)		N/A
	All working elements, including adjustable features or attachments intended as part of the tool must be secured so that they cannot create dangers during normal use by moving, or being released, out of the normal working constraints of the tool.		P
	It must not be possible to touch dangerous moving parts through dust collection openings after removing any detachable parts of the dust collection system.		P
	Rotating elements such as clutches, spindles, extensions etc., except core-bits, shall be: (EN 61029-2-6:2010)		P
	without projecting parts and be of round or hexagonal shape; (EN 61029-2-6:2010)		P
	or protected with a fixed or self-adjusting guard. (EN 61029-2-6:2010)		N/A
	<i>Test probe applied as in Figure Z102 to any guard fitted. (EN 61029-2-6:2010)</i>		N/A

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	The drill unit shall have provisions to be clamped or self-locking or screwed to the pillar in all working positions. The machine shall be so designed that unintentional loosening of the drill head from the pillar is prevented. (EN 61029-2-6:2010)		P
18.3	Tools provided with wheels must have adequate stability during transportation.		P
18.101	Diamond drills shall be provided with a stand that has the facility that allows mounting of the stand to the material to be drilled or to an appropriate support. (EN 61029-2-6:2010)		P
18.102	Drills which can be used for drilling overhead shall have means to incorporate a water collection device to minimize water spillage and prevent electrical shock. (EN 61029-2-6:2010)		N/A
	<i>Immediately after the drill is stopped, an a.c. test voltage according to Clause 15.2 of Part 1 is applied.</i> (EN 61029-2-6:2010)		N/A
	Test voltage(s) ..... V): (EN 61029-2-6:2010)		N/A
	<i>Leakage current not exceed 5,0 mA.</i> (EN 61029-2-6:2010)		N/A
18.103	Vacuum devices for fixing the drill shall be provided with a means that informs the user of the actual vacuum. (EN 61029-2-6:2010)		N/A
18.104	Vacuum devices for fixing the drill shall be able to withstand the forces during the drilling process including the situation of a blocked drill bit. (EN 61029-2-6:2010)		N/A
	<i>Then one of the following tests is performed:</i> (EN 61029-2-6:2010)		N/A
	<i>- During starting: The drill bit is blocked. Afterwards the tool is started three times.</i> (EN 61029-2-6:2010)		N/A
	<i>- During operation: The drill bit is subjected to a sudden stalling for 3 s by an appropriate device. During the test, the drill shall not become loose.</i> (EN 61029-2-6:2010)		N/A
19	MECHANICAL STRENGTH		
19.1	Guards shall be manufactured from either a) or b): (EN 61029-2-6:2010)		N/A
	a) steel having the following characteristics: <ul style="list-style-type: none"> <li>- <b>Ultimate tensile strength 350 N/mm<sup>2</sup></b></li> <li>- <b>Minimum thickness 1,5 mm</b></li> </ul> (EN 61029-2-6:2010)		N/A

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	b) Polycarbonate with a wall thickness of at least 3,0 mm or other plastic material having an impact strength equal or better than polycarbonate of at least 3,0 mm thickness. (EN 61029-2-6:2010)		N/A
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20	CONSTRUCTION		
20.8	Asbestos not used under any circumstances		P
20.20	Not applicable, because the risk associated with the recovery of the supply voltage is regarded as very low. (EN 61029-2-6:2010)		P
20.21	Tool provided with integral dust collection device, or		N/A
	external dust collection device		N/A
	If not practicable dust not thrown in the direction of the user		P
20.22	Tools intended to be connected to a water supply must either		P
	- be of class III, or		N/A
	- be of class II or of class I for use in combination with an isolating transformer, or		N/A
	- be of class II or of class I and provided with a PRCD. The PRCD must have a sensitivity of 10 mA or less. The PRCD must not be provided with a switch contact for the protective conductor, which opens, when the PRCD trips due to a residual current. The PRCD may be incorporated either	In the tool	P
	- in the tool, or		
	- in the cord, or		N/A
	- in the plug, or		N/A
	- in a separate control box with one or more socket outlets in accordance with EN 60309-2 with the earthing contact position 1 h.		N/A
	PRCDs incorporated in the cord, in the plug or in a separate control box must have a degree of protection against the ingress of water of at least IPX4.		P

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21	INTERNAL WIRING		
21.1	In case of doubt with regard to the insulation, an electric strength test must be carried out between the conductor and metal foil wrapped around the conductor insulation, a test voltage of 2000 V being applied for 15 min.		P
21.4	Insulating sleeves may be used to prevent such contact, provided that the sleeves withstand the tests specified for supplementary insulation and that the conductors or sleeves are not likely to be mislaid or lost during routine servicing and repair.		N/A
22	COMPONENTS		
22.1	Components must comply with the safety requirements specified in the relevant CENELEC standards as far as they reasonably apply.		P
22.2	Mains switches marked with individual ratings tested in accordance with EN 61058-1		P
22.5	Plugs and appliance inlets for safety extra-low voltage circuits or for frequencies other than 50 Hz of 60 Hz not interchangeable with plugs, connectors and appliance inlet complying with IEC 60083 or EN 60320-1.		N/A
22.9	Appliance couplers must comply with EN 60320-1.		N/A
23	SUPPLY CONNECTION AND EXTERNAL FLEXIBLE CABLES AND CORDS		
23.2	– polyvinyl chloride sheathed H05VV-F		N/A
	– rubber sheathed H05RR-F		N/A
	Supply cords of tools intended to be connected to a water supply must not be lighter than ordinary polychloroprene-sheathed flexible cord (code designation H05 RN-F).		N/A
23.3	Tools provided with plug complying with IEC 60083, EN 60309-1 and EN 60309-2		N/A
23.101	Power supply cords for diamond drills with water supply shall not be lighter than heavy polychloroprene flexible cord (code designation H07RN-F). (EN 61029-2-6:2010)	H07RN-F	P
24	TERMINALS FOR EXTERNAL CONDUCTORS		

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24.1	For the purpose of the requirements for power supply cords		P
	- it is not to be expected that two independent fixings will become loose at the same time;		P
	- conductors connected by soldering are not considered to be adequately fixed, unless they are held in place near to the termination, independently of the solder, but "hooking in" before soldering is, in general, considered to be a suitable means for maintaining the conductors of a power supply cord in position, provided the hole through which the conductor is passed is not unduly large.		N/A
	The terminals of a component (e.g. a switch) built into the tool - on the assumption that they comply with the requirements of this clause - may be used as terminals intended for external conductors.		N/A
	Switches having connecting leads (pig tails) are allowed if the connection point is within the handle or housing and the cord anchorage of the mains supply cable meets the requirements of 23.5.		N/A
C	ANNEX C		
C. 8.1	The explanation concerning safety extra-low voltage is not applicable.		N/A
	Addition: An accessible part is not considered to be live if:		N/A
	- the part is supplied from a safety isolating transformer, provided that		N/A
	- for a.c. the peak value of the voltage does not exceed 42,4 V;		N/A
	- for d.c. the voltage does not exceed 42,4 V, or		N/A
	- the part is separated from live parts by protective impedance.		N/A



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	In the case of protective impedance, the current between the part and the supply source must not exceed 2 mA for d.c. and its peak value must not exceed 0,7 mA for a.c., and moreover:		N/A
	- for voltages having a peak value over 42,4 V up to and including 450 V the capacitance must not exceed 0,1 $\mu$ F;		N/A
	- for voltages having a peak value over 450 V up to and including 15 kV the discharge must not exceed 45 $\mu$ C.		N/A
C.17.104	If the safety of the tool for any of the fault conditions specified in C17.103 depends on the operation of a miniature fuse-link complying with EN 60127-3, the test is repeated but with the miniature fuse-link replace by an ammeter.		N/A
	Rated fuse current (A) .....		N/A
	Measured current (A) .....		N/A
C. 25.1	Addition: The printed conductors of printed circuit boards must not be used to provide continuity of the protective earthing circuit.		N/A

<b>ZB</b>	<b>ANNEX ZB, SPECIAL NATIONAL CONDITIONS (EN)</b>	<b>N/A</b>
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<b>ZC</b>	<b>ANNEX ZC, NATIONAL DEVIATIONS (EN)</b>	<b>N/A</b>
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<b>ZD</b>	<b>ANNEX ZD, NATIONAL DEVIATIONS (EN)</b>	<b>N/A</b>
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