

ELECTRICAL LABORATORY- TEST REPORT
Automatic electrical controls for household and similar use-
Part 2-6: Particular requirements for automatic electrical pressure sensing
controls including mechanical requirements

Test Report N°	
Date of issue	15-09-2016
Sample date in	15-07-2016
Date of performance	15-07-2016 to 30-08-2016
Applicant	
Customer	
Sample description	Automatic Pump Controller
Sample Condition	OK
Customer reference	N/A
Trade mark / Manufacturer	
Model / Type / Reference	Pump Controller 90° Delivery
Ratings	220/240VAC, 8A, 50 Hz
Test method(s)	IEC 60730-2-6:2015 & IEC 60730-1:2015

Overall verdict

Pass

Fail

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60730-2-6	60730-1	Requirement - Test	Results - Remarks	Verdict
6		Classification		
		A control is classified		
	6.1	According to nature of supply		
	6.1.1	Control for a.c. only		P
	6.1.2	Control for d.c. only		N/A
	6.1.3	Control for a.c. and d.c.		N/A
	6.1.4	Control for Specific supplies or multiple supplies		N/A
	6.1.5	Battery powered control		N/A
	6.2	According to type of load to be controlled be each circuit of the control		
		A control having more than one circuit need not have the same classification for each circuit.		
	6.2.1	Circuit for a substantially resistive load with a power factor not less than 0,95.		N/A
	6.2.2	Circuit suitable for either a resistive load or for an inductive load with a power factor not less than 0,6 or a combination of both.		N/A
	6.2.3	Circuit for declared specific load.	Upto 2.0 HP Pump	P
	6.2.4	Circuit for a current less than 20 mA.		N/A
	6.2.5	Circuit for a.c. motor load whose characteristics are defined by the control manufacturer's declaration.		P
	6.2.6	Circuit for Pilot load.		N/A
	6.3	According to their purpose		
		A control may be classified for more than one purpose, in which case it is referred to as a multi-purpose control.		
	6.3.1	thermostat:		N/A
	6.3.2	temperature limiter;		N/A
	6.3.3	thermal cut-out:		N/A

60730-2-6	60730-1	Requirement - Test	Results - Remarks	Verdict
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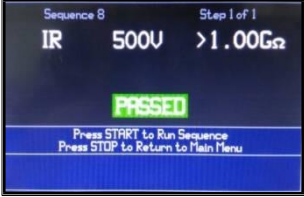

9	9.1	Provision for protective earthing		
	9.1	General requirements		
	9.1.1	Accessible metal parts, other than actuating members, of in-line cord, free-standing and independently mounted controls of class 0I and class I which may become live in the event of an insulation fault, shall be permanently and reliably connected to an earthing terminal		P
	9.1.2	Accessible metal parts, other than actuating members, of integrated and incorporated controls for class 0I and class I equipment which may become live in the event of an insulation fault shall have provision for earthing.		P
	9.1.3	Earthing terminals, earthing terminations and earthing contacts shall not be electrically connected to any neutral terminal.		P
	9.2	Class II and Class III controls shall have no provision for protective earthing.		N/A
	9.3	Adequacy of earth connections		
	9.3.1	General requirements		
		The connection between an earthing terminal, earthing termination or earthing contact, and parts required to be connected there to, shall be of low resistance.		P
	-	A current of 1,5 times the rated current, but not less than 25 A, and derived from an a.c. source with a no-load voltage not exceeding 12 V		P
60730-2-6	60730-1	Requirement - Test	Results - Remarks	Verdict

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	-	The voltage drop between the earthing terminal, earthing termination or earthing contact and the part is measured, and the resistance calculated from the current and this voltage drop. In no case shall the resistance exceed 0,1 Ω .	 <p style="text-align: center;">Measured Resistance: 48.8mΩ</p>	P
	9.3.2	Fixed wiring and methods X and M		
		Earthing terminals for the connection of fixed wiring or for non-detachable cords using methods X and M shall comply with the requirements of 10.1.		N/A
	9.3.3	External conductors		
		Earthing connections for external conductors shall not be made using screw less terminal.		P
	9.3.4	Size of accessible earthing terminals		
		Earthing terminals which are accessible in normal use shall, allow the connection of conductors having nominal cross-sectional areas of 2.5 mm ² to 6 mm ² inclusive and it shall be possible to loosen them without the aid of a tool.		N/A
	9.3.5	Size of non-accessible earthing terminals		
		Earthing terminal which are not accessible in normal use for external conductors shall be of a size equal to or larger than that required for the corresponding current- carrying terminal.		P
	9.3.6	Locking of earthing terminals		
		clamping means of earthing terminals for external conductors shall be adequately locked against accidental loosening.		P

60730-2-6	60730-1	Requirement - Test	Results - Remarks	Verdict
	9.4	Corrosion resistance		
		All parts of an earthing terminal shall be resistance corrosion		P
	9.4.1	Materials		
		The body of an earthing terminal shall be of brass, or other metal no less resistant to corrosion.		P
	9.4.2	Frames or enclosures of aluminium		
		The body of an earthing terminal is a part of a frame or enclosure of aluminium or aluminium alloy, precautions shall be taken to avoid the risk of corrosion resulting from contact between copper and aluminium or its alloys.		N/A
	9.5	Other requirements		
	9.5.1	Detachable parts		
		A detachable part of a control has an earth connection, this connection shall be made before any current-carrying connections are established when placing the part in position, and any current-carrying connections shall be separated before the earth connection is broken when removing the part.		N/A
	9.5.2	Incorporated control		
		an incorporated control is likely to be separated from its normal earthing means after mounting in the equipment for purposes of testing, setting or servicing while the equipment is energized, it shall be provided with an earthing connection.		N/A
	10	Terminals and terminations		
	10.1	Terminals and terminations for external copper conductors		
	10.1.1	Terminals for fixed wiring and for non detachable cords using attachment methods X and M		N/A

	13.1.3	The insulation resistance is measured with a d.c. voltage of approximately 500 V applied, the measurement being made 1 min after application of the voltage.		P
	13.1.4	The insulation resistance shall not be less than show in Table 11 (13.1 of the previous edition).	 Measured value: >1.00GΩ	P
28	Guidance on the use of electronic disconnection			N/A