



ENEC

NO3372



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Order No.

245268

Licence for use of the here shown ENEC conformity mark :



Based on:

**Agreement on the use of a commonly agreed Mark on Conformity for equipment complying with European Standards as of 12 November 1991 (in short ENEC Agreement), as revised latest by ENEC group April 16. 1997.**

Nemko hereby grants the following manufacturer as licensee the right to affix this ENEC mark on the product(s) specified below.

Product	Thermostats, for incorporation
Applicant	Honest-Well Co. Ltd 3FL, No. 450, Sec. 2, Chung-San Rd., Chung-Ho District New Taipei City Taiwan
Manufacturer	Honest-Well Co. Ltd 3FL, No. 450, Sec. 2, Chung-San Rd., Chung-Ho District New Taipei City Taiwan
Factory	Light Country (Changshu) Co., Ltd. No. 88, Ningbo Road, Grade of Hi-Tech Industry Changshu China <input type="checkbox"/> See next page(s)
Ratings	10A 250V AC or 15A 125V AC or 16A 250V AC
Trade mark	LC
Model / Type Ref.	T24
Principal characteristics	Bimetallic thermostat, type 1B, pattern no. 1, category D, normal situations, PTI 175, tab terminals, IP00 <input type="checkbox"/> See next page(s)
A sample of the product was tested and found to be in conformity with	CONT EN 60730-1:2011 EN 60730-2-9:2010
The conditions for this licence are that the ENEC-marked products conform with the applicable Standard(s) as stated in the Test Report with Order No:	245268 This certificate replaces the certificate issued on 09-12-2013, due to the correction of the misprint
and that Articles 8 and 9 of the ENEC Agreement are fulfilled by the manufacturer. The mark signifies the compliance of the completed products with these conditions. Further information is given in the attached Annex, which forms an obligatory part of this licence document. This licence has been issued under the presumption and conditional on the fact that the licensee holds all necessary legal rights with regard to the product presented for testing and certification.	
Additional model(s)	<input type="checkbox"/> See next page(s)

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Certification Department

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Clause	Requirement - Test	Result - Remark	/erdic
<b>5.</b>	<b>RATING</b>		
5.1	Rated voltage $\leq$ 660 V	125V, 250V	P
5.2	Rated current $\leq$ 63 A	10A(250V), 15A(125V), 16A(250V)	P
<b>6.</b>	<b>CLASSIFICATION</b>		
6.1	Nature of supply	AC	P
6.2	Type of load	Substantially resistive	P
6.3	Purpose	Thermostat 6.3.1	P
6.4	Features of automatic action	Type 1.B	P
6.5	Degree of protection and control pollution situation	Normal pollution	P
6.6	Method of connection	Flat push-on connector	P
6.7	Ambient temperature limits (switch head) Tmin (°C); Tmax (°C)	T140 for Phenolic material T210 for PPS material (See also page two)	P
6.8	Protection against electric shock	IP00 not for connection of protective earth	P
6.9	Circuit disconnection or interruption	Micro disconnection	P
6.10	Number of cycles of actuation (M) of each manual action		N
6.11	Number of automatic cycles (A) of each automatic action	1E4 16A 250V 1E5 10A 250V 1E5 15A 125V	P
6.12	Temperature limits of the mounting surface of the control (°C or K)	Same as ambient	P
6.13	Value of the proof tracking index (PTI) for the insulation material used	175V	P
6.14	Period of the electrical stress across insulating parts supporting live parts between live parts and earthed metal	Long Period	P
6.15	Construction	Incorporated control	P
6.16	Ageing requirements (Y) of the equipment in which, or with which, the control is intended to be used		N
6.17	Use of thermistor		N
6.18	Use of software class		N

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Clause	Requirement - Test	Result - Remark	/erdic
	20- details of any special conductors which are intended to be connected to terminals for internal conductors; clause 10.2; method D	<b>If the thermostats are intended to be used in an environment with higher temperatures than 70°C, suitable cables/cords must be used. PVC cables are not allowed</b>  <b>The conductors need to be special prepared for termination.</b>	P
	21- maximum temperature of terminals for conductors, if higher than 85 °C; clause 14; method X	<b>T140 thermostats: 145°C</b> <b>T210 thermostats: 215°C</b>	P
	22- temperature limits of the switch head, if Tmin lower than 0 °C, or Tmax other than 55 °C; clause 6.7, 14.5, 14.7, 17.3; method C	<b>T140 for Phenolic material</b> <b>T210 for PPS material</b> <b>(See also page two)</b> <b>For incorporation; not marked</b>	P
	23- temperature limits of mounting surfaces (Ts) if more than 20 K above Tmax; clause 6.12.2, 14.1, 17.3; method C		N
	24- classification of control according to protection against electric shock; clause 6.8; method X	<b>IP00</b> <b>not for connection to earth</b>	N
	25- for Class II controls, the symbol for Class II construction; clause 7.3; method C		N
	26- number of cycles of actuation (M) for each manual action; clause 6.10; method X		N
	27- number of automatic cycles (A) for each automatic action; clause 6.11; method X	<b>10A 250V AC, 1E5 cycles</b> <b>15A 125V AC, 1E5 cycles</b> <b>16A 250V AC, 1E4 cycles</b>	P
	28- ageing period (Y) for controls with Type 1M or 2M action; clause 6.16; method X		N
	29- type of disconnection or interruption provided by each circuit; clause 6.9; method X	<b>Micro disconnection</b>	P
	30- PTI of materials used for insulation; clause 6.13, 6.15.4, Table 20.1; method X	<b>175V</b>	P
	31- method of mounting control; clause 11.6; method D	<b>Surface mounting</b>	P
	31a-method of providing earthing of control; clause 7.4.3, 9; method D		N
	32- method of attachment for non-detachable cords; clause 10.1, 11.7; method D		N
	33- intended transportation condition of control; clause 16.1; method X		P

Clause	Requirement - Test	Result - Remark	Jedic
	34- details of any limitation of operating time; clause 14, 17; method D		N
	35- period of electric stress across insulating parts; clause 16.14; method X	Long	P
	36- limits of activating quantity for any sensing element over which micro-disconnection is secure (see also Annex H) clause 11.3.2; method X	According to T-classification	P
	37- minimum and/or maximum rates of change of activating quantity, or minimum and/or maximum cycling rates for a sensing control; clause 4, 15, 17; method X		N
	38- values of overshoot of activating quantity for sensing controls which are necessary for correct action, or which can be used for test purposes; clause 17; method X		N
	39- Type 1 action or Type 2 action clause 6.4; method D	Type 1	P
	40- additional features of Type 1 or Type 2 actions; clause 6.4.3; method D	Type 1.B	P
	41- manufacturing deviation and condition of test appropriate to deviation; clause 11.4.3, 15, 17.4; method X		N
	42- drift; clause 11.4.3, 15, 16.2.4; method X		N
	43- reset characteristics for cut-out action; clause 6.4; method D		N
	44- if a control is either to be hand-held or is intended for a hand-held equipment; clause 21; method X		N
	45- any limitation to the number or distribution of flat push-on receptacles which can be fitted clause 10.2.4.4; method D		P
	46- operating sequence for controls with more than one circuit, if significant; clause 11.4.3, 15; method D		N
	47- extent of any sensing element; clause 2.8.1; method D	The whole thermostat is considered to be the sensing element	P
	48- operating value (or values) or operating time; clause 2.3.11, 2.3.12, 6.4.3.10, 11, 14, 15.6, 17; method D	10A 250V AC, operating values 50-200°C (intervals of 5°C) 15A 125V AC, operating values 50-200°C (intervals of 5°C) 16A 250V AC, operating values 50-200°C. (intervals of 5°C)	P

Clause	Requirement - Test	Result - Remark	Verdict
10.2.2	Terminals suitable for their purpose inspection		N
10.2.3	Soldered terminals		
	– soldering not the only means to maintain conductor in position, or		N
	– barriers provided to prevent reduction of creepage distances and clearances between live parts and other metal parts by more than 50% if conductor breaks from soldered point		N
10.2.4	Flat push-on connectors		
10.2.4.1	Dimension of tabs		
	– measured (mm x mm)	<b>6,3mm * 0,8mm</b>	P
	– compliance with Fig. 14 or 15	<b>fig 14</b>	P
	– other dimensions allowed (mm x mm)	<b>4,3mm * 0,8mm</b>	P
	– depression or holes optional, if any complying with the dimensional requirements		N
	– polarized acceptance of receptacles allowed (see Fig. 16)		N
10.2.4.2	Maximum temperature of tabs (temperatures to be measured during tests of Cl. 14; see remarks EN 60 730-1)	<b>Ref. Clause 14</b>	
	– copper, copper alloys bare or tinned $\leq 140$ °C		N
	– copper, copper alloys, silver plated or nickel plated $\leq 200$ °C		N
	– steel, stainless or nickel plated $\leq 360$ °C		N
10.2.4.3	Mechanical strength of tabs; test no displacement, no damage		
	– tab size; axial push (N); axial pull (N)	<b>6,3mm 80N 70N</b>	P
	– tab size; axial push (N); axial pull (N)	<b>4,8mm 60N 50N</b>	P
	– tab size; axial push (N); axial pull (N)		N
10.2.4.4	Space between tabs; applying appropriate receptacles on each tab		
	– no strain, no distortion to any of these tabs or adjacent parts		P