

# CERTIFICATE OF COMPLIANCE

Certificate Number E98133  
Report Reference E98133-19950217  
Date 2022-September-27

Issued to: EVEREL GROUP SPA  
Via Cavour 9  
Valeggio Sul Mincio Vr 37067 IT

This is to certify that  
representative samples of SWITCHES, APPLIANCE AND SPECIAL USE -  
COMPONENT  
See Addendum Page for Product Designation(s).

Have been evaluated by UL in accordance with the component requirements in the Standard(s) indicated on this Certificate. UL Recognized components are incomplete in certain constructional features or restricted in performance capabilities and are intended for installation in complete equipment submitted for investigation to UL LLC.

Standard(s) for Safety: UL 1054, Standard For Special-Use Switches  
CSA C22.2 NO. 55, Special Use Switches

Additional Information: See the UL Online Certifications Directory at  
<https://iq.ulprospector.com> for additional information

This Certificate of Compliance indicates that representative samples of the product described in the certification report have met the requirements for UL certification. It does not provide authorization to apply the UL Recognized Component Mark. Only the Authorization Page that references the Follow-Up Services Procedure for ongoing surveillance provides authorization to apply the UL Mark.

Only those products bearing the UL Recognized Component Mark should be considered as being UL Certified and covered under UL's Follow-Up Services.

Look for the UL Recognized Component Mark on the product.



Bruce Mahrenholz, Director North American Certification Program

UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements

**Models:**  
 Special-Use Switches, Component.

Cat. Nos.	Electrical Rating	Temp. (°C)	POL/THR	PP	ENDUR	SPCOA
USL, CNL, Series TECNO	15 A, 125 V ac	65	1/1	--	6K	--

Model Identification Code (Nomenclature Breakdown):

The following Model Identification Code applies to all TECNO Series switches.

Example:	TECNO 11 1 3 1 1 2 3 000 W <u>Z</u> <u>Y</u> <u>X</u> <u>W</u> <u>V</u> <u>U</u> <u>T</u> <u>S</u> <u>R</u> <u>Q</u>
Z = Series Identification - Always TECNO	_____
Y = Type of Terminals (Tab, PC Board, Soldered)	_____
X = Scheme (On-Off or momentary action)	_____
W = Rating	_____
V = Body color (Factory Use)	_____
U = Rocker color (Factory use)	_____
T = Symbology color	_____
S = Symbology	_____
R = Special Execution	_____
Q = Optional	_____

*B. Mahrenholz*

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component, Appliance Switches: TECNO series

Model	Load	Amp	Volt	Hz	Temp C	Pol/ Thr/ (Cir)	Endurance		IP	DIS	SPCA	ed
							30C	55C				
TECNO f/b letters or numbers	GP	15	125	50/60	85/55	1/ 1/ (1.2)	-	1E4	40	Full	8	2021

## EXPLANATION OF COLUMN HEADINGS

Model - Cat. No. - Identifier used by the manufacturer for a specific switch Model or Catalog number.

f/b - followed by, ww/o - With or without.

Load - identify the load according the Testing. R= resistive, RM= resistive and motor, RC= resistive and capacitive, L=tungsten lamp load, Spc= specific load, mA =load below 20mA, SpcL, SpcT = specific lamp load such as US L or T, I= inductive, SpcM= specific motor rating, TV= television, GP= general purpose, GPM= general purpose and motor, GPhp= general purpose and horse power.

Amps - the steady state amp value of the switch. Per pole value may be marked "PP" and is verified by the circuit connection.

Volt - the Voltage (RMS) value.

Hz - the Frequency or range such as (50-60).

Temp - The declared operating temperature of the switch.

Pol/Thr/Cir - The number of Poles (Pol) and Throws (Thr) represented by the switch construction (where "M" indicates multiple poles (more than 2)). The circuit (Cir) is identified by a code explained in the standard and appendix pages (Table 2 of 61058-1).

IP - Degree of protection against ingress of solid objects and dust, and harmful ingress of water.

DIS - Disconnect air gap across open contact, electronic is indicated by "e", micro indicated "micro", FULL indicated with a measurement in mm.

30C cycle - the number of Endurance cycles completed with a temperature rise less than 30C (on terminals).

55C cycle - the number of Endurance cycles completed with a temperature rise less than 55C (on terminals).

SPCA - Identifies Special Conditions of Acceptability that must be considered in the end product. A list of typical SPCOAs (represented with a number) are found in the WOYR2 guide card. Conditions other than the typical are represented with a letter and described in the specific volume and section follow-up procedure description.

ed - The switch evaluation was completed to the indicated UL standard revision date (such as 2009).

USR - Products designated USR have been investigated using US requirements as noted in the Test Record.

CNR - Products designated CNR have been investigated using Canadian requirements as noted in the Test Record.

Switch Declaration: Use table for general and indicate differences below.

Model	TECNO		
Ambient Temp. C	See table page 1	Type Reference	C.T.
Total Cycles	See table page 1	Glow Wire Temp. C	850
IP rating	See table page 1	PTI	250
Electric shock Class	II	Over Voltage Category	II
Pollution degree Macro	2	Impulse withstand Volt	2500
Pollution degree Micro	2	Disconnect	See table page 1
Actuation	Rocker	Test Circuit	1.2

Terminal	Type	Wire range	Flexible/Rigid	Wire type	Prepared or Unprepared	Specific test amps
COM, NO	QC terminal 4.8X0.8 6.3X0.8  Solder terminal Dia. 2.6x0.8	0.75- 1.5 mm <sup>2</sup>	Flexible	Stranded	Prepared, Unprepared	15
COM, NC	QC terminal 4.8X0.8 6.3X0.8  Solder terminal Dia. 2.6x0.8	0.75- 1.5 mm <sup>2</sup>	Flexible	Stranded	Prepared, Unprepared	15
0, 1	QC terminal 4.8X0.8 6.3X0.8  Solder terminal Dia. 2.6x0.8	0.75- 1.5 mm <sup>2</sup>	Flexible	Stranded	Prepared, Unprepared	15

## NOMENCLATURE:

*TECNO	1	1	1	15AGP 125Vac T85/55	1	0	0	0	0
I	II	III	IV	V	VI	VII	VIII	IX	X

I	Model TECNO
II	Body and rocker shape 1 - Body with lateral openings and rocker with two colors and marking make by mould 2 - Body without openings and rocker with two colors and marking make by mould 4 - Body with openings and rocker with two colors 5 - Body without openings and rocker with two colors 7 - Body with openings and rocker with one color 8 - Body without openings and rocker with one color
*III	Terminal 1 - Tab 4.8x0.8 mm 2 - Solder Terminal 4 - Tab 6.3x0.8 mm A - Pin Terminal X - Combination of above
*IV	Electrical scheme 1 - 1.2 bistable 4 - 1.2 Momentary - NO A - 1.2 Momentary - NC
*V	Rating 15AGP 125Vav T85/55
*VI	Body Color Any Letter or Number
*VII	Rocker Color Any Letter or Number
*VIII	Rocker Marking Any Letter or Number X - Custom
*IX	Customization (no impact on construction and safety) Any Letter or Number
*X	Plastic material None - -Standard plastic material W - Plastic with GWIT 775°C

\*

## FIGURE &amp; ILLUSTRATIONS:

The following Figures & Illustrations are included in this Report.

Figure and Illustration Index	
Ill. 1	Base or fixing panel
Ill. 2	Rocker
Ill. 3	Switch Body
Ill. 4	Side tab 4.8 x 0.8 with Ag Pad
Ill. 5	Side tab 6.3 x 0.8 with Ag Pad
Ill. 6	Side solder tab with Ag Pad
Ill. 7	Spring trip
Ill. 8	Side tab 4.8 x 0.8
Ill. 9	Side solder tab
Ill. 10	Button spring
Fig. 1	Front view
Fig. 2	Back view
Fig. 3	Side view
Fig. 4	Inside view

## TECHNICAL CONSIDERATIONS (NOT FOR FIELD REPRESENTATIVE'S USE):

Use - The switches covered by this Report are for use only in complete equipment where the suitability of the combination is determined by UL.

STANDARD CONDITIONS OF ACCEPTABILITY: (See Section General or LIS guide Page)

SPECIAL CONDITIONS OF ACCEPTABILITY: (See section General or LIS guide Page)

Specific Conditions of Acceptability should be identified in page 1 column SPCA. Below are the conditions that apply to this description, items 1 to 8 or unique conditions are identified by alphabetical letter.

SpCoA applicable.

8. These switches were investigated for the IP rating when mounted in a representative end-product enclosure as defined by the manufacturer. The suitability of the protection from solid objects or water for parts enclosed in the end product shall be considered in the end-use investigation.

## CONSTRUCTION DETAILS:

Corrosion Protection - All ferrous metal parts are protected against corrosion by plating, painting, galvanizing or equivalent.

Spacing - Spacing between uninsulated live-metal parts of opposite polarity and also those parts and dead-metal parts, including openings for mounting screws have been evaluated to the requirements of the standard.

Clearance and Creepage distance - These spacings have been judged on the basis of the requirement in Table 12-14. The requirements are based on the following parameters.