

File E42016  
Project 4790190871

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Report

On

COMPONENT - SWITCHES, APPLIANCE AND SPECIAL USE

CROUZET AUTOMATISMES S A  
Valence, France

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## DESCRIPTION

## PRODUCT COVERED:

USR, CNR Component, Appliance Switches: (mechanical micro switch)

Model	Load	Amp (A)	Volt	Hz	Temp °C	POL / THR / CIR	ENDUR		IP	DIS	SPCA
							30°C	55°C			
83139 f/b 0, 1, 2 or 5	GP	5	125/250	50/60	85	1/2/ 2.2	6K	10K	66/67	μ	09N01 14N03
83139 f/b 0, 1, 2 or 5	DC	5	48	DC	85	1/2/ 2.2	6K	6K	66/67	μ	09N01 14N03

Note: Product marking: part numbers may be prefixed by "U"

Basic model 83139 f/b 0, 1, 2 or 5 can be f/b 00 through 99, with or without Suffix SP or SF 0000 through 9999. The suffix indicates variations which would not affect the electrical or mechanical function of the switch.

## 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), or "DC".

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" or " $\mu$ ", 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.

Products designated USR have been investigated using requirements contained in UL Standard for Switches for Appliance, UL 61058-1.

Products designated CNR have been investigated using requirements contained in Canadian Standard CAN/CSA-C22.2 No. 61058-1.

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

Model	Series 83139		
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	Material group	II
Electric shock Class	I	Over Voltage Category	II
Pollution degree Macro	3	Impulse withstand Volt	2500
Pollution degree Micro	2	Disconnect	See table page 1
Actuation	Linear (push-button)	Test Circuit	See table page 1

Terminal	Type	Wire range	Flexible/Rigid	Wire type	Prepared or Unprepared	Specific test amps
1, 2, 3, 4	Fixed wires or cables	0.75 mm <sup>2</sup>	Flexible	Solid/stranded	Unprepared	5

#### FIGURES & ILLUSTRATIONS:

The following Figures & Illustrations are included in this Report.

Figure and illustrations:		
FIG. 1		Overall View
ILL. 1		Internal 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 unique conditions that apply to this description, which are identified by an alphabetical letter.

A. reserved for future use

## CONSTRUCTION DETAILS:

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

Spacing - Creepage and Clearance measurements were conducted for base model 83133xxx in E42016, Vol. 2, Sec. 1, dated 2016-02-18. This complete R/C switch is then put inside a plastic enclosure and the terminal side is fitted with leads or cable and sealed with potting compound. Since all internal switch materials/dimensions remain the same, additional spacing measurements are not applicable for the switches in this report.

Marking - for common type switches the markings on the switch body consist of the items (a) to (i) as noted below, at least (b) and (d) (other markings shall be on the smallest shipping package or documentation).

- a. Manufacturer's Name or Trade Mark (as described in the UL report)
- b. Type reference
- c. Ambient temperature limits other than T55
- d. Electrical ratings (rated voltage or rated voltage range, rated current)
- e. Number of operating cycles other than 1E4
- f. Circuit disconnection
- g. Factory code (as described in the UL report ... if more than one location)
- h. Terminal identification unless they are self-evident, Earthing terminal, required installation.
- i. The UL Recognized Component Mark and when applicable Recognized Component Mark for Canada

Marking is provided by Ink-print or laser or mold engraving.