File E42016 Project 4788981413

June 19, 2019

REPORT

on

Appliance and Special Use - Component

Crouzet Automatismes S A Valence

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

						Pol/	Endur	ance			
					Temp	Thr/					
Model	Load	Amp	Volt	Hz	С	(Cir)	30C	55C	IP	DIS	SPCA
831690,	GP	8	125-	50/60	80	1/1	-	10k	67	μ	А, В
83581U,			250			or 2					
033011						(1.2 or					
						2.2)					
	hp	1/4	125-	50/60	55	1/1	6K	-	67	μ	А, В
		hp	250			or 2					
						(1.2					
						or					
	DM	0(2)	105	EO / CO	0.0	Z.Z)		1 0 1-	<u> </u>		
	RM	8(2)	250	50/60	90	1/1	-	IUK	67	μ	А, В
			230			(1 2)					
						or					
						2.2)					
	RM	6(1)	125-	50/60	90	1/1	-	50k	67	μ	А, В
			250			or 2					
						(1.2					
						or					
921604	CD	5	125_	50/60	00	2.2)	_	101-	67	11	7 D
031094	GF	5	250	30700	00	1/1	_	IUK	07	μ	A, D
			200			(1.2					
						or					
						2.2)					
	hp	1/10	125-	50/60	55	1/1	6K	-	67	μ	А, В
		hp	250			or 2					
						(1.2					
						or					
	DM	5(1)	125_	50/60	9.0	Z.Z)		501-	67	11	λD
	L'IN	J(1)	250	20/00	90	\perp/\perp		JUK	07	μ	А, В
			200			(1.2					
						or					
						2.2)					

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						Pol/	Endur	ance			
					Temp	Thr/					
Model	Load	Amp	Volt	Hz	С	(Cir)			IP	DIS	SPCA
831698,	GP	1	125	50/60	80	1/1	-	10K	67	μ	Α,
831699,						or 2					в, С
835818,						(1.2					
835819						or					
						2.2)					
	RM	5(1)	125-	50/60	90	1/1	-	50K	67	μ	Α,
			250			or 2					в, С
						(1.2					
						or					
						2.2)					

 Note 1: Product marking: part numbers may be prefixed by "U"

Basic model 83169 f/b 0 through 9 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.basic model 83581 f/b 0 through 9 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.

Note 2: rating or 1/4 and 1/10 hp have been taken over from existing certification to UL 1054. There is nothing changed on the switch.

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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.

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Products designated USR have been investigated using requirements contained in UL Standard for Switches for Appliance, UL 61058-1 edition 5 and UL 61058-1-1 edition 1.

Products designated CNR have been investigated using requirements contained in Canadian Standard CAN/CSA-C22.2 No. 61058-1:17 and CAN/CSA-C22.2 No. 61058-1-1:17.

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

Model	Series 83169, 83581		
Ambient Temp. C	See table page 1	Type Reference	С.Т.
Total Cycles	See table page 1	Glow Wire Temp. C	850
IP rating	See table page 1	Material group	IIIa
Electric shock Class	II	Over Voltage Category	II
Pollution degree	3	Impulse withstand	2500
Macro		Volt	
Pollution degree	1	Disconnect	See table
Micro			page 1
Actuation	Linear (push-	Test Circuit	See table
	button)		page 1

Terminal	Туре	Wire	Flexible/	Wire type	Prepared or	Specific
		range	Rigid		Unprepared	test amps
1, 2, 4	Fixed	Table	Flexible	Solid/stranded	prepared	N/A
	wires or	4				
	cables					

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NOMENCLATURE:

83169	0	00	SP	0000
I	II	III	IV	V

I	Basic model
II	0 through 9, different actuator force and design
III	00 through 99, different function and connections
IV	SP or SF - customer specified, not safety relevant
V	0000 through 9999 - customer specified, not safety
	relevant

Details refer to Ill. 1.

FIGURE & ILLUSTRATIONS:

The following Figures & Illustrations are included in this Report.

Figure	
Fig. 1	Overall View of 83169
Fig. 2	Internal view of 83169
Ill. 1	Switch specification

Model Differences:

This model employs a Cat No. 83170 switch which is snapped in an additional enclosure and sealed by potting, and whole switch 83169 are provided with leads or cable.

831694 employs 831704 831698 employs 831708	831690	employs	831700
831698 employs 831708	831694	employs	831704
	831698	employs	831708
831699 employs 831709	831699	employs	831709

Model 83581, this is outer metal plunger over a model 83169 with plastic actuator

835810	employs	831690
835811	employs	831690
835818	employs	831698
835819	employs	831698

Model Differences: refer to Ill. 1.

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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 a alphabetical letter.

- A. The switch provides basic insulation which shall be ensured in end use product.
- B. IP67 testing was completed on the complete switch without mounting in an end product. To ensure IP67 the switch terminals to the end product enclosure shall be evaluated in the end-use product testing.

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		range	Rigid		Unprepared	test amps
1, 2, 4	Fixed	Table	Flexible	Solid/stranded	prepared	N/A
	wires or	4				
	cables					

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