16/12/2011 www.crouzet.com



83160 Standard 831600 Part number 83160006



- Nominal ratings up to 16 A / 250 VAC
- Self-cleaning contacts
- 3 mm contact gap for type 83 160 6
- High DC switch rating for type 83 160 6 SP 3697
- Choice of actuators
- Approvals NF UL (except 83 160 6 SP 3697)

	Туре	Function	Connections
83160006	Standard 831600	I (changeover)	W3
MADE TO ORDER	Standard 831600	I (changeover)	W2 - W6 - X1 *
MADE TO ORDER	Standard 831600	R (normally closed)	W2 - W3 - W6 - X1 *
MADE TO ORDER	Standard 831600	C (normally open)	W2 - W3 - W6 - X1 *
83160301	Reduced force 831603	I (changeover)	W3
MADE TO ORDER	Reduced force 831603	I (changeover)	W2 - W6 - X1 *
MADE TO ORDER	Reduced force 831603	R (normally closed)	W2 - W3 - W6 - X1 *
MADE TO ORDER	Reduced force 831603	C (normally open)	W2 - W3 - W6 - X1 *
83160401	Low force 831604	I (changeover)	W3
MADE TO ORDER	Low force 831604	I (changeover)	W2 - W6 - X1 *
MADE TO ORDER	Low force 831604	R (normally closed)	W2 - W3 - W6 - X1 *
MADE TO ORDER	Low force 831604	C (normally open)	W2 - W3 - W6 - X1 *
MADE TO ORDER	3 mm contact gap 831606	I (changeover)	W3
MADE TO ORDER	3 mm contact gap 831606	I (changeover)	W2 - W6 - X1 *
MADE TO ORDER	3 mm contact gap 831606	R (normally closed)	W2 - W3 - W6 - X1 *
MADE TO ORDER	3 mm contact gap 831606	C (normally open)	W2 - W3 - W6 - X1 *
MADE TO ORDER	High DC switch rating 831606 SP 3697	I (changeover)	W3
MADE TO ORDER	High DC switch rating 831606 SP 3697	I (changeover)	W2 - W6 - X1 *
MADE TO ORDER	High DC switch rating 831606 SP 3697	R (normally closed)	W2 - W3 - W6 - X1 *
MADE TO ORDER	High DC switch rating 831606 SP 3697	C (normally open)	W2 - W3 - W6 - X1 *

Electrical characteristics

Rating nominal / 250 VAC (A)	16
Rating thermal / 250 VAC (A)	20
Rating nominal / 250 VDC (A)	-
Rating thermal / 250 VDC (A)	-
Mechanical characteristics	
Maximum operating force (N)	4
Min. Release force (N)	1,5
Maximum total travel force (N)	6.5
Max. permitted overtravel force (N)	20
Rest position max. (mm)	15,6
Operating position (mm)	14,8 ^{±0,3}
Maximum differential travel (mm)	0,3
Min. overtravel CRA (mm)	1,3
Ambient operating temperature (°C)	-20
Mechanical life for 2/3 CRA (operations)	10 ⁷
Contact gap (mm)	1,2
Weight (g)	6,7

Additional specifications

Components

Material

- Case: 83 160 0, 3, 4 and 6 polyamide UL94VO.

16/12/2011 www.crouzet.com

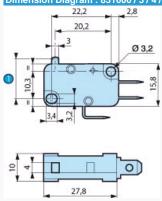
- Contacts: nickel silver

Lever

- stainless steel

- polyamide roller Approvals: NF

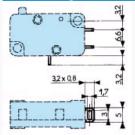
Dimension Diagram: 831600/3/4/6



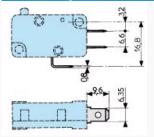
Legend

OL = 13.2 max.

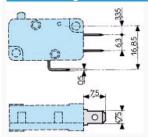
Dimension Diagram : W2 solder



Dimension Diagram : W3 for 6.35 mm clips

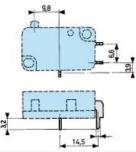


Dimension Diagram : W6 for 4.75 mm clips



Dimension Diagram : X1 printed circuit board

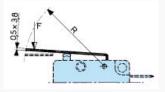
16/12/2011 www.crouzet.com



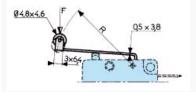
Dimension Diagram : Fixing position



Dimension Diagram: 153 AX



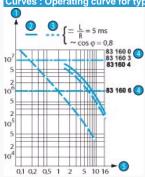
Dimension Diagram : 153 EX



: Single break changeover switch



Curves: Operating curve for types 831600 / 3 / 4 / 6



Nº	Legend
1	Number of cycles
2	Resistive circuit
3	Inductive circuit
4	Mechanical life limit
5	Current in Amps

16/12/2011 www.crouzet.com

Part numbers for standard	actuators									
	70 545 0 / 153 A R29.7			70 545 0 / 153 E R15,8		70 545 0 / 153 E R28.7				
Actuators		Flat 153 AX R29.7			Roller 153 EX R15,8		Roller 153 EX R28.7			
				8		6				
	53	83 160 0	83 160 3	83 160 6	83 160 0	83 160 3	83 160 6	83 160 0	83 160 3	83 160 6
Fixing positions	mm	15.3 ±0.5	15.3 ±0.5	14.4 ±0.6	20.5 ±0.45	20.5 ±0.45	20.3 ±0.55	20.5 ±0.65	20.5 ±0.65	19.6 ±0.75
Operating force - max.	N	2	1	2.6	4	2	5	2	1	2.6
Release force - min.	N	0.4	0.25	0.3	1	0.55	0.75	0.4	0.25	0.3
Pre-travel - max.	mm	2.5	2.5	3.1	1.2	1.2	1.4	2.5	2.5	3.1
								-	-	
Differential travel max.	mm	0.6	0.8	1.5	0.3	0.4	0.7	0.6	0.8	1,5

2-pole 153 A2** R15,9

Dummy roller F** R24.3

Telescopic plunger 153L** (operating temperature 125°C max.)

Flexible with roller 153 B**

153 V**











** Please consult us

Special adaptations

- Special leversApprovals: NF UL for 83 160 6 SP 3697