SERIES 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

TO 6 (4) A 250 V AC



PRODUCT FEATURES

- 100 million times proven switching principle with longer life endurance with 100 000 mechanical switching cycles
- Fastening by round nut M12
- Excellent actuating characteristic
- Variant for snapping on customized pushbuttons

ON REQUEST

- Higher power with 6 (6) A 250 V AC
- Other connection types
- Cable assembly

Mechanical life endurance		10E4
Contact resistance (new condition)		< 100 mOhm (1 A 12 V DC)
Insulation resistance (new condition)		> 100 MOhm (500 V DC)
Voltage strength at 250 V		1 500 V function insulation / basic insulation 3 000 V reinforced insulation 500 V small contact distance
Proof tracking		250 PTI
Insulation spacing		acc. to EN 61058 for reinforced or double insulation
Protection type		IP 40
Ambient temperature		connection side -20 °C ... +100 °C actuating side -20 °C ... +55 °C
Flammability		UL 94 V-2
Heat and fire resistance		850 °C (category D)
Material	actuator housing connections	PA PA glass fiber-reinforced / PA silver-plated
Plug force of the terminals		≤ 80 N
Approval marks		/ /
Suitable for appliances of protection class II		







SERIES 1840 - SINGLE AND DOUBLE-POLE PUSHBUTTON SWITCHES

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single-pole



	Actuator color / printing	Housing color	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 5E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	6 A 125 - 250 V AC 1/8 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
ON/OFF switch (SPST)													
1841.1101			●		●	●			4.8	≥ 3	Ag		●
1841.6101			●		●	●			4.8	≥ 3	Ag	snap-on actuator (caps see page 112)	●
Normally closed contact (SPNC)													
1841.1301				●			●		4.8	≥ 3	Ag		●
Normally open contact (SPNO)													
1841.1201				●			●		4.8	≥ 3	Ag		●
Switch (SPDT)													
1843.1101			●		●	●			4.8	≥ 3	Ag		●
Changeover switch (SPDT momentary)													
1843.1201				●			●		4.8	≥ 3	Ag		●



double-pole

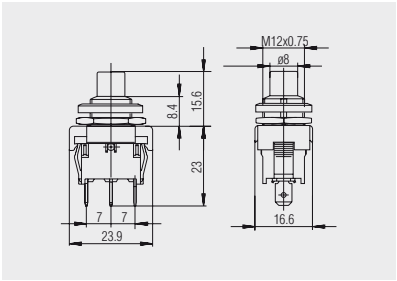
	Actuator color / printing	Housing color	6 (4) A 250 V AC 5E4	6 (2) A 250 V AC 5E4	6 A 250 V AC 1/2 HP	6 A 125 V AC 1/4 HP	6 A 125 - 250 V AC 1/8 HP	Connection type	Connection description	Contact distance in mm	Contact material	Miscellaneous	Stock version
ON/OFF switch (DPST)													
1842.1101			●		●	●			4.8	≥ 3	Ag		●
1842.6101			●		●	●			4.8	≥ 3	Ag	snap-on actuator (caps see page 112)	●

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TO 6 (4) A 250 V AC



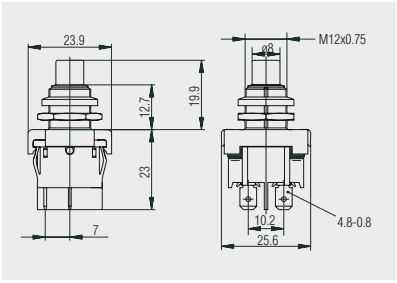
Basic types 1841 and 1843
single-pole



Quick-connect terminal 4.8



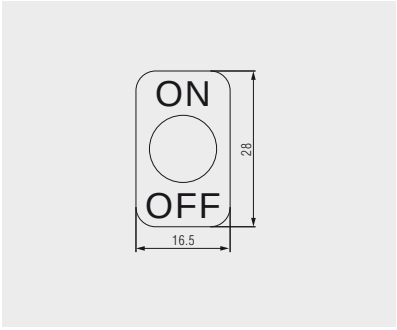
Basic type 1842
double-pole



Quick-connect terminal 4.8



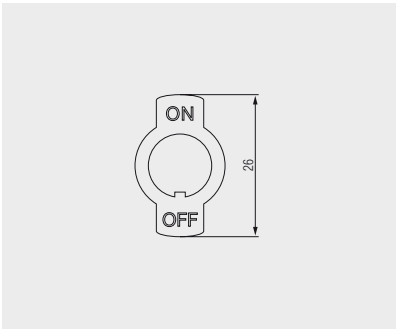
Identification plate
240.001.011



Identification plate of aluminum for plugging on with black inscription “ON” and “OFF”



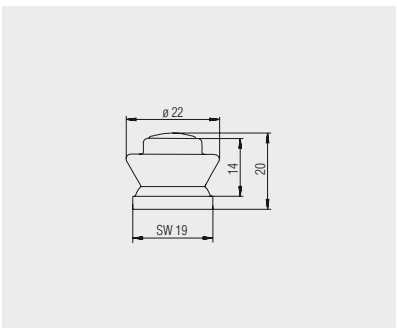
Identification plate
240.002.011



Identification plate of CuZn nickel-plated for plugging on as well as with twist protection and stamped inscription “ON” and “OFF”



Protection cap
343.002.023



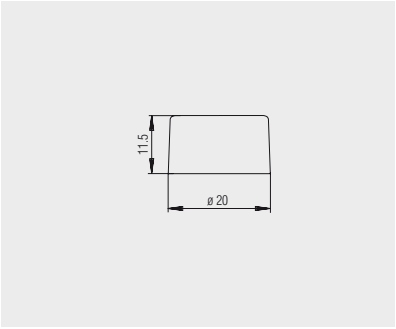
Neopren® - cap for pushbutton (M12 x 0.75) basic type 1840 as dust and water protection. Pushbutton plate on top of cap is CuZn nickel-plated.

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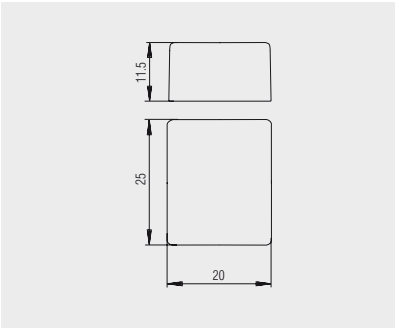
Pushbutton
205.008.011



Pushbutton of PA black, with diameter 20 mm for assembly by customer on 1841.6101 and 1842.6101



Pushbutton
203.106.011



Pushbutton of PA black, rectangular 20 x 25 mm for assembly by customer on 1841.6101 and 1842.6101

Further information under

WWW.MARQUARDT.DE

APPROVAL MARKS

	ENEC 05 (KEMA)		UL (USA)
	ENEC 10 (VDE)		UL (USA + Canada)
	VDE		CSA (Canada)
			CSA (Canada + USA)

TERMINAL SYMBOLS

	Quick-connect terminal		Cable
	Solder terminal		Terminal strip
	Short solder terminal		Push-in terminal
	PCB terminal		Snap-in terminal
	PCB terminal angled to left		Cut terminal
	PCB terminal angled to right		Screw terminal
	Socket terminal		

ACTUATOR SYMBOLS

	Straight lever		Lever simulated roller with adjusting screw
	Lever simulated roller		Lever with adjusting screw and roller
	Lever with roller		Lever with cams
	Differential lever		Housing cams
	Spring lever		Pushbutton
	Spring lever bent		Rotary shaft
	Spring lever with molded spring cam		Standard actuator
	Lever with adjusting screw		Mushroom-shaped actuator

ABBREVIATIONS TECHNICAL DRAWINGS

ad	Adjustable	**OP**	Operating position
AN	Anode	**OP NC**	Operating position normally closed contact
BL	Block	**OP NO**	Operating position normally open contact
FH	Fixing hole, locating hole fixing pin	**OR**	On request
FI	Fields for function indicator	**RC**	Recommended cut-out
FP	Free position	**RL**	Reference level
FX	Fixing pin	**SH**	Snap-in hole
ju	Adjusted	**SL**	Symbol limit
MC	Marking cathode	**SP**	Solder pads
MF	Mounting frame	**ST**	Slide travel
MP	Measuring point	**SW**	Switching position
OFF	Off	**TH**	Terminal hole
off-range	Zero position	**tk**	Thick
OG	Operating range	**to**	Top
ON	On	**TP**	Total travel position

SWITCHING FREQUENCY (ABBREVIATIONS)

e.g. 5E4 switching cycles ≙ **50 000** switching cycles