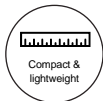




## RS SERIES ROCKER SWITCHES

General purpose rocker switches with secure voltage ratings and high in-rush current options.



## Applications

- Industrial
- Marine, Oil & Gas
- Automotive
- Automation & Controls
- Communications
- Robotics
- IoT
- Security Systems

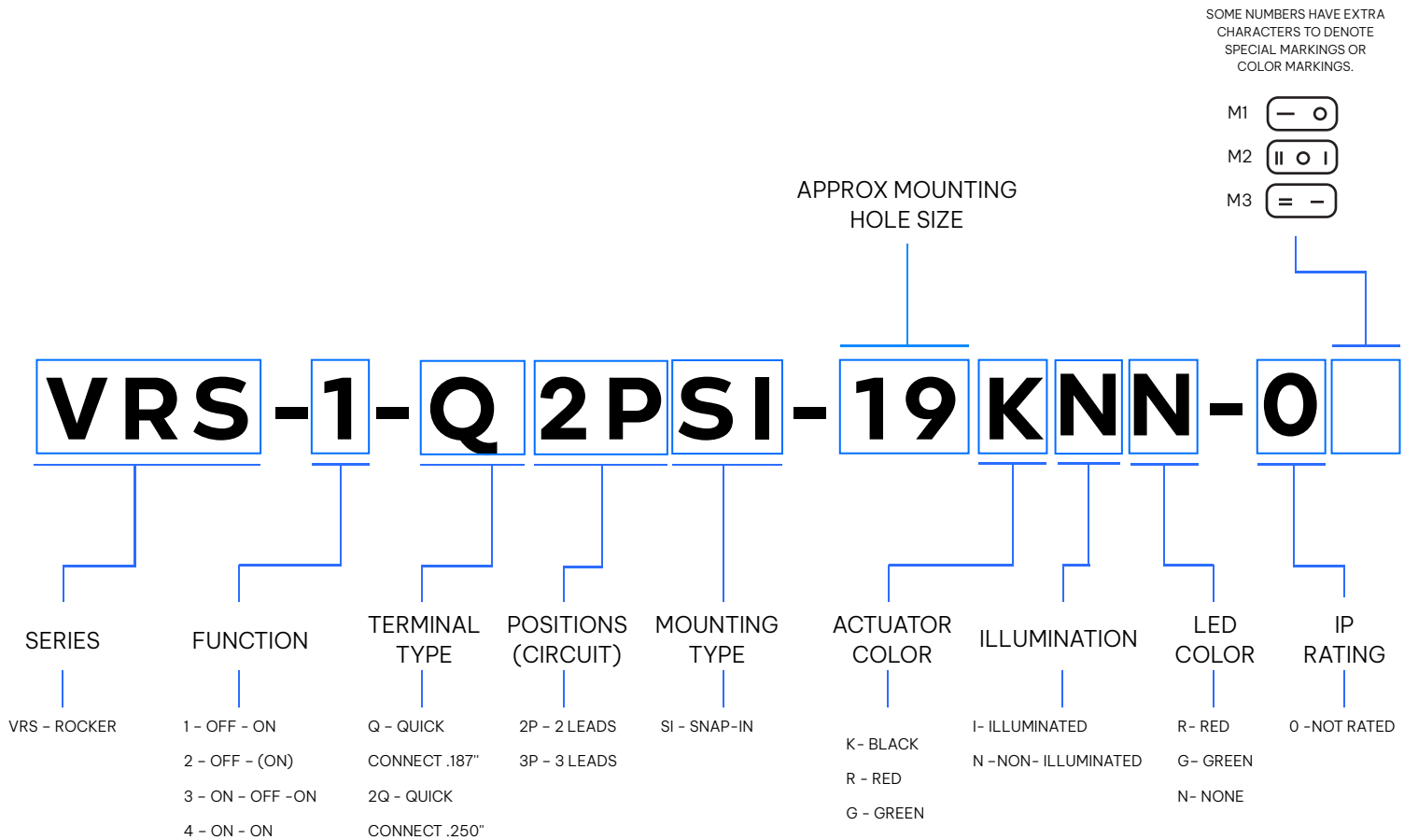
## Key Features

- Non-illuminated & Illuminated switch options.
- High in-rush current and voltage ratings for secure & reliable operation.
- Compact & lightweight design for easy installation.
- .187" and .250" quick connect terminal options.
- Vibration resistant secure snap-in mount design.
- Custom function mark & actuator color availability.
- ROHS & REACH compliant.
- ENEC & CQC certified.



# Ordering Data

## SKU Offering





## Mounting Hole: 12.9x19.2mm

Part Number	Function	Terminal Type	Positions	Mounting Type	Actuator Color	Illuminated	Led Color	IP Rated	Page
VRS-1-Q2PSI-19KNN-0	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>4</b>
VRS-1-Q2PSI-19KNN-0-M1	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>4</b>
VRS-1-Q2PSI-19RNN-0	Off-On	.187" QC	2P SPST	Snap-In	Red	Non-Illuminated	None	None	<b>4</b>
VRS-1-Q2PSI-19RNN-0-M1	Off-On	.187" QC	2P SPST	Snap-In	Red	Non-Illuminated	None	None	<b>4</b>
VRS-4-Q3PSI-19KNN-0	On-On	.187" QC	3P SPDT	Snap-In	Black	Non-Illuminated	None	None	<b>5</b>
VRS-3-Q3PSI-19KNN-0	On-Off-On	.187" QC	3P SPDT	Snap-In	Black	Non-Illuminated	None	None	<b>6</b>
VRS-3-Q3PSI-19KNN-0-M2	On-Off-On	.187" QC	3P SPDT	Snap-In	Red	Non-Illuminated	None	None	<b>6</b>
VRS-3-Q3PSI-19RNN-0-M2	On-Off-On	.187" QC	3P SPDT	Snap-In	Red	Non-Illuminated	None	None	<b>6</b>
VRS-1-Q3PSI-19GIG-0	Off-On	.187" QC	3P SPST	Snap-In	Green	Illuminated	Green	None	<b>7</b>
VRS-1-Q3PSI-19RIR-0	Off-On	.187" QC	3P SPST	Snap-In	Red	Illuminated	Red	None	<b>7</b>

## Mounting Hole: 13.9x28.6mm

VRS-1-Q2PSI-28KNN-0	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>8</b>
VRS-1-Q2PSI-28KNN-0-M1	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>8</b>
VRS-4-Q3PSI-28KNN-0	On-On	.187" QC	3P SPDT	Snap-In	Black	Non-Illuminated	None	None	<b>9</b>
VRS-1-Q3PSI-28RIR-0	Off-On	.187" QC	3P SPST	Snap-In	Red	Illuminated	Red	None	<b>10</b>

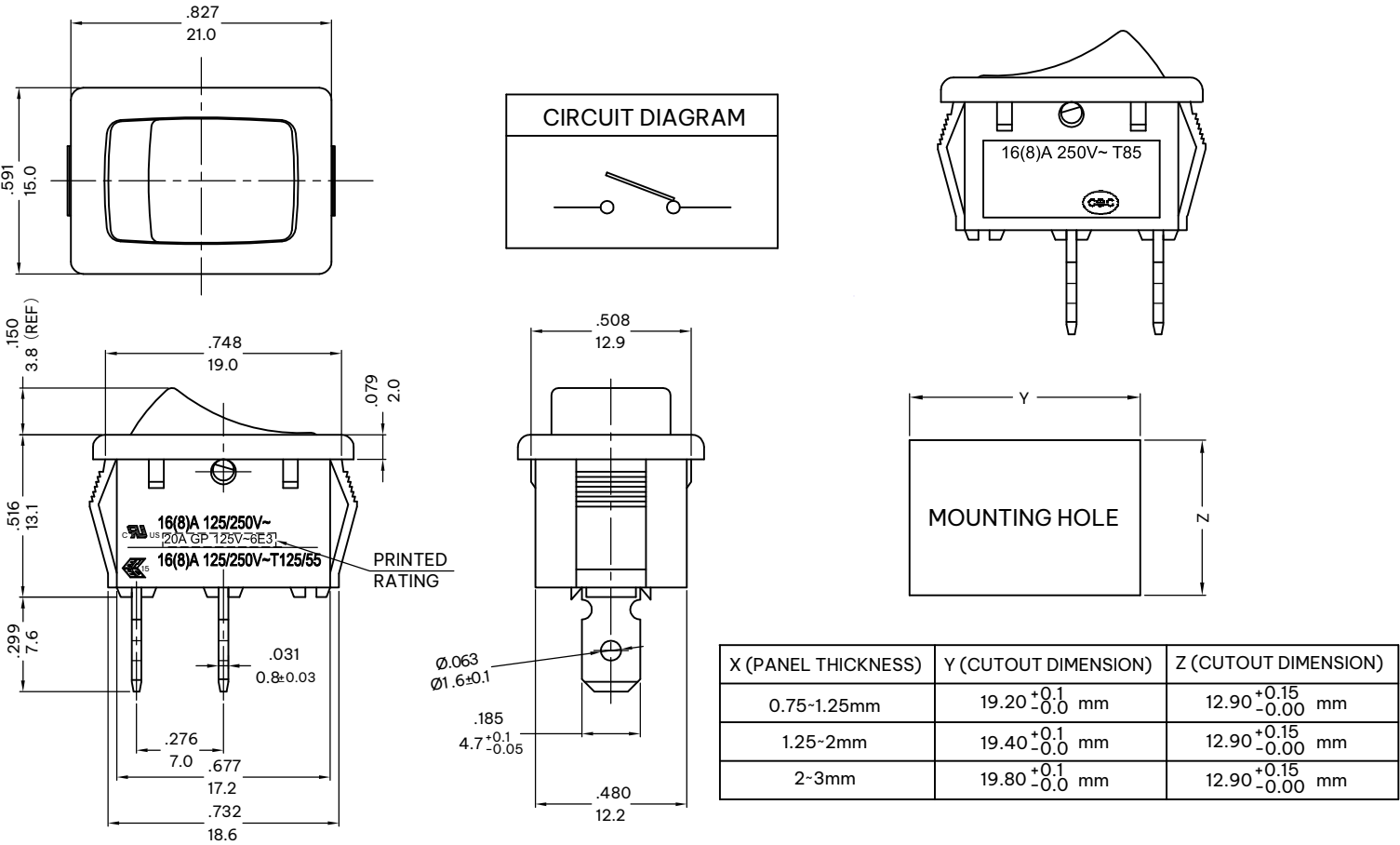
## Mounting Hole: 20.2mm

VRS-1-Q2PSI-20KNN-0	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>11</b>
VRS-1-Q2PSI-20KNN-0-M1	Off-On	.187" QC	2P SPST	Snap-In	Black	Non-Illuminated	None	None	<b>11</b>
VRS-4-Q3PSI-20KNN-0	On-On	.187" QC	3P SPDT	Snap-In	Black	Non-Illuminated	None	None	<b>12</b>
VRS-4-Q3PSI-20KNN-0-M3	On-On	.187" QC	3P SPDT	Snap-In	Black	Non-Illuminated	None	None	<b>12</b>
VRS-1-2Q3PSI-20RIR-0	Off-On	.250" QC	3P SPST	Snap-In	Red	Illuminated	Red	None	<b>13</b>
VRS-1-2Q3PSI-20GIG-0	Off-On	.250" QC	3P SPST	Snap-In	Green	Illuminated	Green	None	<b>13</b>



Product Dimensions





VRS-1-Q2PSI-19KNN-0  
VRS-1-Q2PSI-19RNN-0  
VRS-1-Q2PSI-19KNN-0-M1  
VRS-1-Q2PSI-19RNN-0-M1



Notes:

- 1. Tolerances unless otherwise specified: ± .012/0.3 (in/mm)
- 2. VRS-1-Q2PSI-19RNN-0-M1 is similar to VRS-1-Q2PSI-19KNN-0 but with actuator in red. See page 2.
- 3. VRS-1-Q2PSI-19KNN-0-M1 is similar to VRS-1-Q2PSI-19KNN-0 but with an M1 marking. See page 2.

Product Specifications

Rocker Switch Specifications	
Rating:	20A 125VAC 
	16 (8)A 125/250V ~T55 
	16 (8)A 125/250V ~T125/55 
	16 (8)A 250V-T85 
Switch Function:	2P OFF-ON

VRS-1-Q2PSI-19KNN-0

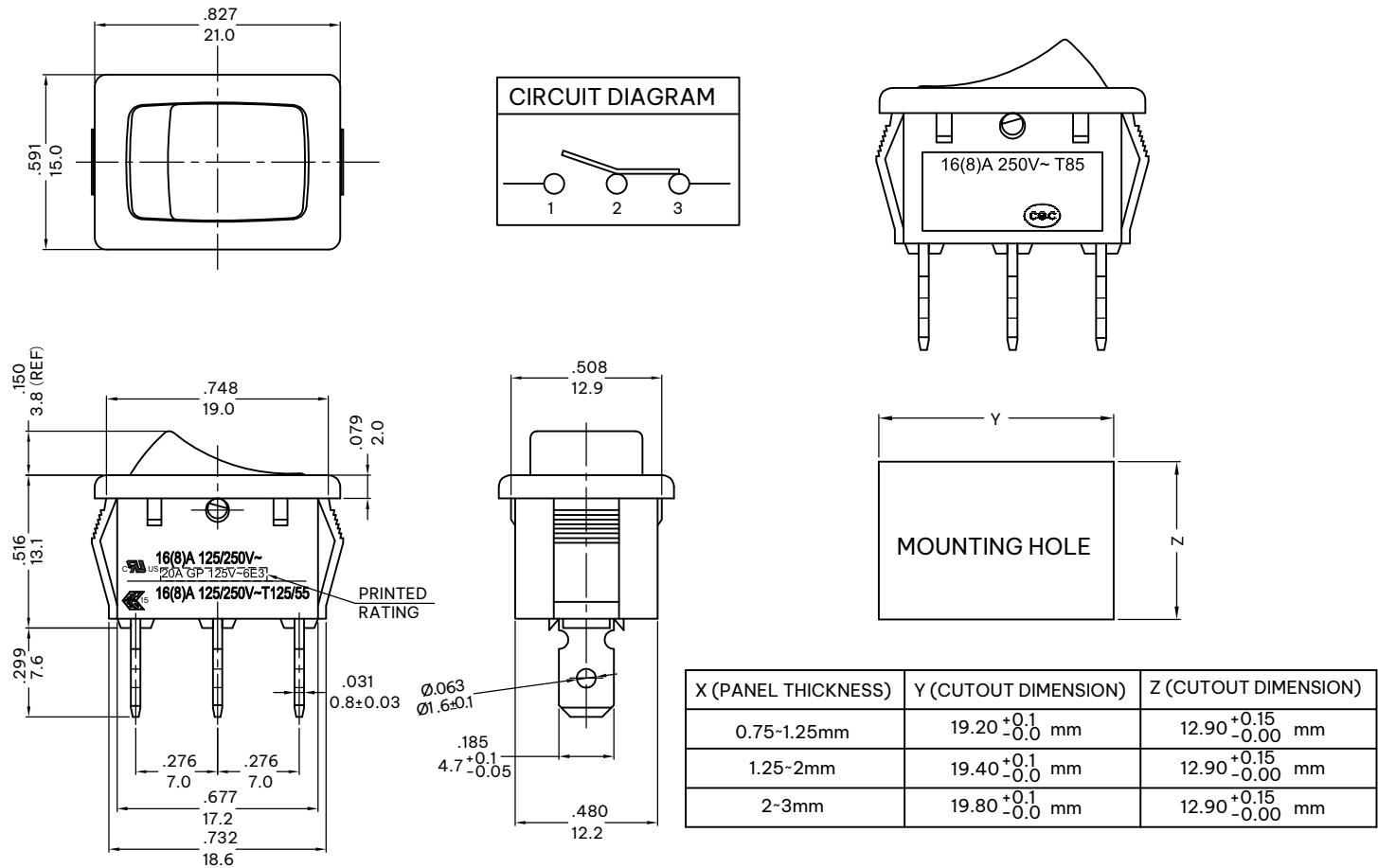


VRS-1-Q2PSI-19RNN-0      VRS-1-Q2PSI-19KNN-0-M1

Dielectric Voltage-Withstand:	1,500VAC For 1 Minute
Insulation Resistance:	DC 500V 100MΩ Min.
Contact Resistance:	20mΩ Initial Max.



VRS-4-Q3PSI-19KNN-0







**Note:**

1. Tolerances unless otherwise specified: ± .012/0.3 (in/mm)

**Product Specifications**

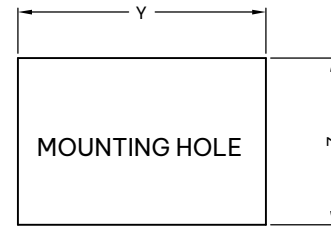
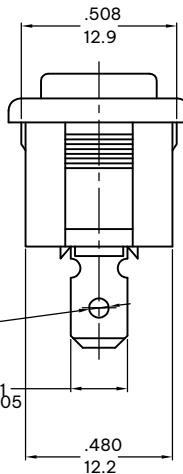
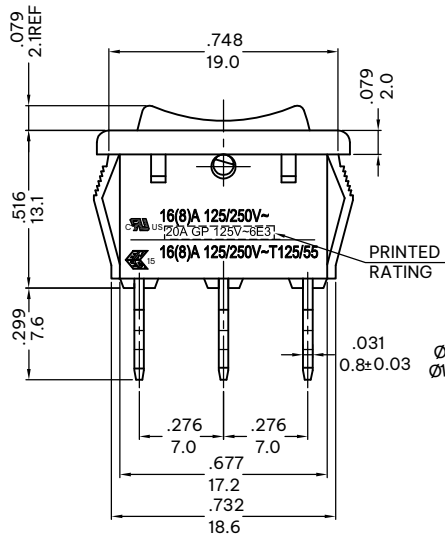
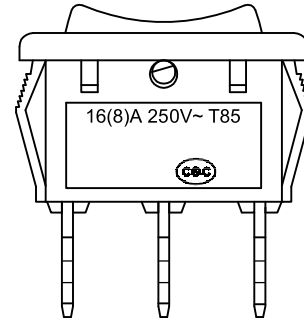
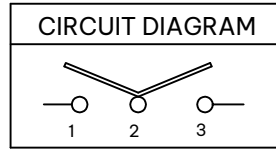
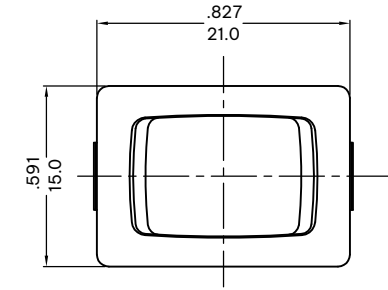


Rocker Switch Specifications	
Rating:	20A 125VAC 
	16 (8)A 125/250V ~T55 
	16 (8)A 125/250V ~T125/55 
	16 (8)A 250V-T85 
Switch Function:	3P ON-ON

Dielectric Voltage-Withstand:	1,500VAC For 1 Minute
Insulation Resistance:	DC 500V 100MΩ Min.
Contact Resistance:	20mΩ Initial Max.



VRS-3-Q3PSI-19KNN-0  
VRS-3-Q3PSI-19KNN-0-M2  
VRS-3-Q3PSI-19RNN-0-M2



X (PANEL THICKNESS)	Y (CUTOUT DIMENSION)	Z (CUTOUT DIMENSION)
0.75-1.25mm	19.20 <sup>+0.1</sup> <sub>-0.0</sub> mm	12.90 <sup>+0.15</sup> <sub>-0.00</sub> mm
1.25-2mm	19.40 <sup>+0.1</sup> <sub>-0.0</sub> mm	12.90 <sup>+0.15</sup> <sub>-0.00</sub> mm
2-3mm	19.80 <sup>+0.1</sup> <sub>-0.0</sub> mm	12.90 <sup>+0.15</sup> <sub>-0.00</sub> mm

- Notes:
- Tolerances unless otherwise specified:  $\pm .012/0.3$  (in/mm)
- VRS-3-Q3PSI-19KNN-0-M2 is similar to VRS-3-Q3PSI-19KNN-0 but with an M2 marking. See page 2.
- VRS-3-Q3PSI-19RNN-0-M2 is similar to VRS-3-Q3PSI-19KNN-0 but with actuator in red and M2 marking. See page 2.

## Product Specifications

Rocker Switch Specifications	
Rating:	20A 125VAC
	16 (8)A 125/250V ~T55
	16 (8)A 125/250V -T125/55
	16 (8)A 250V~T85
Switch Function:	3P ON-OFF-ON



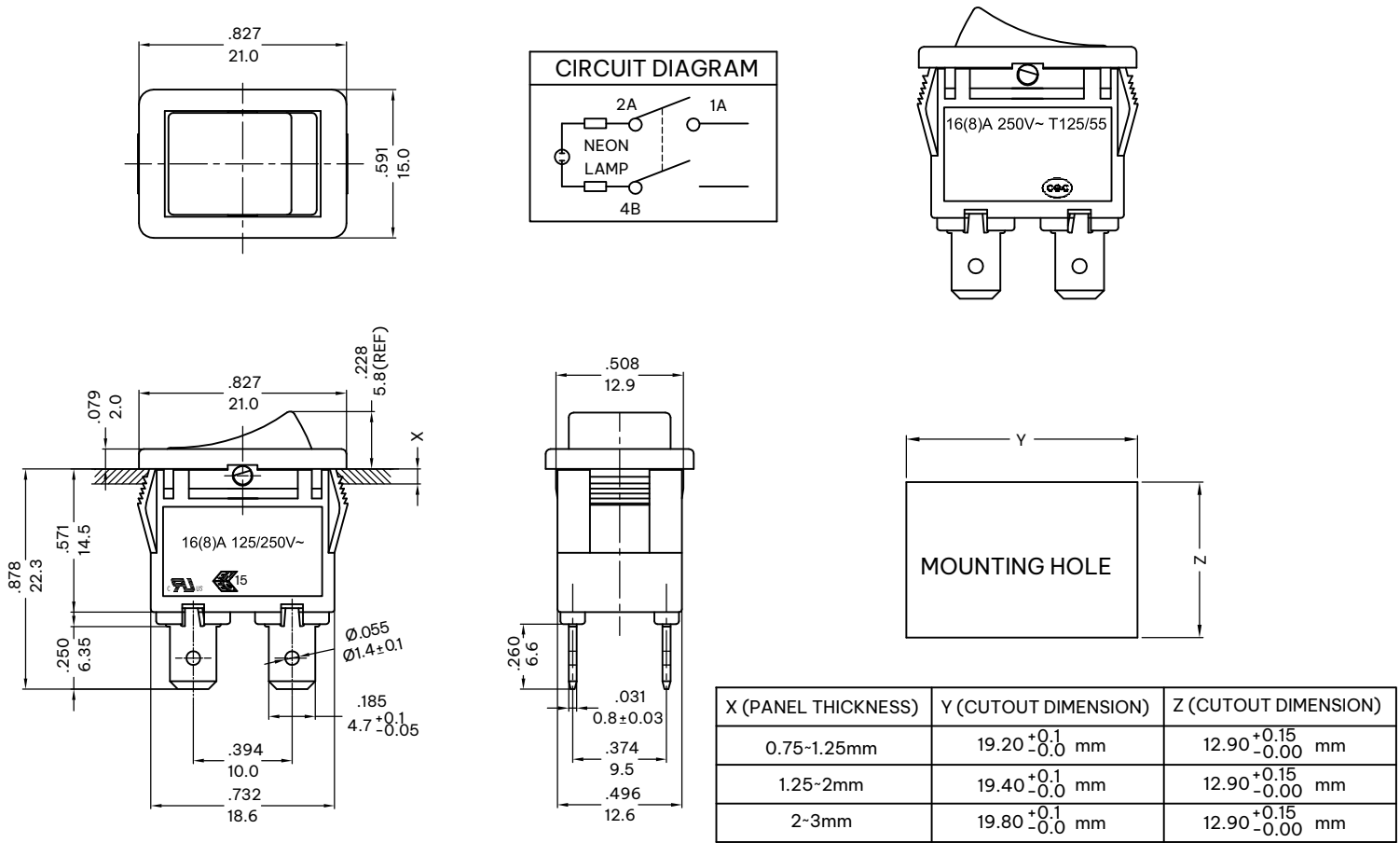
VRS-3-Q3PSI-19KNN-0

VRS-3-Q3PSI-19RNN-0-M2

Dielectric Voltage-Withstand:	1,500VAC For 1 Minute
Insulation Resistance:	DC 500V 100MΩ Min.
Contact Resistance:	20mΩ Initial Max.

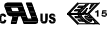



VRS-1-Q3PSI-19GIG-0  
VRS-1-Q3PSI-19RIR-0



- Notes:**
- 1. Tolerances unless otherwise specified:  $\pm .012/0.3$  (in/mm)
  - 2. VRS-1-Q3PSI-19RIR-0 has actuator in green
  - 3. VRS-1-Q3PSI-19GIG-0 has actuator in red.
- See page 2.

Product Specifications

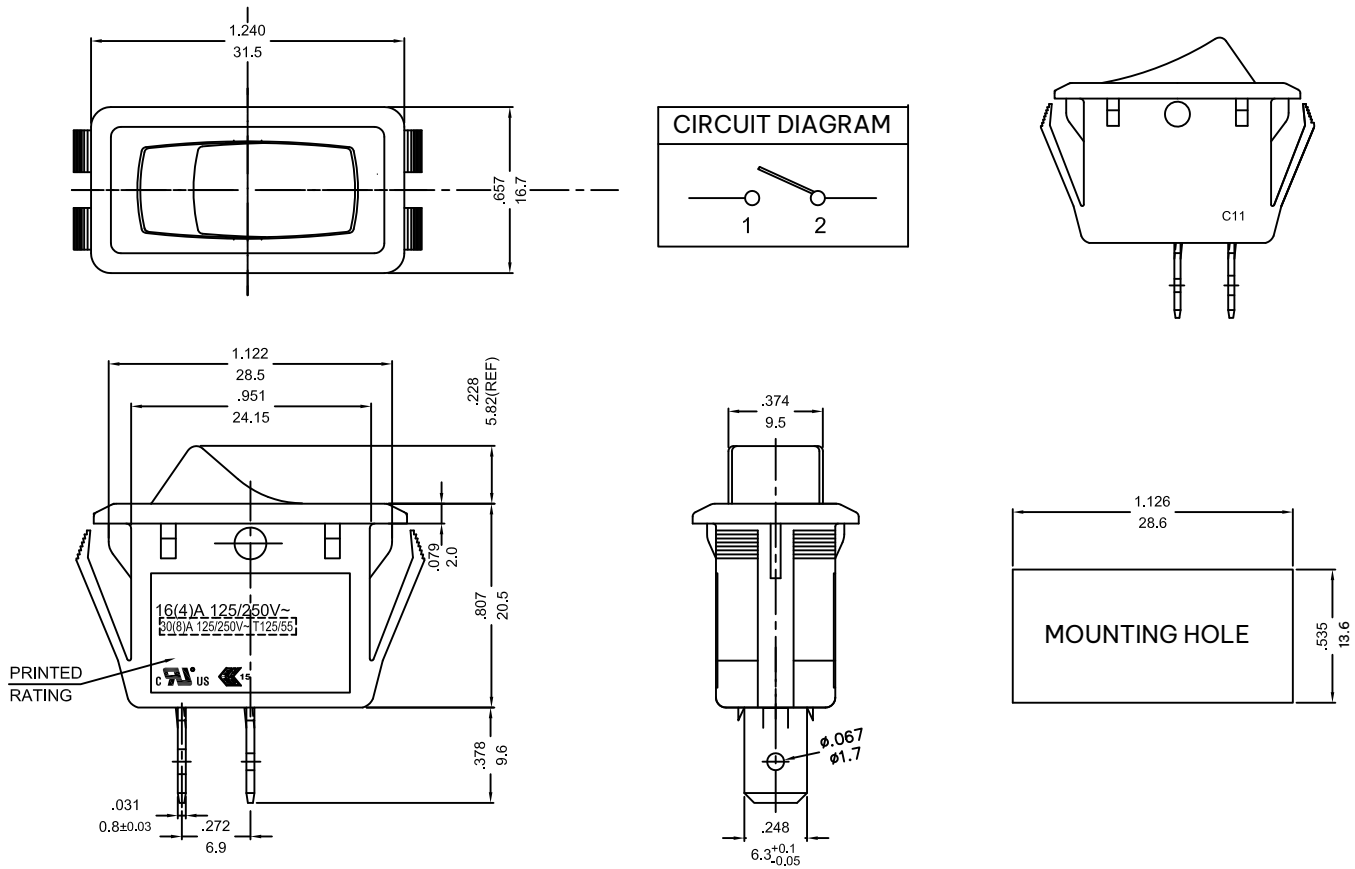
Rocker Switch Specifications	
Rating:	16A 125VAC, 8A 250 VAC 
	16 (8)A 250V~T125/55 
Switch Function:	3P OFF-ON

Dielectric Withstand Voltage	1,500VAC 1 Minute
Insulation Resistance:	500VDC 100MΩ Min.
Contact Resistance:	20mΩ Initial Max.
Illumination:	100-125 VAC






VRS-1-Q2PSI-28KNN-0  
VRS-1-Q2PSI-28KNN-0-M1



## Notes:

1. Tolerances unless otherwise specified:  $\pm .012/0.3$  (in/mm)
2. VRS-1-Q2PSI-28KNN-0-M1 is similar to VRS-1-Q2PSI-28KNN-0 with an M1 marking.  
See page 2.

## Product Specifications

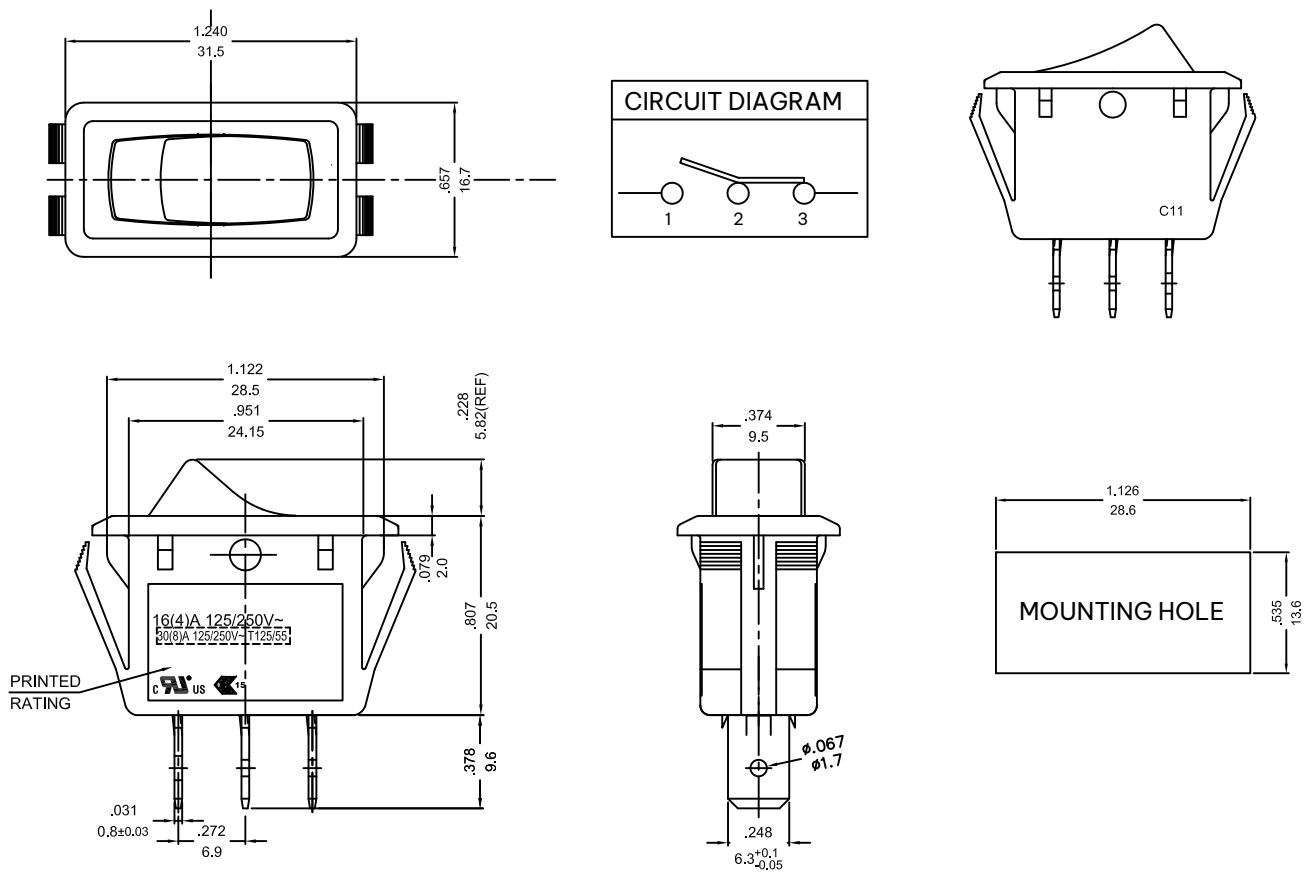
Rocker Switch Specifications	
Rating:	30A 125 VAC, 8A 250 VAC 
Dielectric Withstand Voltage:	1,000VAC 1 Minute
Insulation Resistance:	500VDC 100MΩ Min.
Contact Resistance:	20mΩ Initial Max.
Switch Function:	2P OFF-ON









VRS-4-Q3PSI-28KNN-0



**Note:**

1. Tolerances unless otherwise specified:  $\pm .012/0.3$  (in/mm)

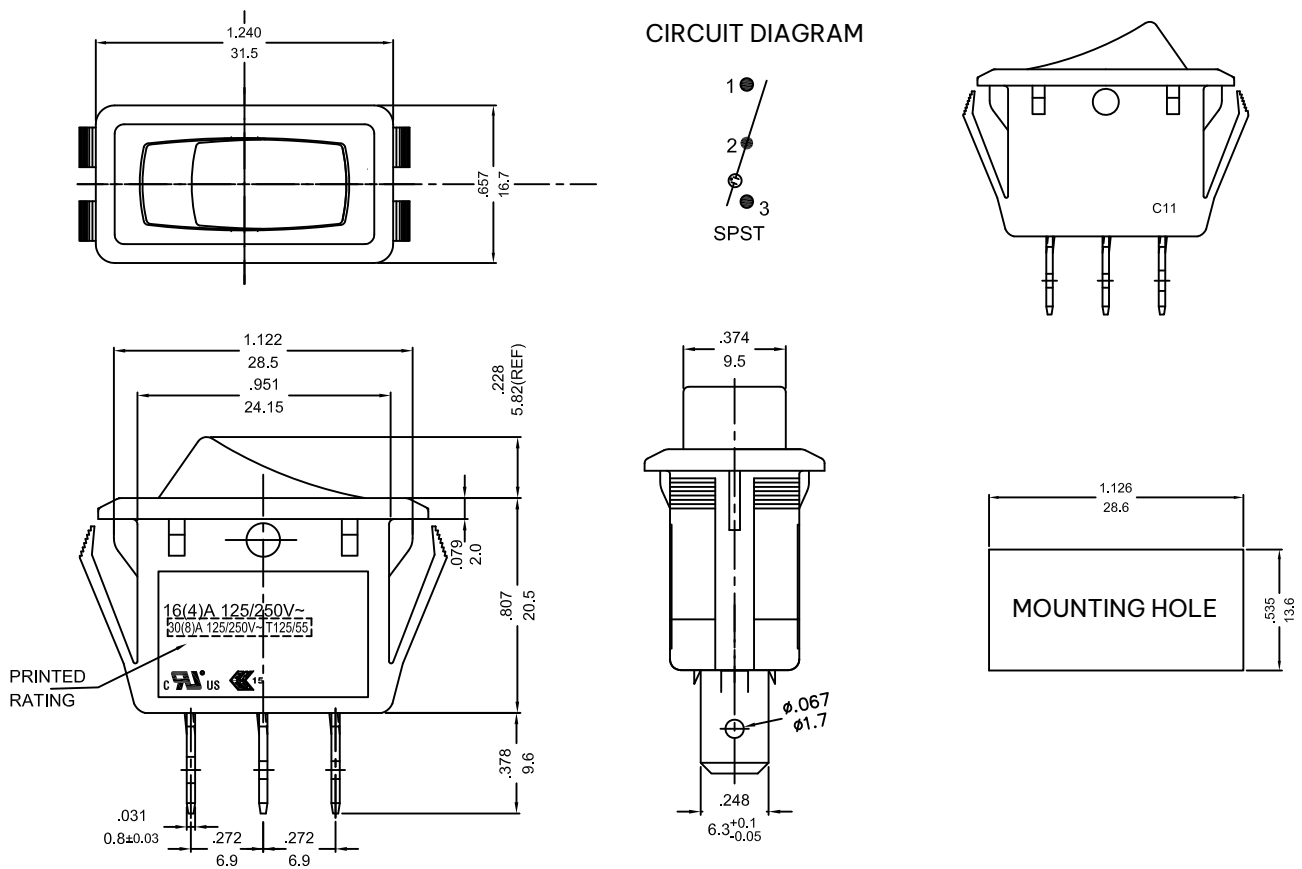
**Product Specifications**

Rocker Switch Specifications	
Rating:	30A 125 VAC, 8A 250 VAC  
Dielectric Withstand Voltage:	1,000VAC 1 Minute
Insulation Resistance:	500VDC 100M $\Omega$ Min.
Contact Resistance:	20m $\Omega$ Initial Max.
Switch Function:	3P ON-ON





# VRS-1-Q3PSI-28RIR-0



## Note:

1. Tolerances unless otherwise specified:  $\pm .012/0.3$  (in/mm)

## Product Specifications

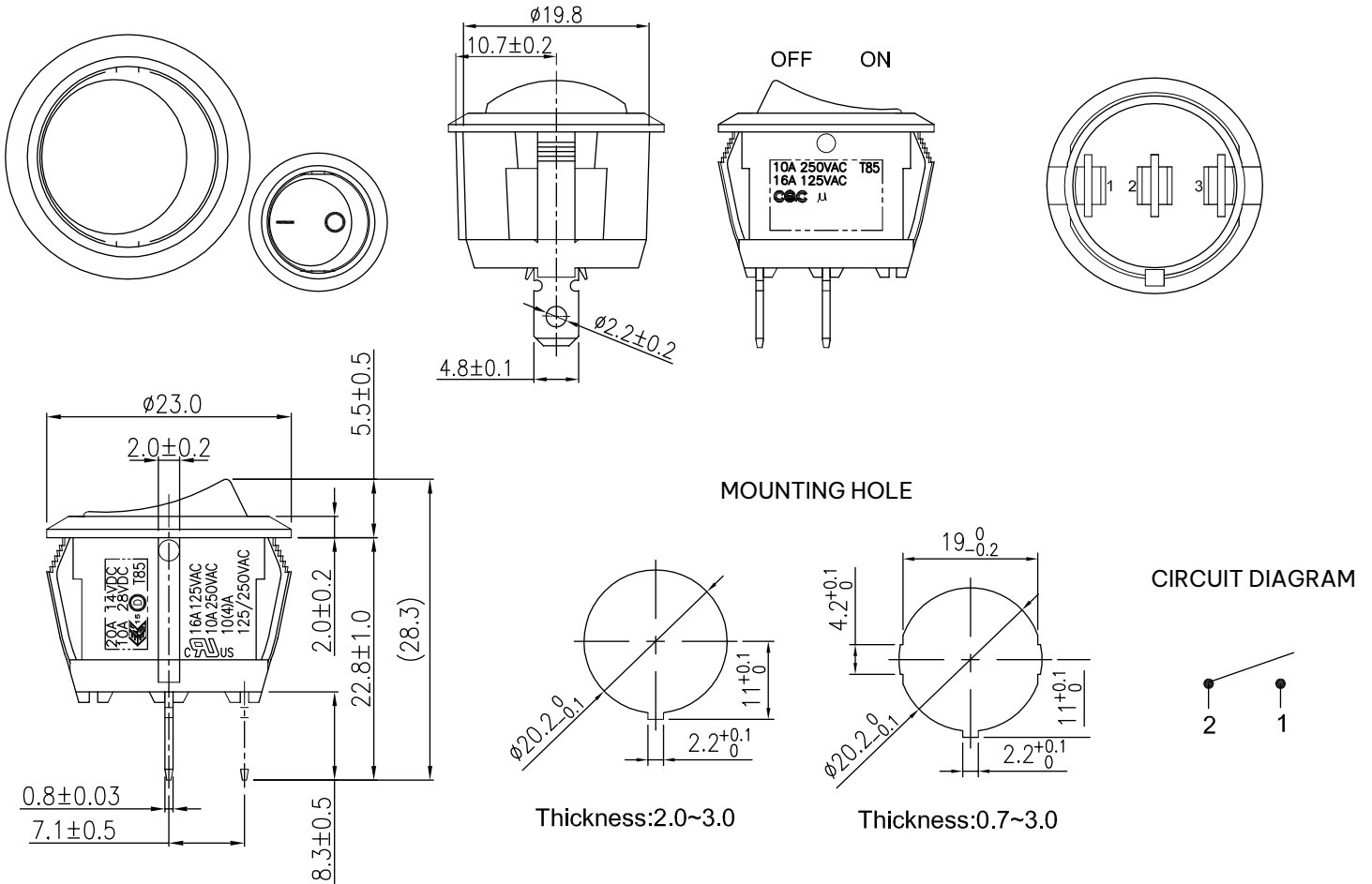
Rocker Switch Specifications	
Rating:	30A 125 VAC, 8A 250 VAC
Dielectric Withstand Voltage:	1,000VAC 1 Minute
Insulation Resistance:	500VDC 100M $\Omega$ Min.
Contact Resistance:	20m $\Omega$ Initial Max.
Illumination:	100~125VAC
Switch Function:	3P OFF-ON





VRS-1-Q2PSI-20KNN-0






VRS-1-Q2PSI-20KNN-0-M1



## Note:

1. Tolerances unless otherwise specified:  $\pm 0.3$
2. VRS-1-Q2PSI-20KNN-0-M1 is similar to VRS-1-Q2PSI-20KNN-0 with an M1 marking.  
See page 2.

## Product Specifications

Rating:	16A 125VAC, 10A 250VAC 
	10A 125VAC, 4A 250VAC T85  20A 14VDC, 10A 28VDC 
	10A 250VAC  T85 16A 125VAC 
Contact Resistance	50mΩ Max.
Insulation Resistance	DC 500V 100MΩ Min.
Dielectric Strength	AC 1500V 1 minute
Operation temperature	-25°C ~ 85°C
Switch Function	2P OFF-ON

VRS-1-Q2PSI-20KNN-0-M1

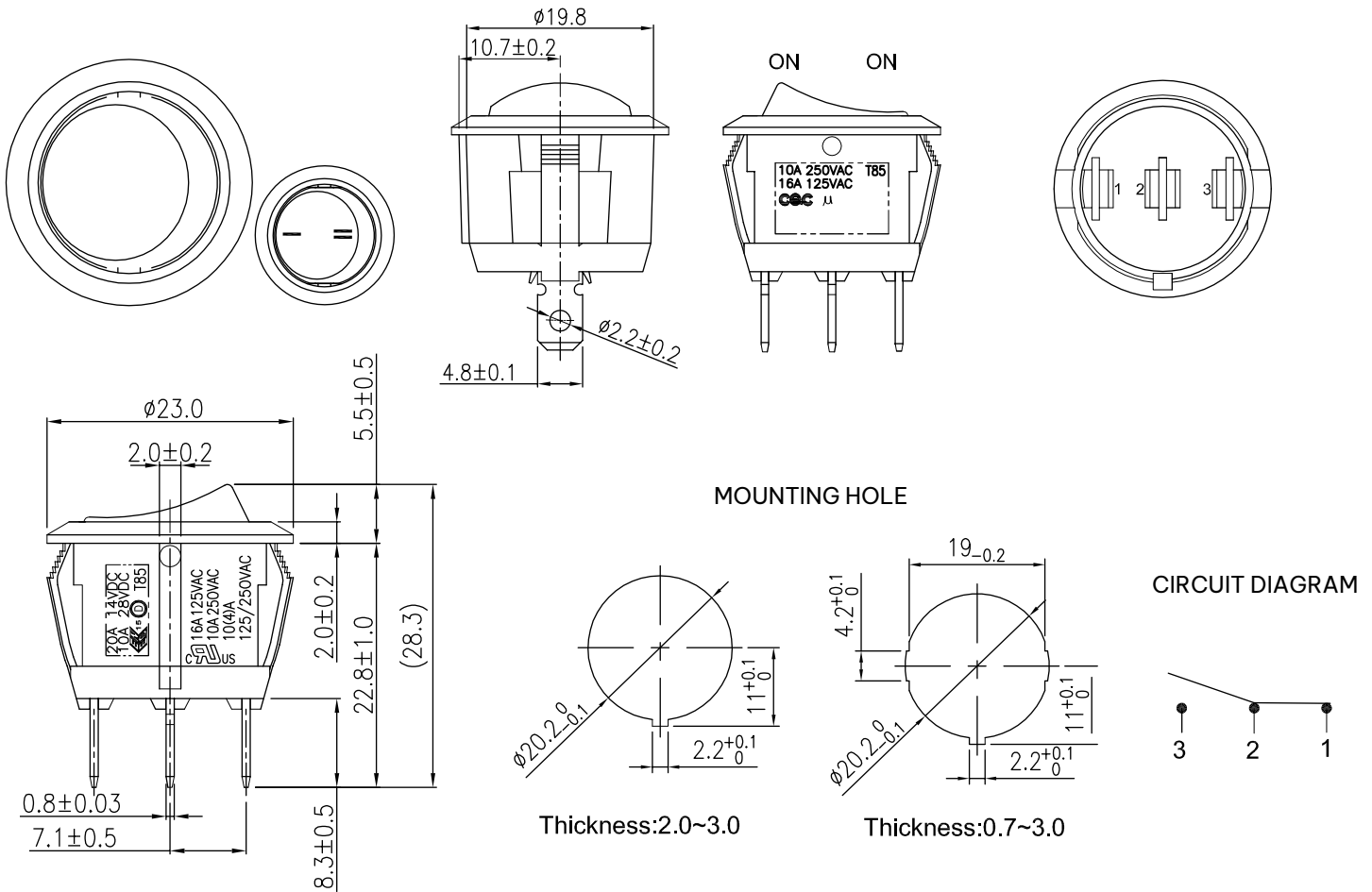


VRS-1-Q2PSI-20KNN-0

MATERIAL	
Frame:	Nylon 66
Actuator:	Nylon 66
Terminals:	Copper
Contacts:	AgSnO2InO3
Marking <sup>2</sup>	White, O-



VRS-4-Q3PSI-20KNN-0  
VRS-4-Q3PSI-20KNN-0-M3



## Note:

1. Tolerances unless otherwise specified:  $\pm 0.3$
2. VRS-4-Q3PSI-20KNN-0-M3 is similar to VRS-4-Q3PSI-20KNN-0 with an M3 marking.  
See page 2.

## Product Specifications

Rating:	16A 125VAC, 10A 250VAC
	10A 125VAC, 4A 250VAC T85
	20A 14VDC, 10A 28VDC
Contact Resistance	50mΩ Max.
Insulation Resistance	DC 500V 100MΩ Min.
Dielectric Strength	AC 1500V 1 minute
Operation temperature	-25°C ~ 85°C
Switch Function	3P ON-ON

VRS-4-Q3PSI-20KNN-0-M3

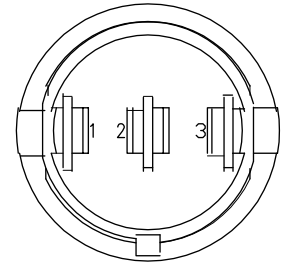
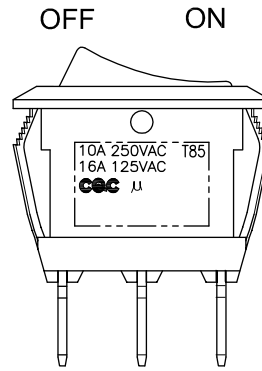
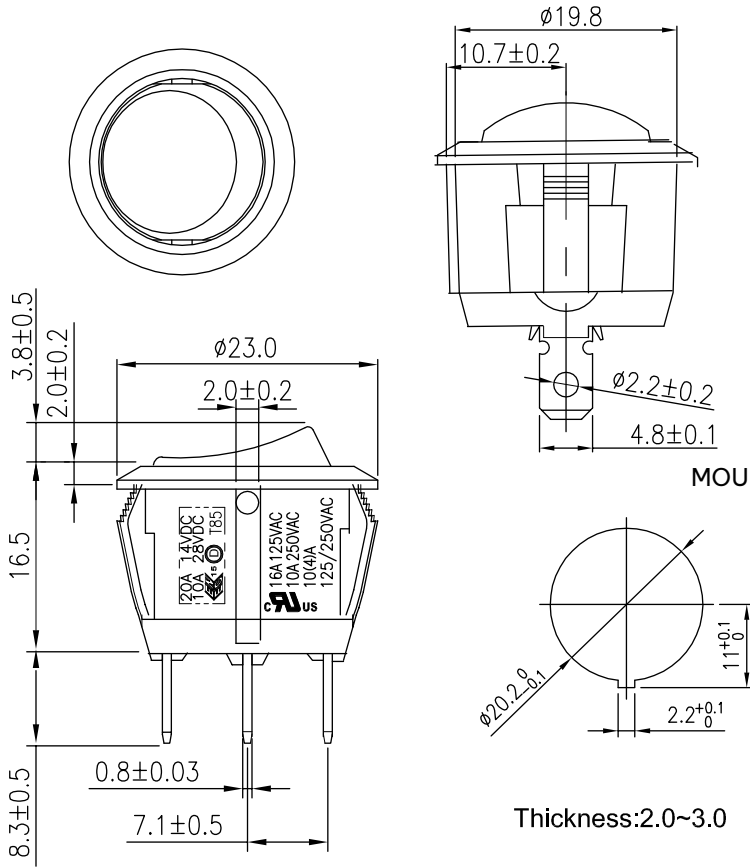
VRS-4-Q3PSI-20KNN-0



MATERIAL	
Frame:	Nylon 66 Black
Actuator:	Nylon 66 Black
Terminals:	Cooper Alloy, Silver plating
Marking <sup>2</sup>	White, ==

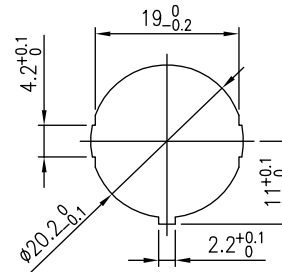
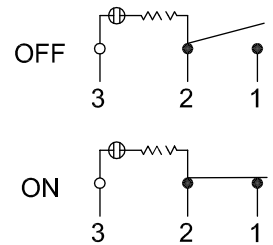


VRS-1-2Q3PSI-20RIR-0  
VRS-1-2Q3PSI-20GIG-0



MOUNTING HOLE

CIRCUIT DIAGRAM

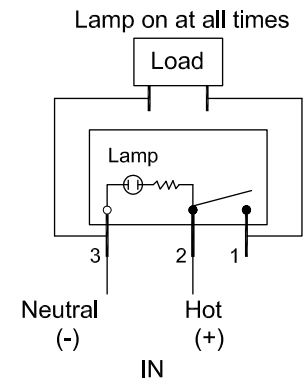
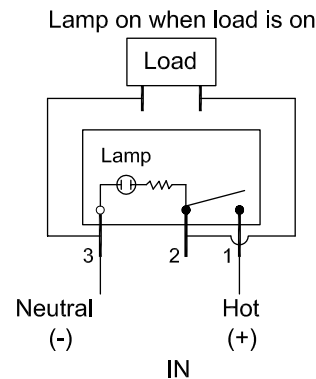


Thickness:0.7~3.0




Thickness:2.0~3.0

## Notes:

1. Tolerances unless otherwise specified:  $\pm 0.3$
2. VRS-1-2Q3PSI-20GIG-0 is similar to VRS-1-2Q3PSI-20RIR-0 with actuator in green. See page 2.



## Product Specifications

Rating:	16A 125VAC, 10A 250VAC 
	10A 125VAC, 4A 250VAC  20A 14VDC, 10A 28VDC
	10A 250VAC  16A 125VAC
Contact Resistance	50mΩ Max.
Insulation Resistance	DC 500V 100MΩ Min.
Dielectric Strength	AC 1500V 1 minute
Operation temperature	-25°C ~ 85°C
Switch Function	3P OFF-ON



MATERIAL	
Frame:	Nylon 66 Black (94V-2)
Actuator:	Nylon 66 Black (94V-2)
Terminals:	Cooper alloy, Silver plating



## Compliances and approvals

