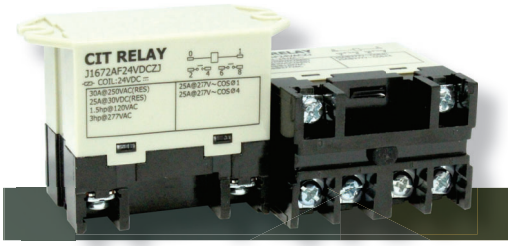


CIT® Relay & Switch

J167

68.5 x 33.5 x 49.0 mm

Features

- High Capacity General Purpose
- 1A and 2A contact options available
- Wide range of coil voltage
- UL/CUL, TÜV certified

TÜV

c UL us E197851

RoHS COMPLIANT

Contact Data*

UL Contact Rating	25A @ 30VDC Resistive, 6K cycles, 60°C 30A @ 277VAC Resistive, 100K cycles, 40°C 1.5kW @ 120VAC Tungsten, 6K cycles, 40°C 1.5hp @ 120VAC 1K cycles, 60°C 3hp@277VAC 100K cycles 40°C 20FLA / 120LRA @ 120VAC 30K cycles, 40°C 17FLA / 102LRA @ 277VAC 30K Cycles, 40°C TV-10, 120VAC 25K Cycles, 40°C
TÜV Contact Rating	25A @ 277VAC Resistive, 100K cycles, 55°C 25A @ 277VAC Inductive pf .4, 50K cycles 55°C

Contact Arrangement	1A = SPST N.O. 2A = DPST N.O.
Contact Resistance	< 50 milliohms initial
Contact Material	$AgSnO_2In_2O_3$
Maximum Switching Power	1A = 6600VA 2A = 5500VA
Maximum Switching Voltage	277VAC, 30VDC
Maximum Switching Current	30A

Coil Data DC Parameters*

Coil Voltage VDC		Coil Resistance Ω +/- 10%	Pick Up Voltage VDC (max)	Release Voltage VDC (min)	Coil Power W	Operate Time ms	Release Time ms
Rated	Max		70% of rated voltage	10% of rated voltage			
6	7.8	19	4.2	0.6	1.9	≤30	≤30
12	15.6	75	8.4	1.2			
24	31.2	303	16.8	2.4			
48	62.4	1220	33.6	4.8			
110	143.0	6360	77.0	11.0			
220	286.0	25474	154.0	22.0			

Coil Data AC Parameters*

Coil Voltage VAC		Coil Resistance Ω +/- 10%	Pick Up Voltage VAC (max)	Release Voltage VAC (min)	Coil Power VA	Operate Time ms	Release Time ms
Rated	Max		70% of rated voltage	10% of rated voltage			
6	7.8	14	4.2	0.6	2.5	≤30	≤30
12	15.6	55	8.4	1.2			
24	31.2	275	16.8	2.4			
48	62.4	1100	33.6	4.8			
100~120	143.0	5200	70.0	10.0			
200~240	286.0	21000	140.0	20.0			
380	494.0	62650	266.0	38.0			

General Data*

Electrical Life @ rated load		100K cycles, typical
Mechanical Life		500K cycles, typical
Insulation Resistance		1000M Ω min. @ 500VDC
Dielectric Strength	Coil to Contact	4000V rms min. @ sea level
	Contact to Contact	2000V rms min. @ sea level
	Between Poles	2000V rms min. @ sea level
Shock Resistance		10G, half-sine shock pulse, 11 ms
Vibration Resistance		1.50mm double amplitude 10~55Hz
Operating Temperature		-40ºC to 85ºC
Storage Temperature		-40ºC to 85ºC
Solderability		260ºC for 5 s
Weight		120g

** Values can change due to the switching frequency, desired reliability levels, environmental conditions and in-rush load levels. It is recommended to test actual load conditions for the application. It is the user's responsibility to determine the performance suitability for their specific application. The use of any coil voltage less than the rated coil voltage may compromise the operation of the relay.*

Ordering Information

1. Series	J167	1A	C	12VDC	Q		

J167

2. Contact Arrangement
   1A = SPST N.O.
   2A = DPST N.O.

3. Cover Option
   C = Standard Cover *not available with Screw Terminals*
   F = Flange Cover *not available with PC Terminals*
   D = DIN Rail *not available with PC Terminals*

4. Coil Voltage

6VDC	6VAC
12VDC	12VAC
24VDC	24VAC
48VDC	48VAC
110VDC	120VAC *(100~120VAC)*
220VDC	240VAC *(200~240VAC)*
	380VAC

5. Terminals
   Z = Screw Terminals
   Q = .250" Quick Connect Terminals
   P = PC Pin Terminals

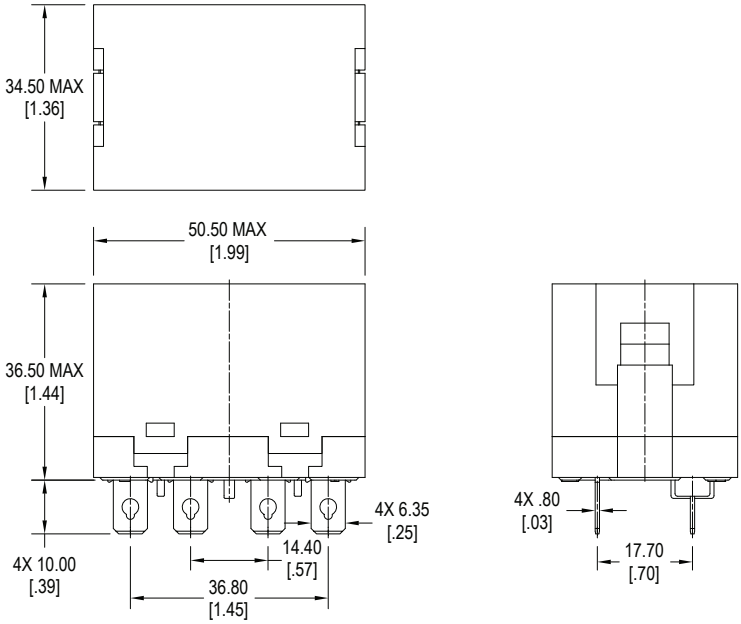
6. LED Option *only available with Screw Terminals*
   Blank = Without indicator LED
   D = With indicator LED *COVER REQUIRED : choose "F" Flange Cover or "D" DIN Rail cover option*

7. Push-To-Test Option
   Blank = Without Push-To-Test button
   T = With Push-To-Test button

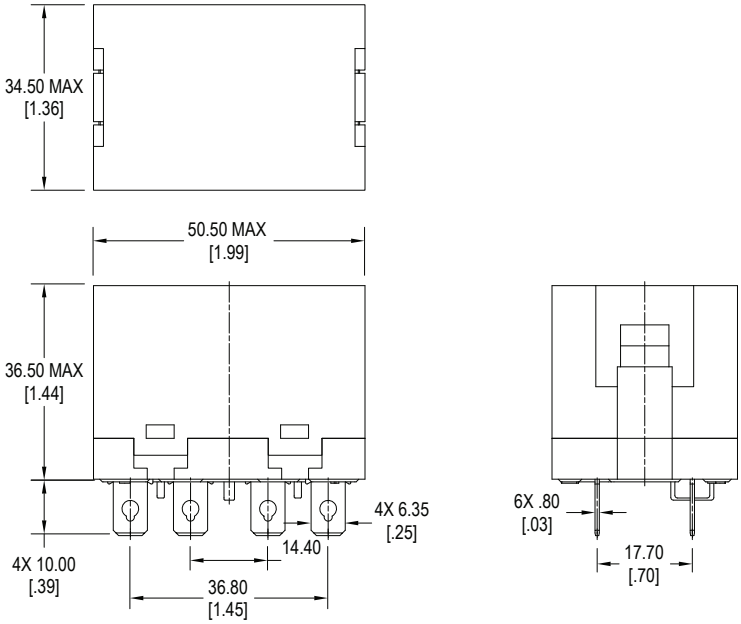
8. Contact Material
   Blank = $AgSnO_2In_2O_3$

Dimensions

Units = mm



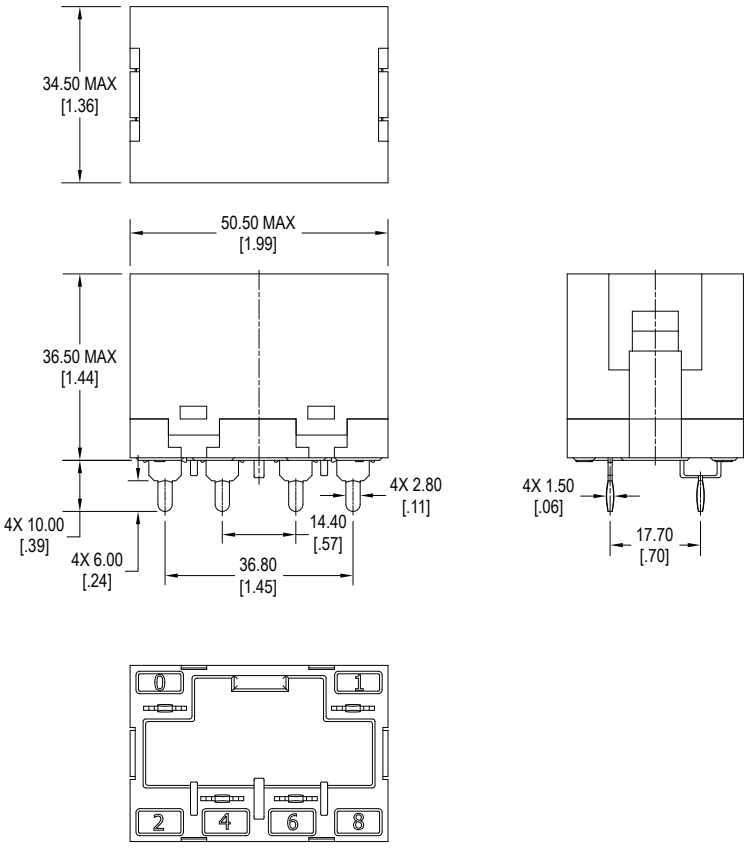
1A Standard Cover, Quick Connect Terminals



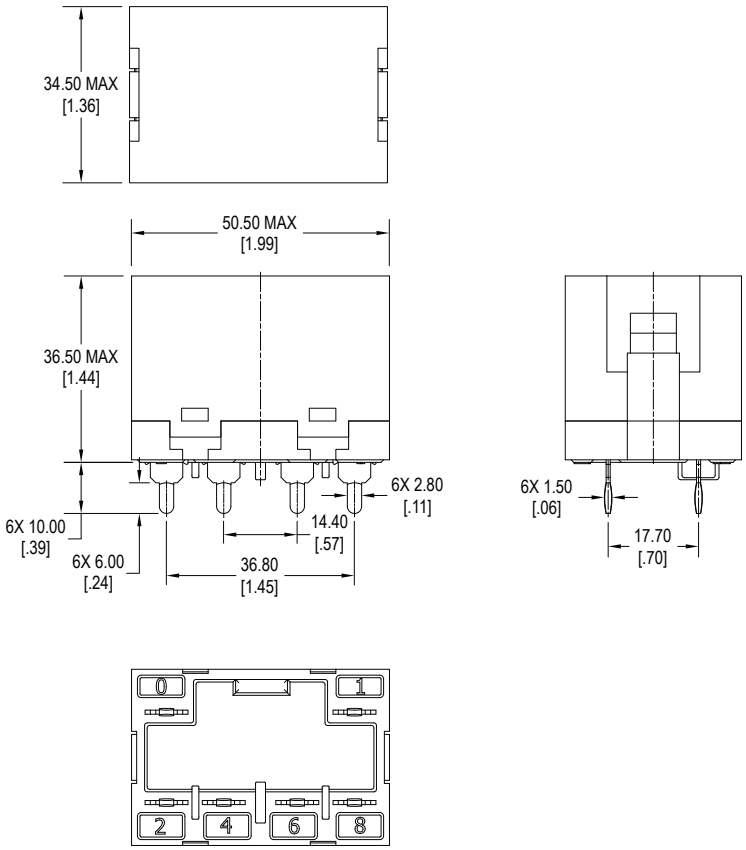
2A Standard Cover, Quick Connect Terminals

Dimensions

Units = mm



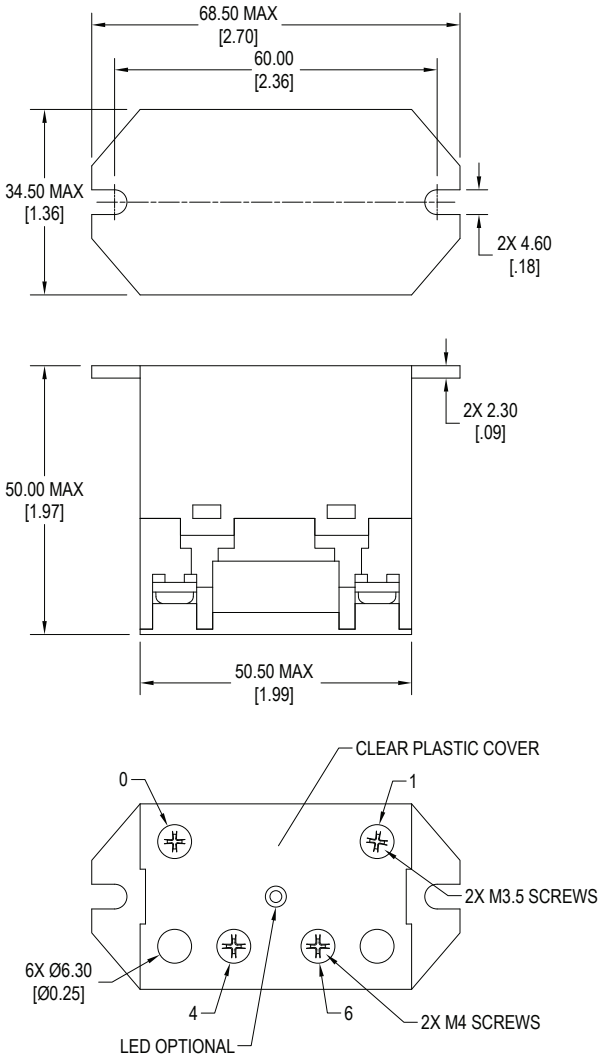
1A Standard Cover, PC Pin Terminals



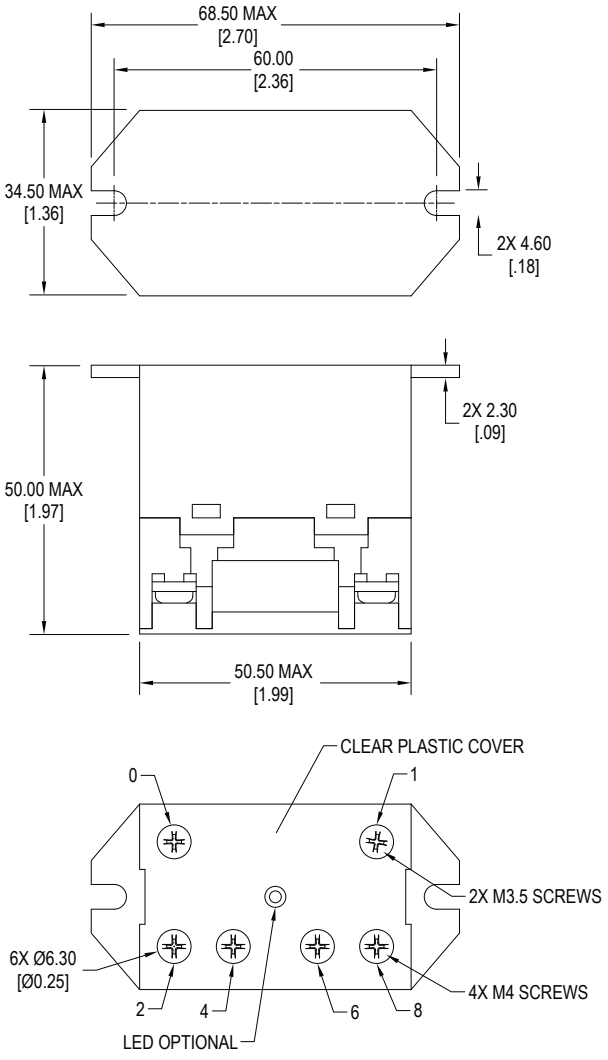
2A Standard Cover, PC Pin Terminals

Dimensions

Units = mm



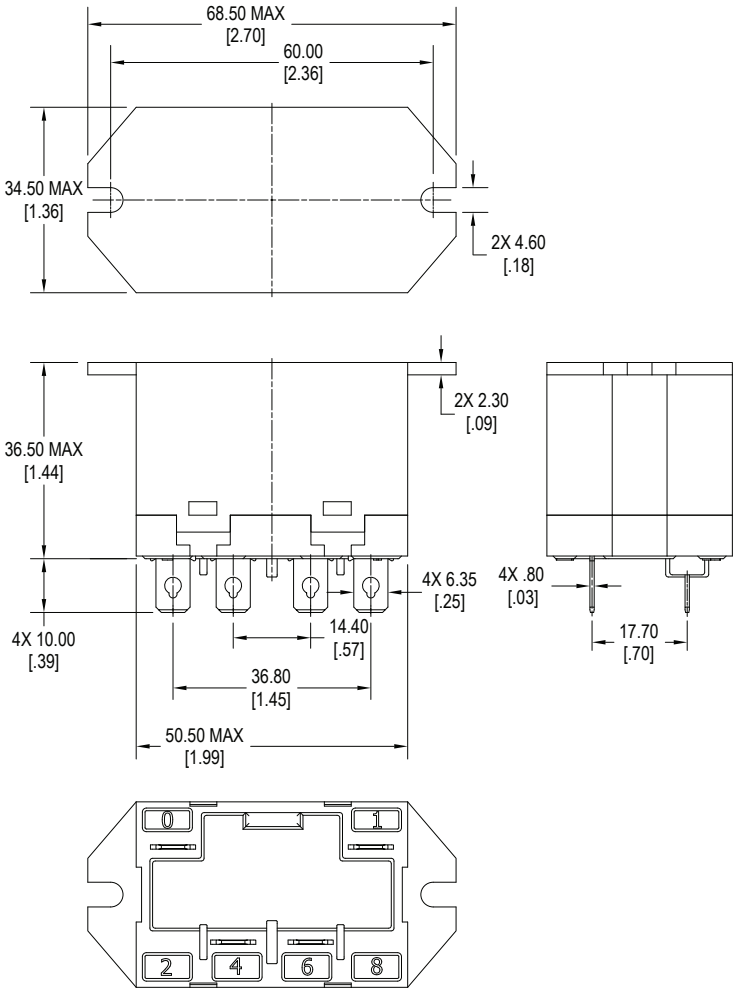
1A Flange Cover, Screw Terminals



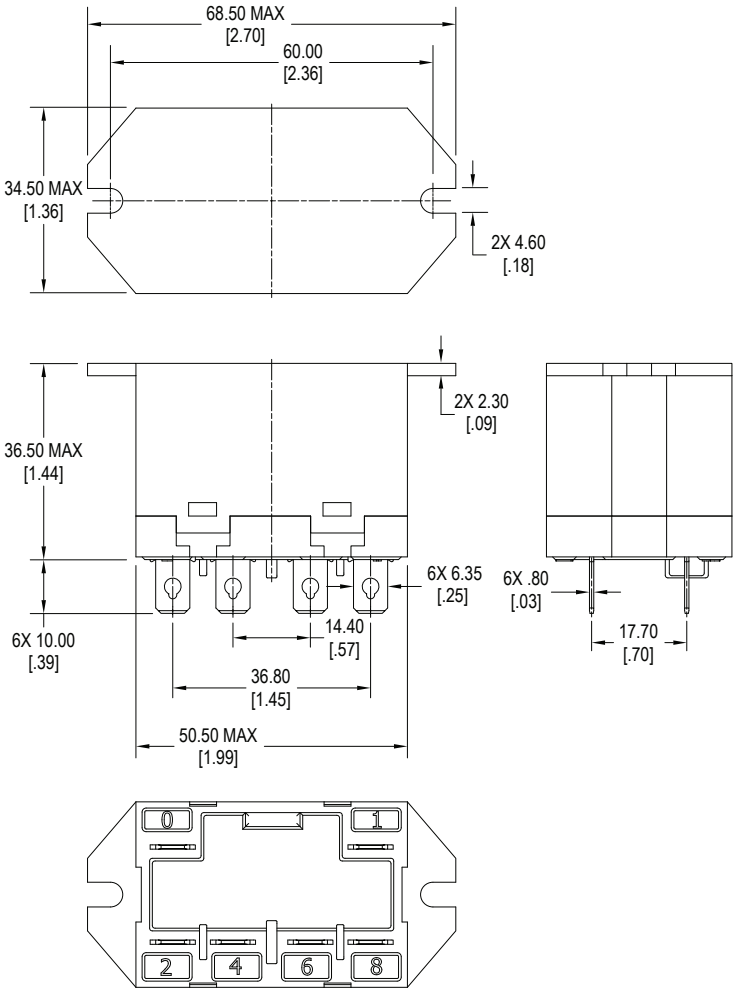
2A Flange Cover, Screw Terminals

Dimensions

Units = mm



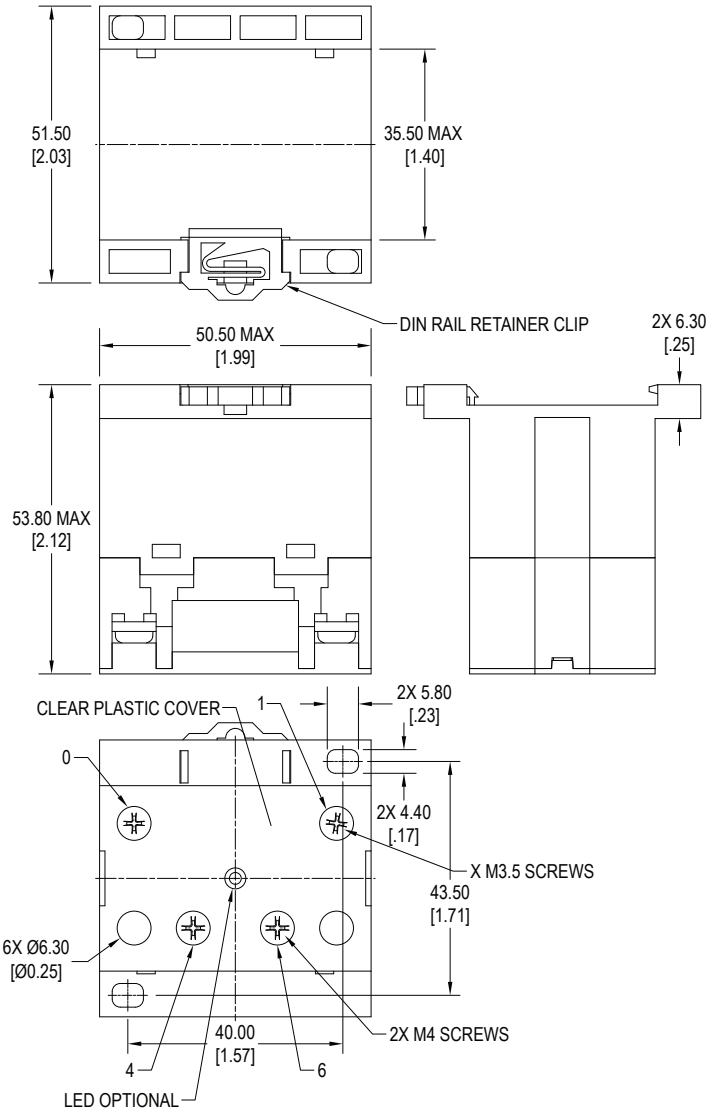
1A Flange Cover, Quick Connect Terminals



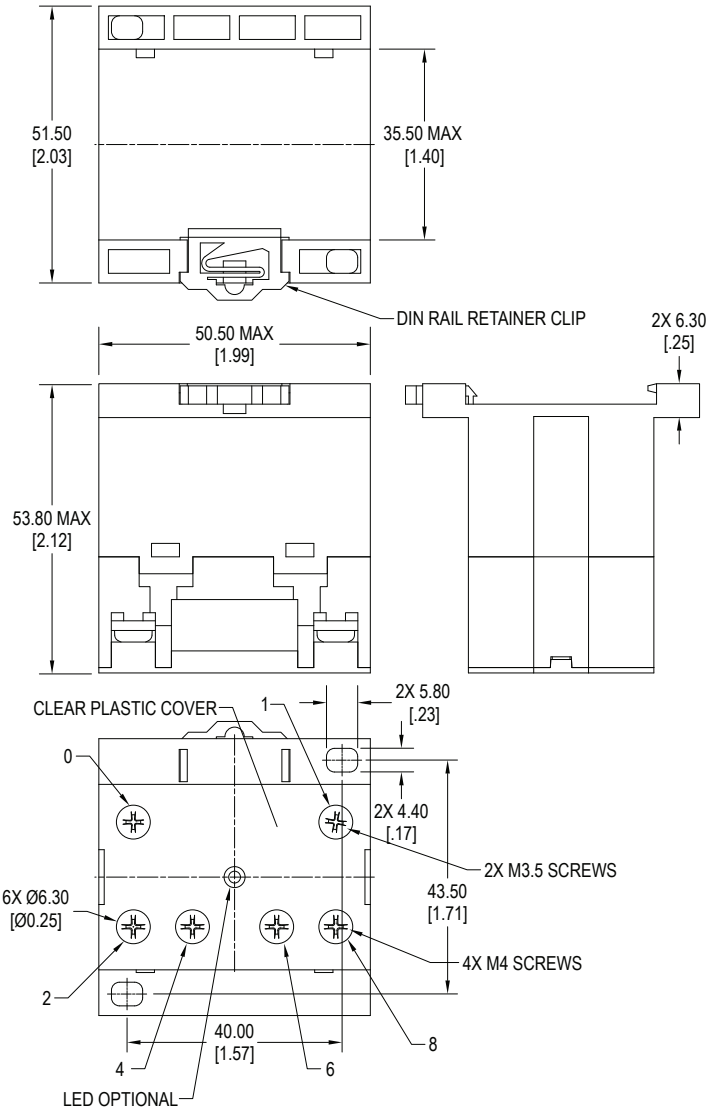
2A Flange Cover, Quick Connect Terminals

Dimensions

Units = mm



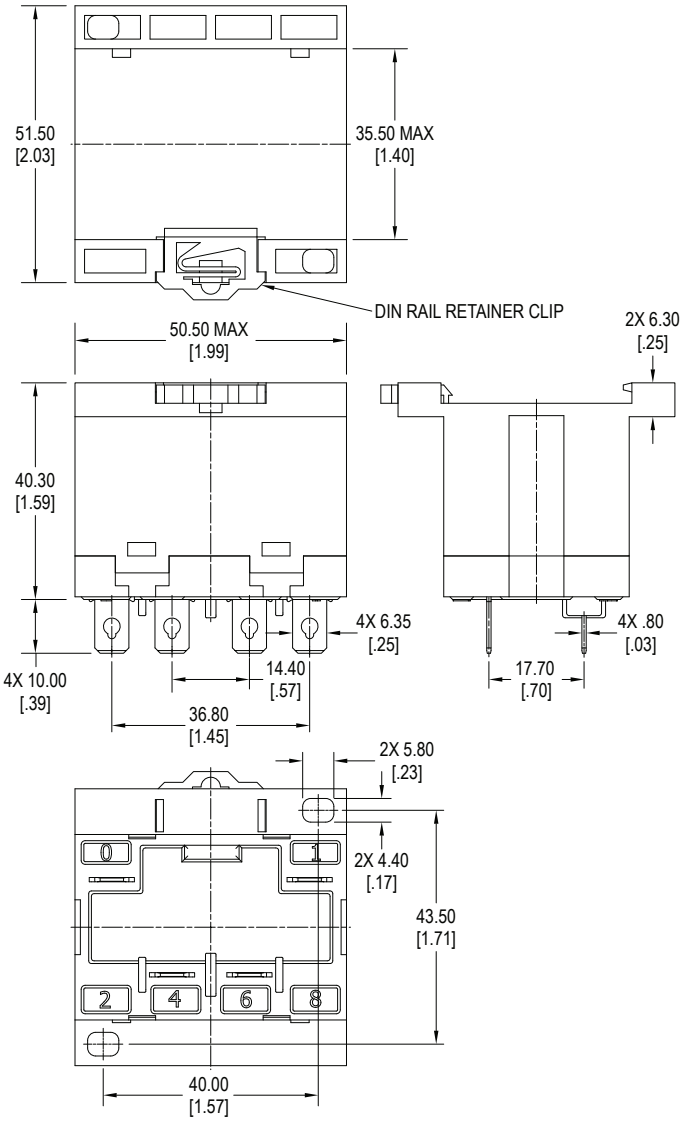
1A DIN Rail Cover, Screw Terminals



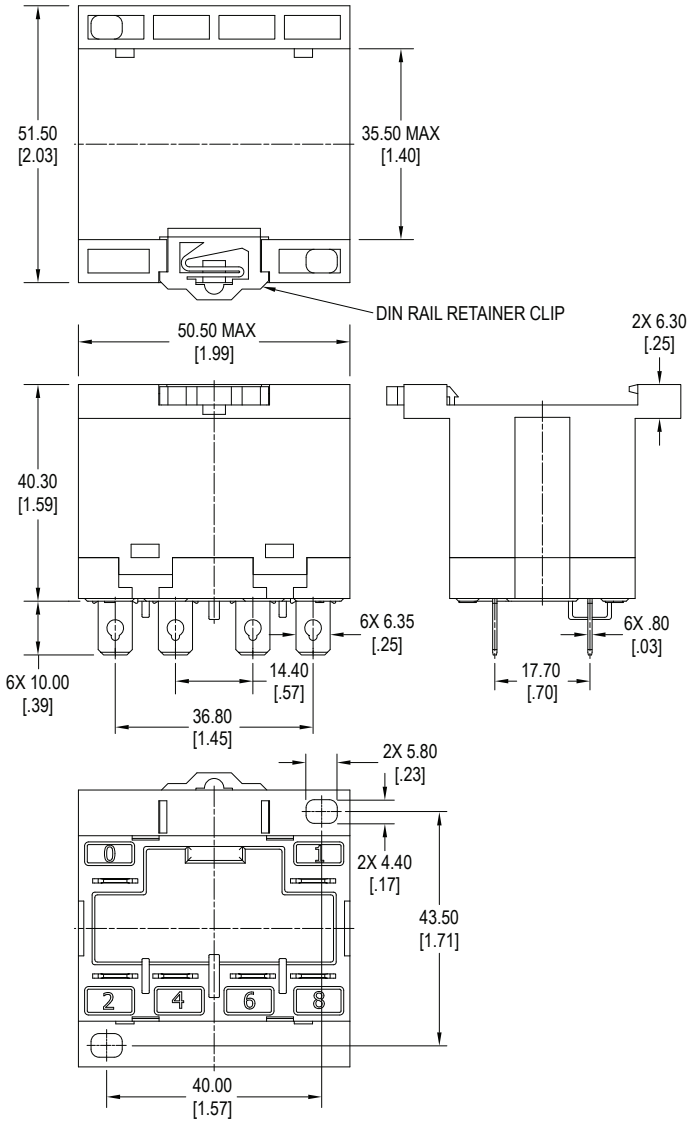
2A DIN Rail Cover, Screw Terminals

Dimensions

Units = mm



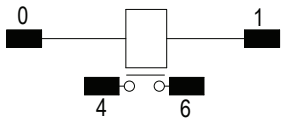
1A DIN Rail Cover, Quick Connect Terminals



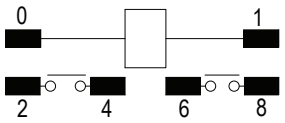
2A DIN Rail Cover, Quick Connect Terminals

Schematics & PC Layouts

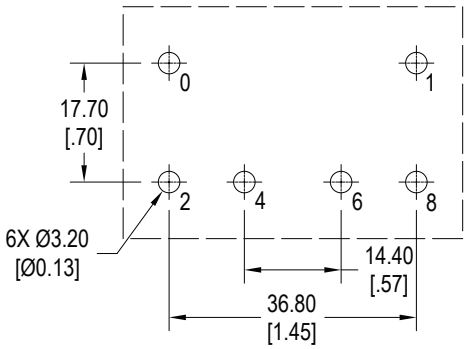
Bottom Views



1A



2A



Test Button