

Technical Datasheet

TNC SWITCH

CAM SWITCH

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TNC (Trip Neutral Close) switch is 3 position switch, mainly used for locally Breaking or closing of circuit breaker during maintenance purpose. When TNC switch is at close position then it put Circuit Breaker in operating condition by energizing the closing coil of the CB while in Trip position CB goes in OFF condition as trip coil of CB get energies . TNC switch comes with Spring Return Mechanism as it just momentarily energies the coils of CB. Ziegler TNC switch comes with a current range of 25A,32A and working mechanism according to IEC 60947-1,2 &5.

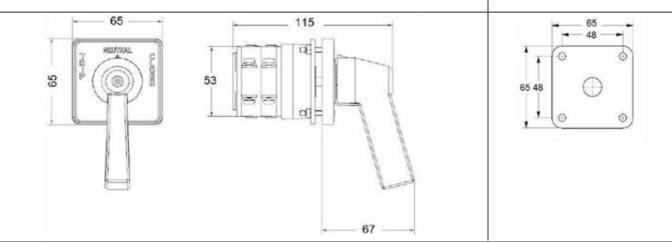
Product Features

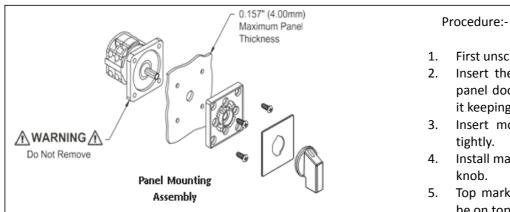
- Compact Design.
- 60° Angle of Throw.
- Pistol grip handle.
- Spring loaded mechanism.
- Standard Mounting Plate.
- IP 50 protection for front facia.
- Multi pole design.
- Quick and easy installation.
- Arrow marking on knob for long distance visibility.

TNC Dimensional Drawings



Panel Mounting





- 1. First unscrew knob and front plate.
- Insert the Cam Switch from inside of the panel door and then mount front plate on it keeping panel door in between.
- 3. Insert mounting screws and screw them tightly.
- Install marking plate on it and follow it with knob.
- 5. Top marking Sticker on Front Plate should be on top side of the switch.

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TECHNICAL SPECIFICATION

Technical Data								
Description	Unit	TNC 25	TNC 32					
Rated Operational Voltage Ue		V AC	690	690				
		V DC	250	250				
Resistance to Surge Voltage Uimp		kV	6	6				
Rated Uninterrupted Current Ith		А	32	40				
Rated Operational	Rated Operational Current Pilot Duty AC15 Ie							
220-240 V AC	220-240 V AC			14				
380-440 V AC	380-440 V AC			6				
Short Circuit Protection HRC Fuse Size	Short Circuit Protection HRC Fuse Size			32				
Rated Short Circuit	Rated Short Circuit			10				
Terminal Cross Section								
	min	2	1.5	2.5				
Rigid Wire		mm ²	4	6				
		2	1	1.5				
Flexible Wire	max	mm ²	2.5	4				
Terminal Screw		M4	M4					
Terminal Tightening Torque		1.2 Nm	1.2 Nm					

General Endurance:-Mechanical - 100,000 operations at 300 cycles/hour

Electrical - 10,000 Operations at 120 cycles/hour Operational Temperature 25°C to 55°C, frequency up to 5kHz

DC Breaking Capacity										
		TNC 25			TNC 32					
	No. of		Indu	uctive L/R	Amps		Inductive L/R Amps			
Voltage	Contacts in	Resistive	10	20	40	Resistive	10	20	40	
	series	Amps	msec	msec	msec	Amps	msec	msec	msec	
	1	20	20	15	6	25	25	18	8	
50 V	2	-	-	20	14	-	-	25	18	
Γ	3	-	-	-	20	-	-	-	25	
	1	3	2.5	1.5	1.0	5	3	2	1.2	
125 V	2	20	15	10	5	25	18	12	6	
125 V	3	-	20	20	10	-	25	v	12	
	1	1.0	0.5	0.3	0.2	1.2	0.6	0.4	0.3	
250 V	2	5	2	1.0	0.5	6	2.5	1.2	0.6	
230 V	3	20	10	4	1	25	12	5	1.2	

AC DUTY RATINGS

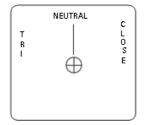
Category	Typical AC Application
AC-1	Non-Inductive or slightly inductive loads, Resistance furnaces
AC-3	Squirrel-cage motors: starting switching off motors during running
AC-15	Control of AC electromagnetic loads.
AC-21-A	Switching of resistive loads, including moderate overloads (frequent switching)
AC-23-A	Switching of motor loads or other highly inductive loads(frequent switching)

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Ordering Information

TRCX	X	X	X	XX	X	X	X	X	XX	XX
TSR1 : TNC 1NO 1NC Switch										
TSR2 : TNC 2NO 2NC Switch										
Ampere code :										
A : 25A	А									
B : 32A	В									
ТҮРЕ										
2 : 1NO 1NC		2								
4 : 2NO 2NC		4								
NO of POLE			_							
2 : 2 pole			2							
4 : 4 pole			4							
Max. no of ways :										
01 : 1 way				01						
Neutral										
N : with Neutral					Ν					
Angle						6				
6 : 60 Degree										
Knob Shape										
L : Pistol shape							L			
Front Plate Color							L			
A : Silver sheet and Black								Α		
B : Yellow sheet and Red								В		
Blank									00	
Customer Specification									00	00



Sr. No.	Ordering Code	Description
1	TSR1-A2201N6LA0000	TNC 25A 1NO 1NC 60D
2	TSR2-A4401N6LA0000	TNC 25A 2NO 2NC 60D
3	TSR1-B2201N6LA0000	TNC 32A 1NO 1NC 60D
4	TSR2-B4401N6LA0000	TNC 32A 2NO 2NC 60D



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