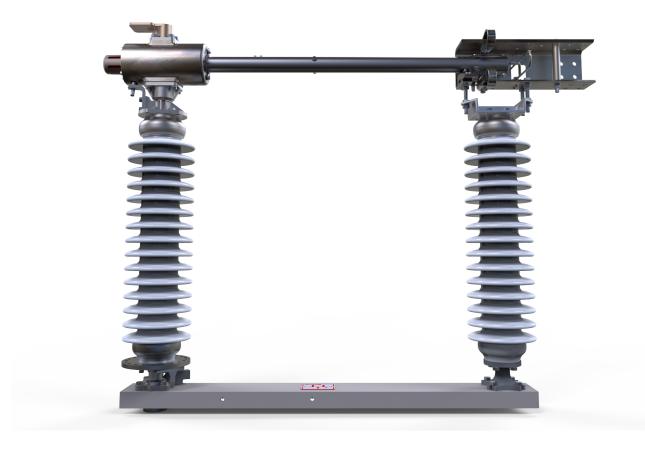


BearTrap[™] TU-1TS2

1-way Aluminum Side Break Switch



TU-1TS2

Hubbell has a policy of continuous product improvement. Please visit hubbellpowersystems.com to confirm current design specifications.





Product Information

Overview

The TU-1TS2 1-way switches mounting flexibility allows for horizontal, vertical or underhung installation in substations.

Features of the TU-2TS2 Beartrap

- Speed Independent operation—can be closed either fast or slow
- Reverse-loop, silver plated copper jaw contacts— employ the natural repulsion of magnetic fields moving in opposite directions to exert holding forces against the blade edges.
- Components—The 6063-T6 aluminum tubular blade design provides the proper combination of current carrying capacity and rigidity. Silver-plated copper profiles are easily field-replaceable, as are the stationary and moving arcing horns.
- Blade Action—Both the blade and jaw contacts are wiped clean during the closing action
 to ensure a low re-sistance current transfer. A heavy-duty static blade locking device keeps
 the blade closed despite temporary faults or surge currents and is designed to pull the blade
 further into the jaw.
- Anti-Rollover Device—The BearTrap Switch from Turner employs a patented ramp and pin to securely position the blade in the jaw.
- Blade Position Indicator—High visibility stickers provide positive indication of the switch being open or closed. They also have high UV protection and come standard on every switch.
- Current Transfer—There are only two current transfer points in the hinge. The terminal pad is
 threaded to a stationary contact block creating a spring loaded, silver to silver connection,
 and the housing transfer current to the blade via a canted coil spring.
- Upgrade-Ability—Ratings can be increased from 600 amps to 1200 amps by adding bolt-on contact fingers to the jaw.
- Main Bearing Assembly And Stationary Insulator Mounting—The main pivot bearing assembly consists of two tapered roller bearings, which are adjusted and factory lubricated.
- Leveling —Leveling screws are provided on the movable and stationary insulator mounting flange for alignment of the insulator stacks.
- Mounting—All frames are designed and constructed for termination of the transmission line a
 10,000 pounds working load. Line angles at full tension are limited to +/-5 Degrees of 90 or
 180 Degree dead end. If there is an application outside of these parameters, please contact
 the factory. Generally, 2 and 3 way switches at 115kV and above must be mounted on steel,
 concrete, or laminated wood poles.

Accessories (Operating Mechanism complete with any of the following)

- Swing Handle (standard)
- Worm Gear
- Motor Operator

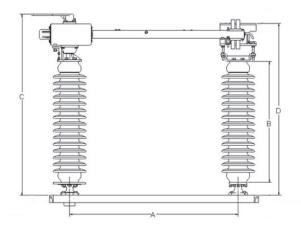
Load Break Devices

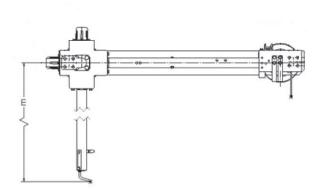
- TECORupters
 - Full Load Break
 - Loop Split
 - Line Charging
- High Speed Quick Whips

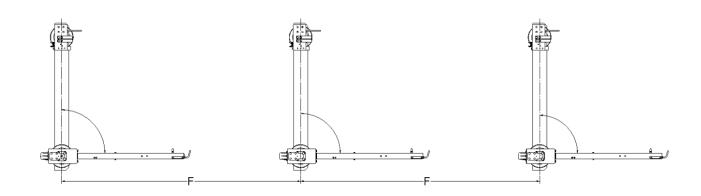




Configurations







Dimensions (inches)							
kV	Α	В	С	D	E	F	F*
38	25	29	33	18	78	57	89
48	30	34	37	22	84	64	96
72	42	46	45	30	98	89	120
123	60	64	62-1/4	45	123-1/2	162	215
145	72	76	71-1/4	54	132-3/4	177	239
170	84	88	79-1/4	62	142-1/4	196	265

F* - with TECO-Ruptor

F* - and F dimensions are minimum required





Numbering Sequence

TU-1TS2	V	Α	I	Р	TR	LB	OP
	038	06	INC	3		QW	SH
	048	12	NA	5	655	VI	WG
	072	20	SIP		SEE CHART		MO
	123		DS			LS	
	145					FL	
	170						

Variant Configuration Key

Insulator Shipping Methods

Load Break Devices

V - Voltage (kV)

A - Current (A)

I - Insulator Ship Method

P - Pivot Size (inches)

TR - Insulator TR

LB - Load Break Device

OP - Operator

INC - With Insulators

NA - Insulators Not Included

SIP - Ship in Place

DS - Direct Ship

QW - Quick Whip

VI - Vacuum Interrupter

• FL - Full Load

• LS - Loop Split

Mounting

OPERATOR

Example

V - Vertical

H - HorizontalU - Underhung

SH - Swing Handle **WG** - Worm Gear **MO** - Motor Operator TU-1TS20721INC3216VIFLSH

kV	BIL	TR	Whip Rating (A)	ACCC
38	200	210	18	D06
48	250	214	16	D06
72	350	216	12	D06
123	550	286	10	D06
145	650	288	10	D06
170	750	291	10	D06

Continuous Current (A)	Short Time Rating- 3 Sec (kA)	Peak Withstand Current (kA)		
600	25	65		
1200	38	99		
2000	63	164		



