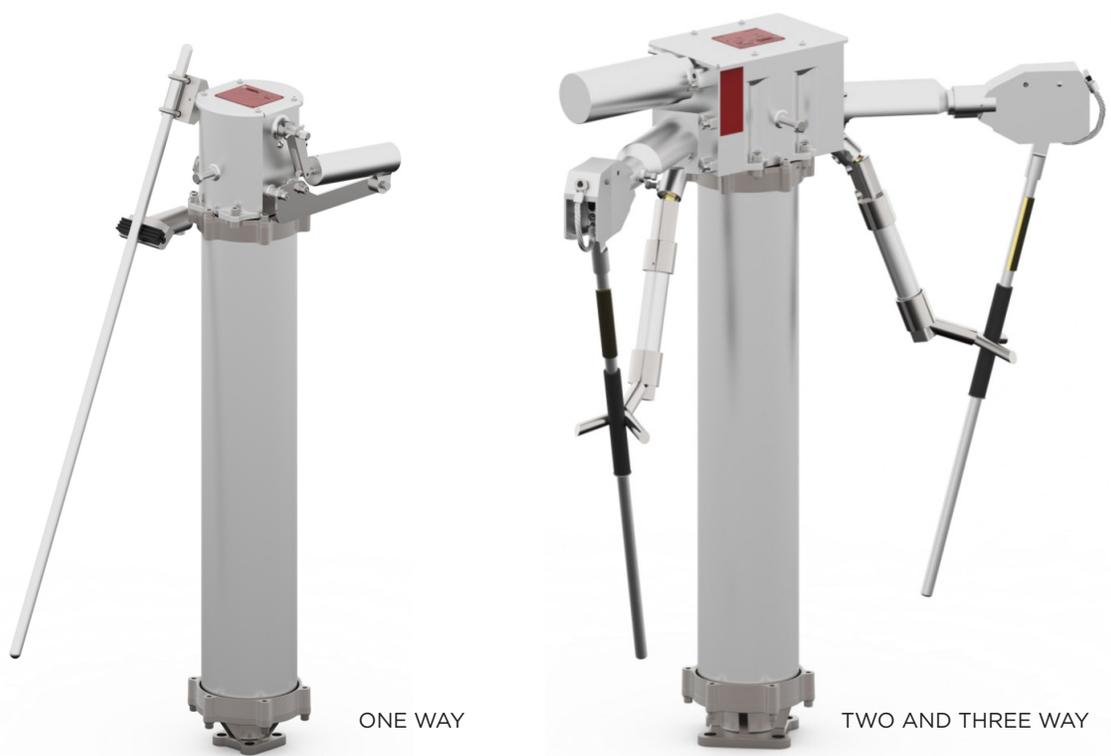


# TURNER ELECTRIC<sup>®</sup> TECORupter<sup>®</sup>

## VACUUM CIRCUIT INTERRUPTION

The Turner TECORupter vacuum circuit interrupter is offered as an attachment to the Turner switch, as well as designs of other switch manufacturers. The interrupter can be attached to vertical break, side break, hooksticks, double end breaks, and center break switch designs. Different models of the TECORupter can interrupt various types of circuits. Designed to IEEE 1247, the TECORupter is the choice for circuit interruption.



### INTERRUPTER TYPE

RLB - Full Load Break

RLS - Loop Split

SC - Single Contact 69kV

# INTERRUPTING CAPABILITIES

kV	TECORrupter Vacuum Interrupters									Turner Quick Whips	Arcing Horns
	Type RLS			Type RLB			Type SC				
	Loop Split	Load Break	Line Charging	Loop Split	Load Break	Line Charging	Loop Split	Load Break	Line Charging		
15	3000A	3000A	100A	3000A	3000A	100A	2000A	2000A	100A	24A	18A
23	3000A	3000A	100A	3000A	3000A	100A	2000A	2000A	100A	22A	14A
34	3000A	3000A	100A	3000A	3000A	100A	2000A	2000A	100A	18A	10A
46	3000A			2000A	2000A	100A	2000A	2000A	100A	14A	8A
69	3000A			2000A	2000A	100A	2000A	2000A	100A	12A	6A
115	3000A			2000A	2000A	100A				7A	3A
138	3000A			2000A	2000A	100A				6A	3A
161	3000A			2000A	2000A	100A				4A	2A
230	3000A			2000A	2000A	100A				2A	1A

## Full Voltage Interrupters

These units are used in applications where full system voltage is required to be interrupted, i.e. full system voltage will still exist only on one side of the switch after the open operation. The vacuum contact itself has a maximum peak recovery voltage rating of 50kV and this rating determines the number of contacts required in the interrupter stack. The contacts are stacked in series at 34.5kV and above, whereas 15kV and 23kV interrupters will have the capabilities described with a single contact. The units are capable of interrupting:

- Loop or Parallel circuits up to 3000A with a lagging Power Factor of >70%.
- Line charging or transformer magnetizing currents up to 100A with a leading Power Factor of <20%.
- Full system current and voltage, up to 230kV, 2000A with a lagging Power Factor of >70%.
  - At 2000A up to 230kV
  - At 3000A up to 34.5kV

## Loop Split Interrupters

Generally, these are single contact devices because the unit will only have to interrupt limited amounts of voltage, i.e. full system voltage will still exist on both sides of the switch after the open operation. As a rule of thumb, the voltage difference is less than 10% of the system voltage. Ordinarily, the peak recovery voltage is well inside the 50kV or 80kV rating of specific single contact. In applications where the peak recovery voltage exceeds this rating, additional contacts can be added. This device can only be used to split loop or parallel circuits up to 3000A with a lagging Power Factor of >70%.

## Limited Duty Interrupters

Some systems are required to be run at currents higher than the capabilities of the Full Load Interrupters. In those cases, we supply Limited Duty Interrupters that have the ratings of the Full Load, but the ability to mount to the higher current switches. The difference in the kits is the mounting hardware, that are tailored for each individual set up.

## Arcing Horns / Quick Whips

The capability of these devices is voltage dependent. As the voltage increases, the current it can interrupt successfully decreases. The values reported are conservative. Since air is dielectric, certain environmental factors such as air quality, humidity, and prevailing winds should be taken into consideration.