

Step Voltage Regulator PVR-32_

Regulating Features

IEC PVR-32 feeder voltage regulators are single phase tap-changing auto-transformers designed to automatically regulate distribution line voltages from ten percent raise(boost) to ten percent lower(buck) in 32steps approximately 5/8% each.

■ Type

- Mounting : Out-door pole or ground
- Cooling : Oil-filled Self-cooling
- Type : Auto-transformer with on-load tap-changer

■ Ratings

- Voltage : 2.5KV(60KV BIL) through 20KV(150KV BIL)
- Current : 50 Through 650Amps
- KVA : 50 through 833KVA
- Frequency : 50 or 60 Hertz

■ Applicable standard

IEC PVR-32 voltage regulators are designed, manufactured and tested in accordance with the requirements of ANSI Standard C57.15.

IEC PVR-32 voltage regulators are designed for reliable operation and ease of maintenance and are supplied with a full array of standard features for routine applications. The use of 65C rise insulation system in 55C rated designs provides an extra 12% capacity for the PVR-32 regulator without loss of insulation life.

IEC PVR-32 voltage regulator's complete internal assembly (including tap-changer switch, motor, core and coil assembly) is mounted to the cover. This construction, simplifies removal of the internal assembly for inspection, maintenance and repair.

Load Current & KVA Ratings. 60Hz

Voltage(KV)	Load Current(Amperes)	KVA
2.5KV 60KV BIL	200	50
	300	75
	400	100
	500	125
	668	167
5.0KV 75KV BIL	100	50
	150	75
	200	100
	250	125
	334	167
	500	250
7.62KV 95KV BIL	668	333
	50	38
	75	57
	100	76
	150	114
	219	167
	328	250
13.8KV 95KV BIL	438	333
	546	416
	656	500
	50	69
	100	138
	150	207
	200	276
14.4KV 150KV BIL	300	414
	400	552
	483	667
	604	833
	50	72
	100	144
	200	288
19.92KV 150KV BIL	231	333
	300	432
	400	576
	463	667
	578	833
	50	100
	100	200
19.92KV 150KV BIL	167	333
	200	400
	335	667
	418	833
	502	1000
	502	1000

Pole Mounted Automatic Voltage Regulator_

Solid type

High creep porcelain Bushing

Clamp type Terminal

for ease connection

The regulator's complete internal assembly

(including tap-changer switch, motor, core and coil assembly) is mounted to the cover.

This construction simplifies removal of the internal assembly for inspection, maintenance, and repair.



Automatic Control Panel

Sampling and drain valve

ADD-AMP

ADD-AMP feature allow PVR-32 regulators to handle increased current capacity by reducing the regulation range.

This is accomplished by setting the raise and lower limit switches located on the tap position indicator to prevent the tap changer from traveling above or below the designed settings.



Series arrester

Each regulator is equipped with an appropriately sized MOV-type surge arrester to protect the series winding of the regulator from damage due to line surges, such as can result from lightning, switching surge, and line faults.

Oil level gauge

Two name plate

pressure relief device



Sealed tank

Construction features to prevent moisture and air from entering the internal environment.

Tanks are constructed of mild steel or stainless steel and electro-statically coated with a tough polyester powder finish.

