

TYPE GN3E & GN3VE AUTOMATIC SECTIONALIZER

EQUIPMENT SPECIFICATIONS: Types GN3E & GN3VE Automatic Sectionalizer

RATINGS

Sectionalizer Electrical Ratings:

	<u>GN3VE</u>	<u>GN3E</u>
Maximum Design Voltage, kV	27	15.5
Nominal Operating Voltage, kV	24.9	14.4
Impulse Withstand 1.2 x 50 Microsecond Surge (BIL), Crest kV	125	110
60 Hertz Withstand Voltage, kV		
Dry, One Minute	60	50
Wet, Ten Seconds	50	45
Radio Influence Voltage		
@ 16.4 kV, Microvolts (max)	100	
@ 9.41kV		100
Max. Continuous Current, Amperes	200	200
Maximum Interrupting Current		
RMS Symmetrical Amperes	440	440
X/R or P.F. at Maximum Current, %	70	70
Short Time Current Ratings		
Momentary RMS Asymmetric Amps	9000	9000
Close and Latch RMS Asymmetric Amps	9000	9000
One Second Current, Amps	5700	5700
Ten Second Current, Amps	2600	2600
Contact Resistance per Phase, Micro-ohms	430-670	430-670

OPERATION

The three-phase automatic sectionalizer shall be oil insulated with electronic control.

The sectionalizer shall have the ability to sense fault currents, either phase-to-phase, or phase-to -earth.

The sectionalizer shall be capable of opening during the first, second, or third open interval of an auto reclose device on its source side.

Opening of the sectionalizer shall be accomplished by energy storage springs charged by the closing operation.

The minimum phase fault level to actuate shall be 16 amps.

The minimum earth fault level to actuate shall be 3.5A.

The sectionalizer shall have an automatic reset time of 7.5 minutes maximum.

The sectionalizer shall incorporate a count restraint feature which will prevent the device from registering a count as long as 3.5 amps of load current is flowing . This will prevent false counting by operation of a downline device, such as a fuse.

The sectionalizer shall incorporate a inrush restraint feature for both phase and earth currents. This feature shall block sensing phase faults from 5-20 cycles adjustable at 1-8 times minimum pickup, also adjustable. Earth faults should be completely blocked from .5 to 5 seconds adjustable. This feature again, will prevent false operations of the sectionalizer.

FEATURES

The sectionalizer shall be completely self-contained with power for operation supplied by internal 1000:1 CT's. Thus, no external power is required.

The sectionalizer shall be capable of interrupting load currents up to 440 amps.

Minimum actuating level shall be changed by plug-in resistors for both phase and earth.

Other operating parameters shall be changeable by means of jumper wires in the control cabinet.

The sectionalizer shall provide chemical contact position indication.

The sectionalizer shall have provisions for manual opening and closing by a hook stick.

The sectionalizer shall be capable of closing into faulted lines without damage.

The sectionalizer shall have provisions for pole mounting.

The sectionalizer shall have as an option, oil level indication by means of a dip stick.