

Voltage Monitoring Relays



600VPR-310/520V
90(H) x 17.5(W)mm

600VPR-170/290V
90(H) x 17.5(W)mm



800VPR-3
76.85(H) x 22.5(W)mm

FEATURES	<ul style="list-style-type: none"> • Monitors under & over voltage • Monitors phase sequence & failure • LED indication : Power ON, Fault condition • Space saving design 		<ul style="list-style-type: none"> • Monitor under & over voltage • Monitor phase sequence & failure • LED indication : Power ON, Fault condition
MODES	Under voltage : 310 to 405V AC Over voltage : 425 to 520V AC Phase sequence : YES Phase failure : YES Reset : Auto reset on removal of fault condition	Under voltage : 170 to 224V AC Over voltage : 236 to 290V AC Phase sequence : YES Phase failure : YES Reset : Auto reset on removal of fault condition	Under voltage : 310 to 405V AC Over voltage : 425 to 520V AC Phase sequence : YES Phase failure : YES Reset : Auto reset on removal of fault condition
TIME RANGES	Trip time delay : 0.2 to 10sec Power On delay : 400msec		Trip Delay : 0 to 10s (For under voltage and over voltage) : Instantaneous (For phase failure & phase sequence)
ACCURACY	Trip Voltage : $\pm 0.5\%$ of F.S, Trip Time : $\pm 5\%$ of F.S		
OUTPUT CONTACT	1 C/O (SPDT)		
OUTPUT RATING	NC : 3A@250V AC, NO : 5A@250V AC		
ELECTRICAL CONNECTION	3Ø - 3W		
OPERATING VOLTAGE	310 to 520V AC (L - L)	170 to 290V AC (L - L)	310 to 520V AC (L - L)

Voltage Monitoring Relays



900VPR-2
90(H) x 35(W)mm



900VPR-BL-U
90(H) x 35(W)mm

FEATURES	<ul style="list-style-type: none"> Monitors under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure and Phase sequence Two separate alarm relays LED indication : Power ON, Fault condition 	<ul style="list-style-type: none"> Monitors under voltage, Over voltage, Under frequency, Over frequency, Phase asymmetry, Phase failure, Phase sequence and Neutral loss Two alarm relays with NO or NC operation selectable LED indication : Fault condition
MEASUREMENTS	Under / Over voltage, Under / Over frequency, Phase asymmetry, Phase failure, Phase sequence, (Neutral failure applicable only for 900VPR-BL-U)	
DISPLAY	3 digit LCD	3 digit LCD with backlight
ALARM INDICATIONS	Trip	
ELECTRICAL CONNECTION	3Ø - 3W, 3Ø - 4W	
TRIP SETTING	Under / Over voltage : 280 to 520V AC L-L (for 3Ø - 3W), 160 to 300V AC L-N (for 3Ø - 4W) Under / Over frequency : 45 / 65Hz, Voltage asymmetry : 5.0 to 99.9%	Under / Over voltage : 85 to 500V AC L - L (for 3Ø - 3W), 50 to 288V AC L - N (for 3Ø - 4W) Under / Over frequency : 45 / 65Hz, Phase asymmetry : 5.0 to 30.0%
TRIP TIME SETTING	Power ON Delay : 2 to 99.9sec, Trip Time Delay : 0 to 99.9sec Recovery Time Delay : 0 to 99.9sec, Response Time : <200ms	Power ON delay : 0.5 to 300sec, Trip time delay : 0 to 300sec Recovery time delay : 0 to 300sec (In Auto Reset Mode), Response time : <120ms
HYSTERESIS	Voltage : 1.0 to 99.9V, Frequency : 0.2 to 2Hz, Asymmetry: 2 to 20%	Voltage : 1.0 to 40V, Frequency : 0.1 to 2Hz, Asymmetry : 2 to 20%
RESOLUTION	Voltage : 1V, Frequency : 0.1Hz	
ACCURACY	Voltage : ±1% of set value, Frequency : ±0.3Hz, Time (Recovery time, Trip delay, Power on delay) : ±5% of setting +200ms	Voltage : ±1% of set value ±2 digits, Frequency : ±0.5% ± 1 digits, Time (Recovery Time, Trip delay, Power on delay) : ±5% of setting ±120ms
OUTPUT CONTACT	2 x 1 C/O (SPDT)	
OUTPUT RATING	NO : 5A@250V AC, NC : 3A@250V AC	
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	Self powered, Operating voltage : 280 to 520V AC (L - L), 160 to 300V AC (L - N)	85 to 270V AC / DC

Voltage Monitoring Relays



VPRA2M
90(H) x 35(W)mm



VPRD2M
90(H) x 35(W)mm

FEATURES	<ul style="list-style-type: none"> Monitors under voltage, Over voltage Monitors phase asymmetry, Phase failure, Phase sequence Adjustable over and under voltage trip level Adjustable trip time delay 	<ul style="list-style-type: none"> Monitors under voltage, Over voltage Monitors phase asymmetry, Phase failure, Phase sequence Adjustable switching hysteresis One relay with two change over alarm relay operation
MEASUREMENT	Under voltage, Over voltage, Phase failure, Phase sequence, Phase asymmetry	
DISPLAY	Separate LED indications for Power ON, Phase failure, Under voltage, Over voltage, Phase sequence, Phase asymmetry	3 digits LCD
ELECTRICAL CONNECTION	1Ø - 2W, 3Ø - 4W	
TRIP SETTING	Under voltage : 55 to 95% of Un [127 to 219V AC (L - N)] Over voltage : 105 to 125% of Un [242 to 288V AC (L - N)], Phase asymmetry : > 10%	Under voltage : 127 to 219V AC (L - N) Over voltage : 242 to 288V AC (L - N), Phase asymmetry : 5 - 30 %
TRIP TIME SETTING	Power ON delay : 0 to 15sec, Trip time delay : 0 to 15sec Recovery time delay : 5sec ± 200ms, Phase sequence trip delay <250msec	Power ON delay : 0.5 to 300sec, Trip time delay : 0 to 300sec Recovery time delay : 0 to 300sec, Phase sequence trip delay <150msec
HYSTERESIS	Voltage : 7V (±2V) of trip voltage	Voltage : 1.0V - 99.9V, Asymmetry : 2 to 20%
ACCURACY	Trip setting : ±5% of F. S., Time setting : ±10% of F. S.	Voltage : ±1% ±2 digits, Time setting : ±5% of settings ± 150ms
OUTPUT CONTACT	2 C/O (DPDT)	
OUTPUT RATING	NC : 5A@250V AC, NO : 5A@250V AC	
SUPPLY VOLTAGE (AC : 50 / 60 Hz)	Self powered, Nominal input voltage (Un) : 230V AC (L - N), Operating voltage : 127 to 288V AC (L - N)	