Voltage Protection Relay

600DVR-CE



Features :

- Over Voltage, Under Voltage, Over Frequence, Under Frequence, Phase Asymmetry, Phase Failure, Phase Sequence and Neutral Loss Monitoring.
- True RMS Measurement
- Power On Delay, Trip Time Delay and Recovery Time Delay
- Adjustable Switching Hysteresis

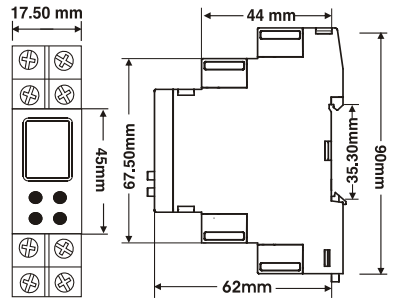
Certifications : CE

Technical specifications

Display specifications			
Display type	Liquid crystal display with backlight		
Total number of digits	6		
Number of keys	4		
Display specifications			
Fault display	**Description**	**Fault display**	**Description**
t.OV	Over voltage	t.AS	Phase Asymmetry
t.UV	Under voltage	t.SQ	Phase Sequence
t.OF	Over frequency	t.PL	Phase Loss
t.UF	Under frequency	t.NL	Neutral Loss
Input specifications			
Operating voltage range	3Ø - 3 wire (L-L): 280 - 600V AC 3Ø - 4 wire (L-N): 160 - 300V AC		
VA rating	25 VA max		
Frequency	45-65 Hz		
Voltage accuracy	±1% of full range		
Time accuracy	±5% of set value ± 250ms		
Output specifications			
Type of relay	1 SPDT Relay (1C/O)		
Relay contact rating	NO : 5A@250V AC / 30VDC (Resistive) NC : 3A@250V AC / 30VDC (Resistive)		
Electrical endurance	10^5		
Mechanical endurance	10^6		
Hysteresis			
Voltage	1.0V - 99.9V		
Frequency	0.2 - 2.0Hz		
Asymmetry	2.0 - 20%		
Trip settings			
Under voltage	280 to 600V AC (L-L) [3Ø – 3 wire] 160 to 300V AC (L-N) [3Ø – 4 wire]		
Over voltage	280 to 600V AC (L-L) [3Ø – 3 wire] 160 to 300V AC (L-N) [3Ø – 4 wire]		
Under frequency	45 - 65 Hz		
Over frequency	45 - 65 Hz		
Phase asymmetry	5 - 99%		

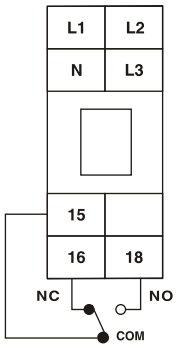
Time Settings	
Power ON delay	0 - 999 sec
Trip time delay	0 - 999 sec
Recovery time	0 - 999 sec
Response Time	
Under voltage	<120ms
Over voltage	<120ms
Phase asymmetry	<120ms
Phase loss	<250ms
Phase sequence	<250ms
Resolution	
Voltage	1 V
Frequency	0.1 Hz
Environmental specifications	
Temperature	Operating : 0 to 55°C Storage : -20°C to 70°C
Humidity	Up to 95% RH, Non-condensing
Mechanical specifications	
No of push buttons	4
Size	17.5mm width
Mounting	Din Rail mount
Wire size (max)	4 sq.mm
Screw tightening torque	0.6-0.8 N-M
Weight	75 gms
Product standard	IEC 60255-1 / IEC 60947-5-1

Dimensions (All are in mm)

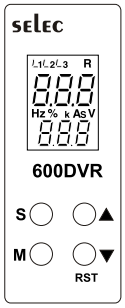


Outline dimensions (in mm)

Terminal connections



Front panel



Compliance

Applicable EMC standards	
Product standard - IEC 60255-1/IEC 60947-5-1	
Category	**Reference standards**
Electrostatic discharge	IEC 61000-4-2
Electrical fast transient / Burst	IEC 61000-4-4
Electromagnetic field	IEC 61000-4-3
Surge	IEC 61000-4-5
Conducted RF	IEC 61000-4-6
Rated power frequency	IEC 61000-4-8
Conducted emissions	CISPR-22
Radiated emissions	CISPR-11

Environmental

Product standard : IEC 60255-1/IEC 60947-5-1

Safety test standard : IEC 61010-1

1. High voltage test
2. Impulse voltage withstand test
3. Resistance to heat test
4. Single fault test
5. Temperature rise test

Ordering information

Product code	Supply voltage	Certification
600DVR-CE	280 to 600V AC	CE