- Under voltage, over voltage, under frequency, over frequency, asymmetry, phase failure and phase sequence monitoring in 3Ø system
- RMS measurement
- Power ON delay, Trip time delay and Delay on release
- LED Indication: Relay ON, Power ON
- Adjustable switching hysteresis
- Two separate alarm relays
- Din-Rail Mount

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Voltage Phase Monitor

SPECIFICATIONS

ENVIRONMENTAL SPECIFICATION	
DISPLAY	Liquid Crystal Display 3 Digits

INPUT SPECIFICATIONS	
FUNCTIONS	
MEASUREMENTS	Voltage (V_{L-N}, F_{L-L}), Frequency, Phase Asymmetry, Phase Failure, Phase Sequence
TIME SETTING	Power ON delay, Trip time delay and Delay on release
ALARM INDICATIONS	Trip
LATCHING	Selectable
RESET	Auto/Manual reset
ELECTRICAL CONNECTION	3Ø-3 wire, 3Ø-4 wire
SUPPLY VOLTAGE	Self powered
OPERATING RANGE	280 - 520V AC (L-L) 160 - 300V AC (L-N)
VA RATING	30VA max.
FREQUENCY	45 - 65Hz
MEASURING RANGE (RMS Value)	280 to 600V AC (L-L) [for 3Ø-3 wire] 160 to 300V AC (L-N) [for 3Ø-4 wire]

TRIP SETTINGS	
UNDER VOLTAGE	280 to 600V AC (L-L) [for 3Ø-3 wire] 160 to 300V AC (L-N) [for 3Ø-4 wire
OVER VOLTAGE	280 to 600V AC (L-L) [for 3Ø-3 wire] 160 to 300V AC (L-N) [for 3Ø-4 wire]
UNDER FREQUENCY	45 - 65Hz
OVER FREQUENCY	45 - 65Hz
PHASE FAILURE	Yes
PHASE SEQUENCE	Yes
PHASE ASYMMETRY	5.0 - 99.9%

* For 3Ø-3W, at least 2 phase must be present
* For 3Ø-4W, at least 1 phase must be present

TRIP TIME SETTINGS	
POWER ON DELAY	2 - 99.9 Sec
TRIP TIME DELAY	0 - 99.9 Sec
DELAY ON RELEASE	0 - 99.9 Sec
RESPONSE TIME	<200ms

HYSTERESIS	
VOLTAGE	1.0- 99.9V
FREQUENCEY	0.2 - 2Hz
ASYMMETRY	2 - 20%

RESOLUTION	
VOLTAGE	1V
FREQUENCY	0.1Hz

ACCURACY	
VOLTAGE	±1%
FREQUENCY	±0.3Hz
TIME (Recovery Time, Trip Delay, Power ON Delay)	±5% of setting + 200ms

OUTPUT SPECIFICATIONS	
NO. OF RELAYS	2
TYPE OF OUTPUT **(Relay 1)** **(Relay 2)**	45 - 65Hz SPDT SPDT
RELAY RATING	N/O: 5A @ 250V AC N/C: 3A @ 250V AC

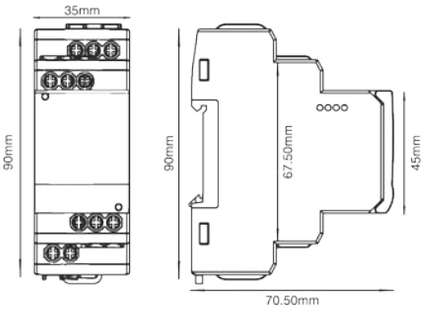
LED INDICATION	
LED 1 (Green	Power ON
LED 2 (Red)	Relay 1 (Continuously ON after trip)
LED 3 (Red)	Relay 2 (Continuously ON after trip)

ENVIRONMENTAL SPECIFICATION	
AMBIENT TEMP.	Operating Temp: 0°C to 50°C Storage Temp: -20°C to 70°C
HUMIDITY (Non-condensing)	95% RH
POLLUTION DEGREE	IP50 Faceplate IP30 Housing IP20 Terminals

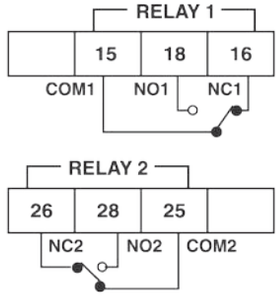
MECHANICAL SPECIFICATIONS	
NO. OF PUSH BUTTON	3
SIZE	35mm width
MOUNTING	Din Rail Mount
WEIGHT	135 g
CONDUCTOR CROSS SECTION (SOLID)	1 x (0.5 to 4) Sq. mm
CONDUCTOR CROSS SECTION (SLEEVED)	2 x (0.5 to 1.5) Sq. m
(STANDARD)	1 x 0.5 TO 2.5) Sq. mm
SCREW TIGHTENING TORQUE	0.5 N-M

EMC	
ELECTRICAL COMPATIBILITY	IEC 61326-1
ESD IMMUNITY IEC 61000-4-2	Level 3
SURGE IMMUNITY IEC 61000-4-5	±2 kV common mode, ±1 kV differential mode
RADIATED SUSCEPTIVILITY IEC 61000-4-3	Level 3, 80 - 1000 MHz
CONDUCTED SUSCEPTIBILITY IEC 61000-4-6	LEVEL 2
VOLTAGE DIPS & INTERRUPTION IEC 6100-4-11	Dips: 0% residual voltage/ 1 cycle (Crit B.) 40% residual voltage / 10 cycles 50 Hz/ 12 cycles 60 Hz (Crit C) 70% residual voltage / 25 cycles 50 Hz . 30 cycles 60 Hz (Crit C) Interruptions: 0% residual voltage / 250 cycles 50 Hz / 300 cycles 60 Hz (Crit C)
CONDUCTED EMMISSIONS	CISPR-11 & IEC 61000-6-3
RADIATED EMISSIONS	CISPR-22
ELECTRICAL FAST TRANSIENT: IEC 6100-4-4	Level 3

DIMENSIONS



TERMINAL CONNECTIONS



ORDERING INFORMATION

PART NUMBER	OPERATING RANGE
DPR350C	300-600V AC