- · Under voltage, over voltage, under frequency, over frequency, asymmetry, phase failure and phase sequence monitoring in 30 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







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)	0 - 520V AC (L-L)* 0 - 300V AC (L-N)*

TDID CETTINGS

^{*} For 3Ø-3W, at least 2 phase must be present

TRIP TIME SETTINGS

IRIP 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

RESOLUTION

ASYMMETRY

ILLOCEOTION		
VOLTAGE	1V	
FREQUENCY	0.1Hz	

2 - 20%

ACCURACY

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

Power ON Delay)

OUTPUT SPECIFICATIONS

NO. OF RELAYS	2
TYPE OF OUTPUT	45 - 65Hz
(Relay 1)	SPDT
(Relay 2)	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)

^{*} For 3Ø-4W, at least 1 phase must be present

ENVIRONMENTAL SPECIFICATION

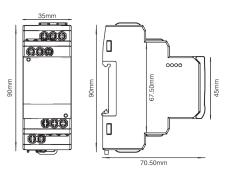
AMBIENT TEMP.	Operating Temp: 0°C to 50°C
	Storage Temp: -20°C to +70°
HUMIDITY	95% RH
(Non-condensingn)	
POLLUTION DEGREE	IP50 Faceplate
	IP30 Housing
	IP20 Terminals

MECHANICAL SPECIFICATIONS

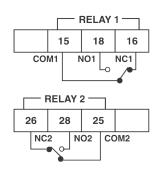
NO. OF PUSH BUTTON	3
SIZE	35mm width
MOUNTING	Din Rail Mount
WEIGHT	135 g
CONDUCTOR CROSS	1 x (0.5 to 4) Sq. mm
SECTION (SOLID)	
CONDUCTOR CROSS SECTION	
(SLEEVED)	2 x (0.5 to 1.5) Sq. m
(STANDARD)	1 x 0.5 TO 2.5) Sq. mm
SCREW TIGHTENING TOROUE	0.5 N_M

(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	Level 3
61000-4-2	2010.0
SURGE IMMUNITY	±2 kV common mode,
IEC 61000-4-5	±1 kV differential mode
RADIATED SUSCEPTIVILITY IEC 61000-4-3	Level 3, 80 - 1000 MHz
CONDUCTED SUSCEPTIBILITY	LEVEL 2
IEC 61000-4-6	LLVLL Z
VOLTAGE DIPS &	Dips: 0% residual voltage/
INTERRUPTION	1 cycle (Crit B.)
IEC 6100-4-11	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:	Level 3
IEC 6100-4-4	

DIMENSIONS



TERMINAL CONNECTIONS



	L2	L3
N	L1	