

TECHNICAL DATA SHEET FOR F3 VSR4

(Voltage Scanner, 3 Ph 3W/4W)

F3 VSR4 has a micro controller based design for monitoring Phase – Phase or Phase-Neutral voltages with a digital LCD display to indicate system supply voltage.

FEATURES F3 VSR4 :

- LCD Display.
- Touch Key-pad for parameters settings.
- Password protection for an unauthorized access.
- Wide range Aux. Supply.
- Digital readout of system supply voltages.
- Under Voltage, Over Voltage, Voltage Unbalance protection with variable trip setting.
- Single phasing (SP) and Reverse phasing (RP) protections.
- Individual Trip time delay setting.
- Individual protection bypass for UV, OV, UB, RP trip fault.
- Auto / Manual reset operation facility.
- In – built TEST/RESET facility for easy field testing.

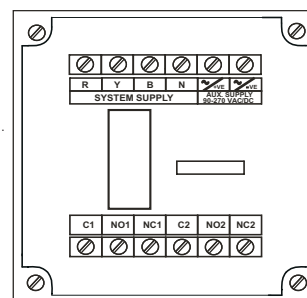
FOR 3PH - 3 WIRE SELECTION:

PARAMETER	PROGRAMMABLE SPECIFICATIONS	RESOLUTION	FACT. SET
NOMINAL VOLTAGE	380/415/440 VAC	N.A.	415VAC [PH-PH]
UNDER VOLTAGE	1 TO 80 V BELOW NOMINAL VOLTAGE	1 V	60 V
OVER VOLTAGE	1 TO 60 V ABOVE NOMINAL VOLTAGE	1 V	50 V
UNBALANCE	1 TO 20% OF AVG. MONITORING	1 %	10 %
INDIVIDUAL TRIP DELAY FOR UV,OV, UB,	1 TO 59 SEC.OR	1 SEC	3 SEC
	1 TO 5 MINUTE	1 MIN	
UV,OV,UB,RP PROTECTION BYPASS	YES/ NO	N.A	NO.
RESET	AUTO / MANUAL	N.A.	MANUAL
PASSWORD	00 TO 99 (TWO DIGITS)	1	03
FACTORY SET	YES/ NO	N.A.	NO

FOR 3PH - 4WIRE SELECTION:

PARAMETER	PROGRAMMABLE SPECIFICATIONS	RESOLUTION	FACT. SET
NOMINAL VOLTAGE	220/230/240/250VAC	10V	230VAC [PH- N]
UNDER VOLTAGE	1 TO 50 V BELOW NOMINAL VOLTAGE	1 V	40 V
OVER VOLTAGE	1 TO 25 V ABOVE NOMINAL VOLTAGE	1 V	20 V
UNBALANCE	1 TO 20% OF AVG. MONITORING	1 %	10 %
INDIVIDUAL TRIP DELAY FOR UV,OV, UB,	1 TO 59 SEC.OR	1 SEC	3 SEC
	1 TO 5 MINUTE	1 MIN	
UV,OV,UB,RP PROTECTION BYPASS	YES/ NO	N.A	NO.
RESET	AUTO / MANUAL	N.A.	MANUAL
PASSWORD	00 TO 99 (TWO DIGITS)	1	03
FACTORY SET	YES/ NO	N.A.	NO

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TERMINAL DETAILS:

- R,Y,B : PHASE VOLTAGE SENSING POINTS
- N : NEUTRAL (FOR 3PH - 4W)
- C1-NO1-NC1 : OUTPUT RELAY CONTACT
- C2-NO2-NC2 : OUTPUT RELAY CONTACT

INDICATIONS:

- P.ON (GREEN) : POWER ON
- UB/SP (RED) : UNBALANCE/ SINGLE PHASING/ REVERSE PHASING
- UV (RED) : UNDER VOLTAGE
- OV (RED) : OVER VOLTAGE

TECHNICAL SPECIFICATIONS OF F3 VSR4:

1.SYSTEM SUPPLY :	110/415V AC, $\pm 20\%$ - 30 %, (3Ø - 3W OR 3Ø - 4W SELECTABLE)
2.AUX. SUPPLY :	24VAC 90-270 V AC/DC
3.FREQUENCY :	50 Hz / (60Hz) $\pm 3\%$
4.POWER CONSUMPTION :	8 VA max.
5.OUTPUT RELAY CONTACTS :	2 CO
6.OUTPUT CONTACT RATING :	5 Amp, 240 VAC [RESISTIVE]
7.MONITORING :	PH- PH VOLTAGES OR PH - N VOLTAGES (SOFTWARE SELECTABLE)
8.POWER ON DELAY :	3.5 $\pm$ 1.5 SEC.
9.SETTINGS :	BY MEANS OF KEYBOARD [4 KEYS]
10.TEST FACILITY :	SIMULTANEOUS PRESS OF ESC & UP KEYS.
11. REVERSE PHASING TRIP DELAY:	INSTANTANEOUS (LESS THAN 1 SEC.)
12. SETTING ACCURACY :	$\pm 2\%$ OF SET PARAMETER
13. TIME ACCURACY :	$\pm 5\%$ OF SETTING (± 1 SEC FOR 1 TO 10 SEC RANGE)
14. DISPLAY :	LCD [16 X 2 CHAR. TYPE WITH BACKLIGHT]
15. DISPLAY VOLTAGE RESOLUTION	1 VOLT
16. DISPLAY ACCURACY :	$\pm (1\% + 5 \text{ VOLTS})$ OF ACTUAL VOLTAGE.
17. RESET MODE :	AUTO / MANUAL RESET [SELECTABLE]
18. RESET GAP FOR AUTO RESET FACILITY:	A) UV RESET GAP : 3 % $\pm$ 1 % OF TRIP SETTING. B) OV RESET GAP : 3 % $\pm$ 1 % OF TRIP SETTING C)UNBALANCE RESET GAP : 20 % $\pm$ 5 % OF TRIP SETTING.
19. LED INDICATIONS P. ON (GREEN) : OV (RED) : UV (RED) : UB/SP (RED) :	POWER ON OVER VOLTAGE UNDER VOLTAGE UNBALANCE / SINGLE PHASING / REVERSE PHASING
20.ENCLOSURE :	96 X 96 TYPE ENCLOSURE
21.DIMENSIONS(mm) : OVERALL [L X W X D] : MOUNTING [L X W] :	96 X 96 X 130 92 X 92 mm
22.MOUNTING :	FLUSH MOUNTING
23.OPERATING CONDITIONS TEMPERATURE : HUMIDITY :	0° TO 60° C UP TO 95% Rh
24.WEIGHT [gms.] :	800 gms (Approx.)

NOTE : In case of 3 phase - 4 wire system, for Neutral fail protection, tap Aux. supply (Phase & Neutral) from system supply sensing terminals (R or Y or B & N) & do not connect separate Aux. Supply (AC/DC).