OP3286-V03

selec

MV353-40/300V-CE

Operating Instructions



96 x 96

SPECIFICATIONS

DISPLAY
3 rows of 3 digit,
7 segment LED display 0.57 inch digit height
WIRING INPUT
3P3W and 3P4W system
RATED INPUT VOLTAGE
11 to 300V AC (L-N); 19 to 600V AC (L-L)
Installation Category II (600V)
Installation Category III (35V-480V)
PT PRIMARY
100V to 550kV (L-L) (Programmable for any value)
PT SECONDARY
100V to 500V AC (L-L) (Programmable for any value)
ACCURACY
Voltage V_{L-N}: ±0.5% of full scale
Voltage V_{L-L}: ±0.5% of full scale
Run Hour: ±1%
DISPLAY UPDATE TIME
1 sec. for all parameters
POWER CONSUMPTION
Less than 5VA
RUN HOUR
0-99999.9 hr
BURDEN
0.5VA@5A per phase
RESOLUTION
Voltage: Depends on PT ratio.
Run Hr: 0.1hr
ENVIRONMENTAL CONDITIONS
- Indoor use
- Altitude of up to 2000 meters
- Pollution degree II

Temperature : Operating : -10°C to 55°C
Storage : -20°C to 75°C
Humidity : Up to 85% non-condensing
PROTECTION CLASS: II
IP PROTECTION
Front: IP65
Back/Terminal: IP20
MOUNTING : Panel mounting
WEIGHT : 180 gm

ORDER CODE INFORMATION

Product	Supply	Certification	
		CE	cULus LISTED
MV353-40/300V-CE	40 to 300V AC/DC, 50/60Hz	✓	—

SAFETY PRECAUTIONS

All safety related codifications, symbols and instructions that appear in this operating manual or on the equipment must be strictly followed to ensure the safety of the operating personnel as well as the Instrument.

If the equipment is not used in a manner specified by the manufacturer it might impair the protection provided by the equipment.

- Do not use the equipment if there is any mechanical damage.
- Ensure that the equipment is supplied with correct voltage.

⚠ CAUTION :

1. Read complete instructions prior to installation and operation of the unit.
2. Risk of electric shock.
3. The equipment in its installed state must not come in close proximity to any heating sources, oils, steam, caustic vapors or other unwanted process byproducts.

WIRING GUIDELINES

⚠ WARNING :

1. To prevent the risk of electric shock, power supply to the equipment must be kept OFF while doing the wiring arrangement.
2. Wiring shall be done strictly according to the terminal layout. Confirm that all connections are correct.
3. Use lugged terminals.
4. To reduce electromagnetic interference use of wires with adequate ratings and twists of the same in equal size shall be made with shortest connections.
5. Layout of connecting cables shall be away from any internal EMI source.
6. Cable used for connection to power source, must have a cross section of 0.5mm^2 to 2.5mm^2 (20 to 14AWG ; 75°C (min)).
7. Copper cable should be used (Stranded or Single core cable).
8. Before attempting work on device, ensure absence of voltages using appropriate voltage detection device.

INSTALLATION GUIDELINES

⚠ CAUTION :

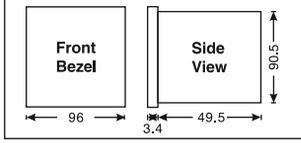
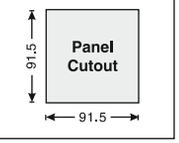
1. This equipment, being built-in-type, normally becomes a part of main control panel and in such case the terminals do not remain accessible to the end user after installation and internal wiring.
2. Conductors must not come in contact with the internal circuitry of the equipment or else it may lead to a safety hazard that may in turn endanger life or cause electrical shock to the operator.
3. Circuit breaker or mains switch must be installed between power source and supply terminals to facilitate power 'ON' or 'OFF' function. However this switch or breaker must be installed in a convenient position normally accessible to the operator.
4. Before disconnecting the secondary of the external current transformer from the equipment, make sure that the current transformer is short circuited to avoid risk of electrical shock and injury.
5. The equipment shall not be installed in environmental conditions other than those mentioned in this manual.
6. The equipment does not have a built-in-type fuse. Installation of external fuse of rating 275V AC / 0.5Amp for electrical circuitry / battery is highly recommended.

MECHANICAL INSTALLATION

For installing the meter

1. Prepare the panel cutout with proper dimensions as shown below.

2. Push the meter into the panel cutout. Secure the meter in its place by pushing the clamp on the rear side. The clamps must be secured in diagonally opposite slots.

Outline Dimensions (in mm)	Panel cutout Dimensions (in mm)
	

FRONT PANEL DESCRIPTION



ONLINE PAGE DESCRIPTION

		DESCRIPTION
Press Key (r/h)	—	Displays run hour
Press Key (V)	1st screen	Displays three phase line to neutral voltage
	2nd screen	Displays three phase line to line voltage

CONFIGURATION

There are 2 dedicated keys marked as ›, ^ .

Note: The settings should be done by a professional, after going through this users manual and after having understood the application situation.

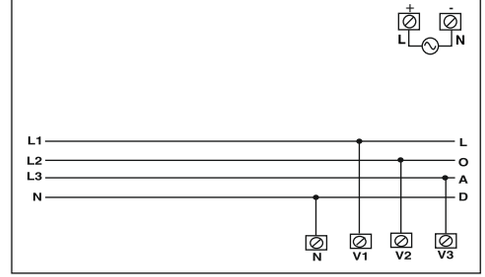
For the configuration setting mode :

- Use › + ^ these 2 keys for 3 sec. to enter & exit from configuration menu.
- Press ^ key to go to next page.
- Press › key to edit the parameter & shift the cursor for next digit to edit.
- Press ^ key to increment parameter value.
- Press › key for 5 sec. to save parameter value.
- Press ^ key for 5 sec. to set PT primary values in kilo from normal and vice versa.

Eg:- If user want to set 1300 = first
Set digit 001 then hold key ^ for 5 sec. to shift in k, then display will show 1.00k, press › shift to cursor for next digit. Next press ^ key to change values after the decimal point 1.3k and then hold › key for 5 sec. to save the parameters, it will show 1.30k.

Config. page	Function	Range or Selection	Factory Setting
1	Network Selection	3P3W and 3P4W	3P4W
2	PT primary	100V to 550K	350
3	PT secondary	100V to 500V	350
4	Reset run hour	No or Yes	No

TERMINAL CONNECTIONS

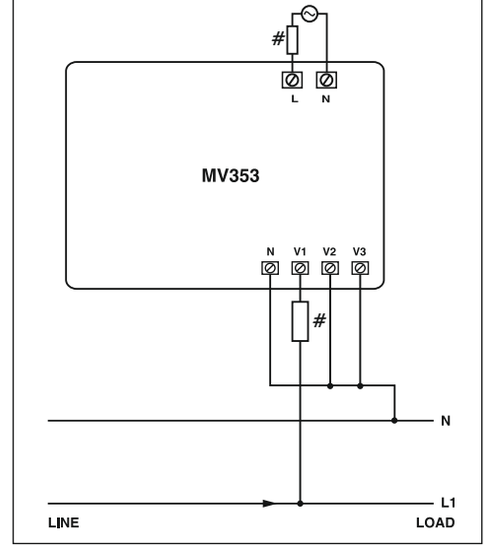


SERIAL NUMBER DESCRIPTION

Press ^ key for 3 sec. to display 9 digit serial number for 5 sec.

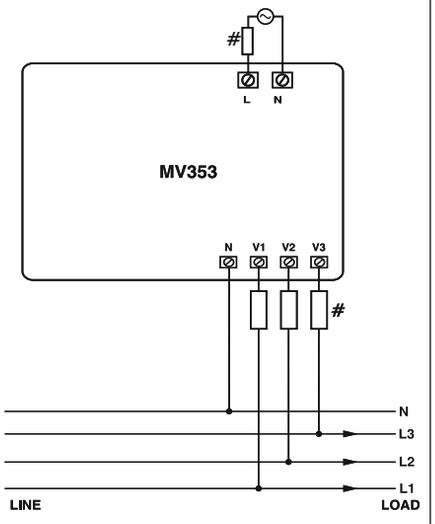
TYPICAL WIRING DIAGRAM

1 Phase - 2 Wire

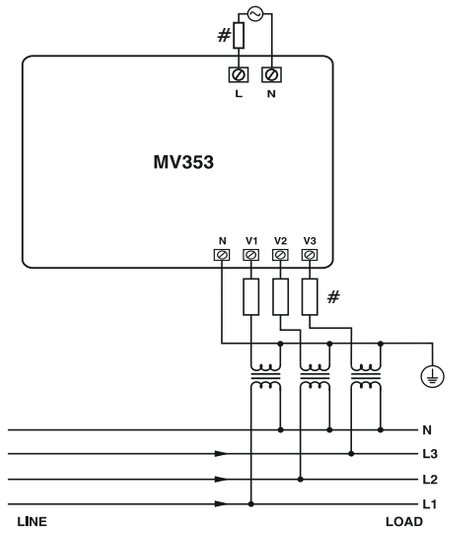


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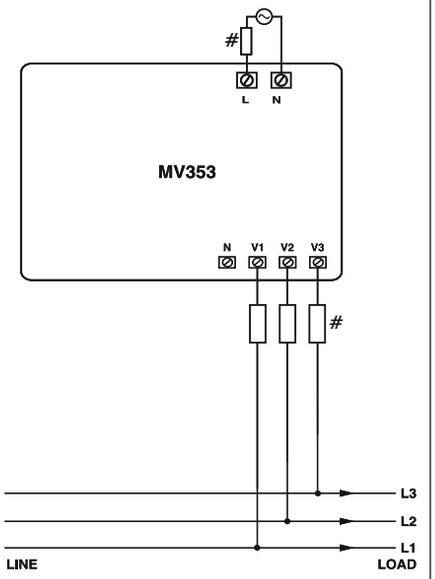
3 Phase-4 Wire(Commonly Used)



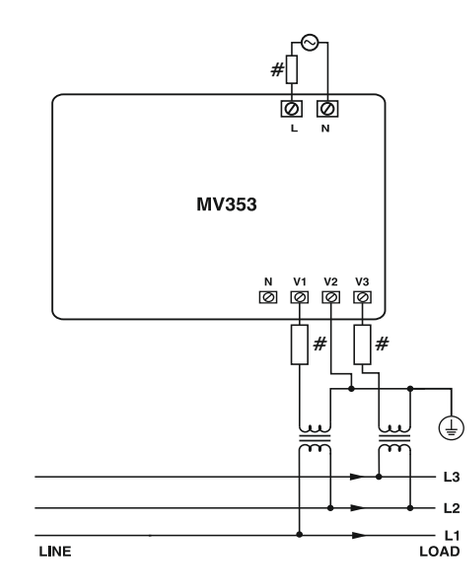
3 Phase - 4 Wire | 3VT



3 Phase - 3 Wire



3 Phase - 3 Wire | 2VT



All fuse types : 0.5A class CC UL type ; 0.5A fast acting 600V

(Specifications are subject to change, since development is a continuous process.)

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