

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} : $\pm 0.5\%$ of full scale
- Voltage V_{L-L} : $\pm 0.5\%$ of full scale
- Run Hour: $\pm 1\%$

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
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 0.5mm² to 2.5mm² (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.

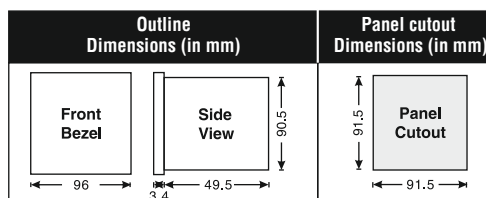
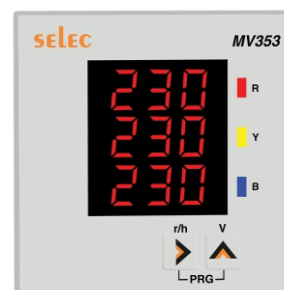
INSTALLATION GUIDELINES**CAUTION :**

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.

**FRONT PANEL DESCRIPTION****ONLINE PAGE DESCRIPTION**

Press Key	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 and .

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

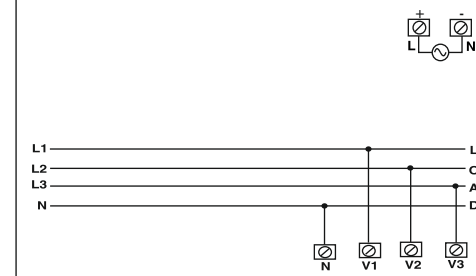
For the configuration setting mode :

- Use and 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.

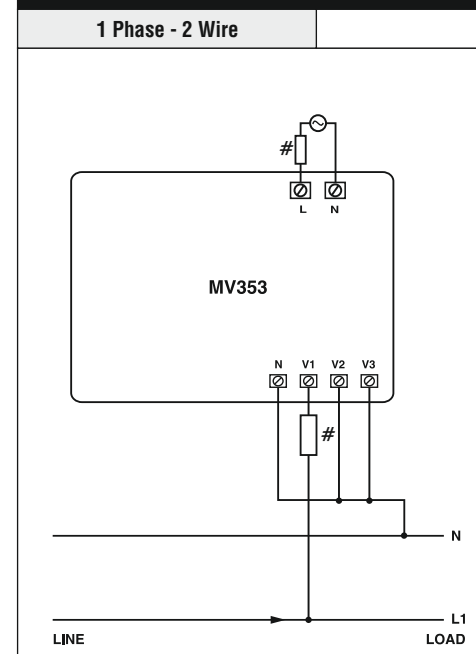
Eg:- If user want to set 1300 = first

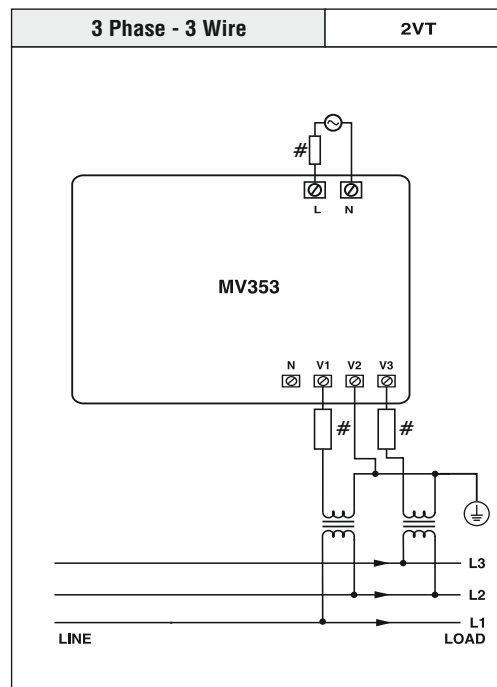
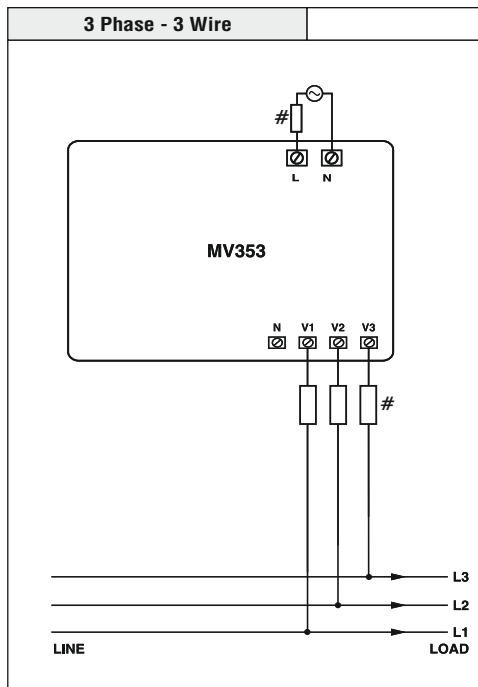
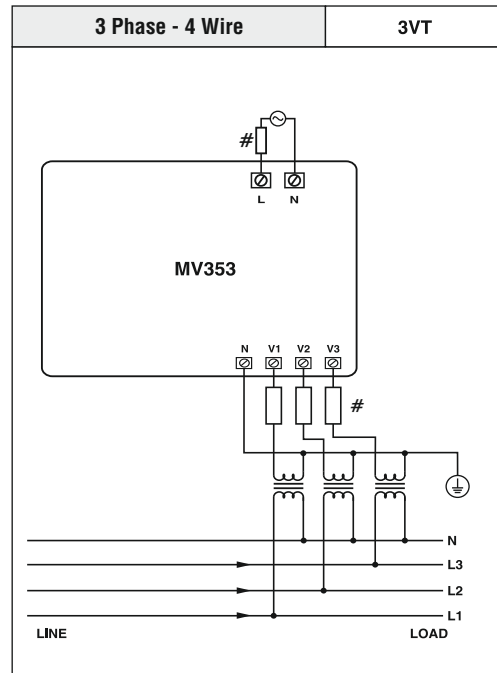
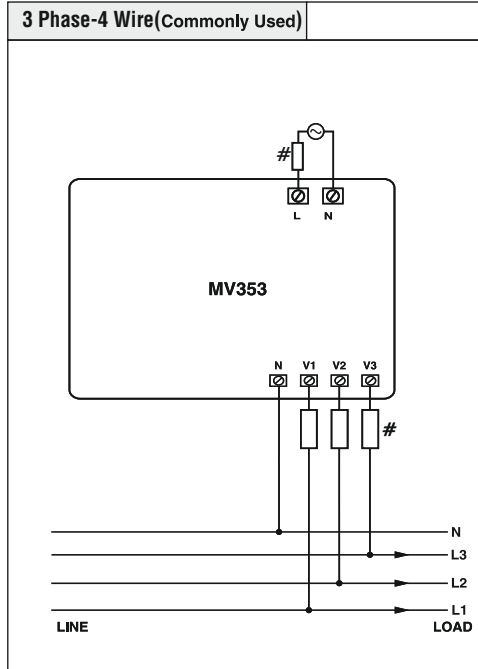
Set digit 001 then hold key for 5 sec. to shift in k, then display will show 1.00k, press shift to cursor for next digit. Next press key to change values after the decimal point 1.3k and then hold key for 5 sec. to save the parameters, it will show 1.30k.

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



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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