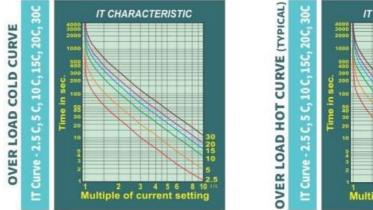
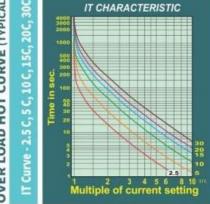


Motor Protection Device (µDLEDX-T)







MODEL - µDLEDX-T

FEATURES:

- LED Seven Segment Display, bright pixels on Din Rail mounted MPD
- Display 3 phase currents and thermal capacity used -
- Annunciation for each type of fault _
- Numerical Algorithm for fast, reliable operation
- Thermal Overload curves selectable as per requirement
- Excellent accuracy and longtime Stability of thermal curves due to complete software-based implementation
- Customized protection CT as per load requirement supplied with the relay
- Continuous self supervision and fail-safe operation
- Annunciation in case, motor fails to stop after protection device issues trip command
- Man Machine interface through keypad
- Up to five event trip records, FIFO based
- Reset Inhibit function, Hour Counter, Onsite calibration, Password facility (on demand)
- Robust mechanical design with shock proof non-metallic screw less unit.

PROTECTION:

- Over Load
- Single Phasing Current Based
- **Unbalance protection Current** Based
- Locked Rotor
- **Under Current**
- Short Circuit
- Earth Fault

RANGE:

- 0.2 to 6.25 Amp
- 0.4 to 12.5 Amp
- 0.8 to 25 Amp -
- 2 to 62.5 Amp
- 4 to 125 Amp
- 40 to 250 Amp
- 80 to 500 Amp

OPTIONAL:

RS 485 Data communication over MODBUS RTU protocol

- 4-20mA Analogue output
- Both RS 485 communication and 4-20mA Analogue Output
- Relay output for external alarm
- External reset facility
- Password facility
- Thermistor based Temperature Protection

MEASURING & DISPLAY **PARAMETERS:**

- R Phase Current (Ir)

- Y Phase Current (IY)
- B Phase Current (Ib)
- Has Hour counter (Hr) (min)

1

- Has Start Counter
- Has Calibration facility



SPECIFICATIONS:

Aux. supply	230VAC (optional 110VAC / 415VAC), 50 Hz
СТ	Up to 2 to 62.5 Amp with Inbuilt CT,
	Above 2 to 62.5 Amp with External CT
*Rated current (As per motor FLC)	0.2 to 500A (Seven CT ranges)
Rated Frequency	50Hz/ 60Hz
Mass of the device	500gms. (approx.)
Mounting type	Din Rail Type
Dimensions (L X W X D)	100 X 75 X 110 mm
Thermal Overload setting range	0.2 to 500A, as per CT range selected
Thermal Overload curve selection	2.5C, 5C, 10C,15C,20C & 30C (six curves)
Thermal Overload Operating time	As per thermal curve selected
Under current feature	Enable/Disable
Under current setting range	10% to 80% FLC
Under current operating time	1 to 60 sec
Locked Rotor setting range	Current range selected, pick up 3 X FLC
Locked Rotor pick up delay time	1 to 30 sec.
(During starting)	
Earth fault trip start delay (during starting)	Enable or disable
(When enable; earth fault function will not operate of	during motor starting for 10 seconds)
Earth fault setting range	10% to 30% FLC
Earth fault operating time	0.5 sec to 3 sec.
Short Circuit setting range	Current range selected, Pick up 8 X FLC
Short Circuit operating time	Instantaneous
Single phasing setting	Enable or disable
Single phase operating time	2 sec (fixed)
Unbalance protection	Enable or disable
Unbalance protection setting range	10% to 40%
Unbalance protection operating time	3 to 10 sec.
Thermal Reset function	Enable or disable
Thermal Reset Inhibit time	1 to 999 sec (Applicable when thermal reset is disable)
Data Output	RS 485 MODBUS – RTU Protocol, Baud Rate – 9600,
	Word length – 8
Analog Output	4-20 mA
Ambient service temperature	0 deg. C to + 55 deg. C
Degree of protection (enclosure panel mounted)	IP 54 (Front side of the Device)

*Note: Current range 80-500 Amp is available with all the above protections except short circuit protection.

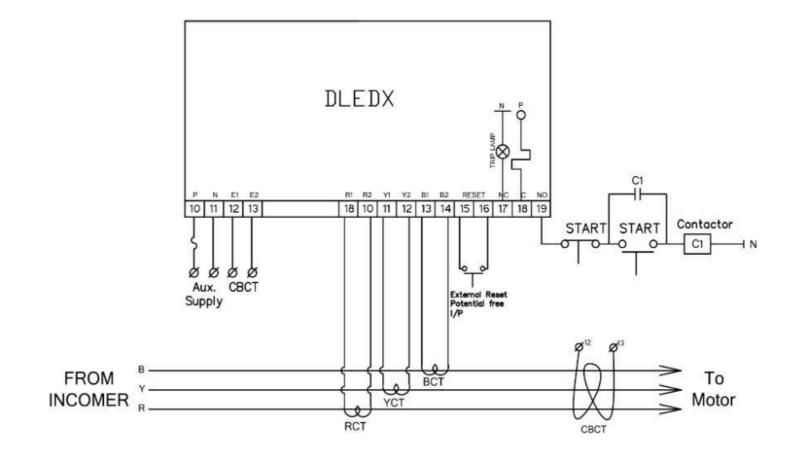
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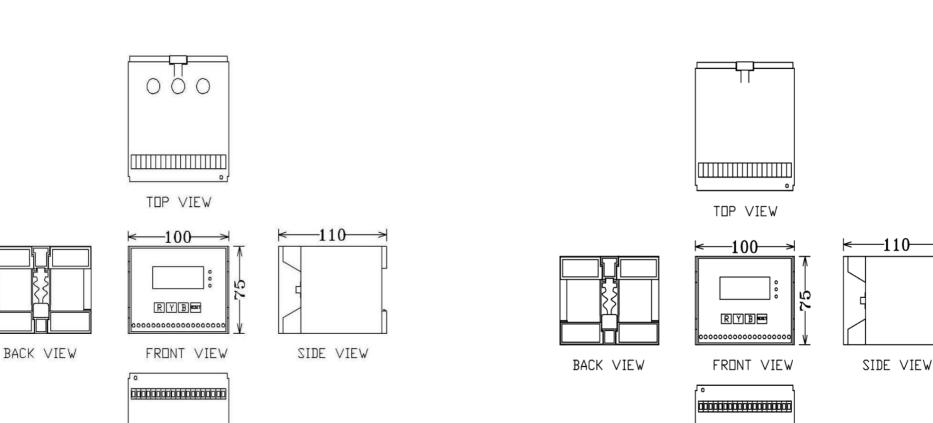
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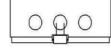


WIRING DIAGRAM

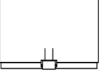


DIMENSION





BOTTOM VIEW



BOTTOM VIEW

UP to 2 to 62.5A With Inbuilt CT

Above 2 to 62.5A With CT

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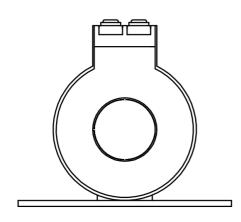
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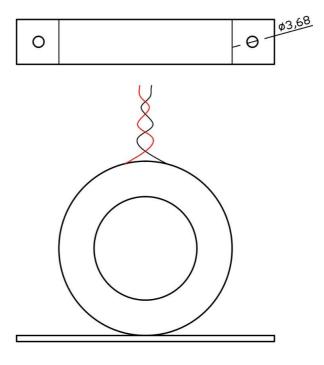
CT DIMENSION





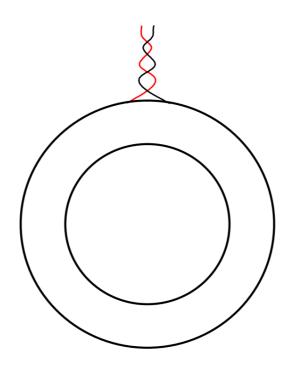
20mm LINE CT INNER DIA.-20mm DUTER DIA.-47mm

FOR 0.2 TO 6.25A, 0.4 TO 12.5A, 0.8 TO 25A, 2 TO 62.5A



35mm LINE CT INNER DIA.-35mm DUTER DIA.-59mm

FOR 4 TO 125A



55mm LINE CT INNER DIA.-55mm

DUTER DIA.-85mm

FOR 40 TO 250A, 80 TO 500A

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