

# Megawin Switchgear

## MB140B - BREAKER MANAGER WITH NUMERICAL OVER CURRENT PROTECTION



# MB140B – Breaker Manager M140A Numerical Over Current Protection

## MB140B-Breaker Manager

### FEATURES

- Circuit Breaker control panel with protection for medium voltage application.
- TRIP / CLOSE breaker control switches with necessary interlock logics with simple MIMIC showing breaker status
- TRIP LOCK facility with password Protection for Line clear / breaker maintenance
- LOCAL / REMOTE switch function with Password Lock
- AUTO Breaker Maintenance annunciation.
- Built in ANNUNCIATOR for TRIP and NONTRIP functions with ACCEPT / RESET push buttons and test LED facility.
- In built Trip Circuit Supervision.
- In built breaker ANTIPUMPING logic.
- Built in CLOSE / TRIP interlock logics.
- DC supply supervision.
- INDICATING LEDs for DC healthy, Trip circuit fail, Breaker ON / OFF status, Remote / Local operations, spring charge, Breaker in service status etc., - 34 LEDs.
- 14 digital inputs that includes inputs for Bucholz alarm, Oil temperature alarm, winding temperature alarm, and Bucholz Trip, Oil temperature Trip, winding temperature Trip functions of Power Transformer.
- MASTER TRIP relay function
- Device Healthy feature to give alarm with different supply in case if this device failure.
- Control button status information in LCD panel.
- Dedicated three phase voltage indicator (MVIL3) with LED indicators directly energized from the PT supply, indicating the status of High voltage without depending on dc supply for safety.(optional)

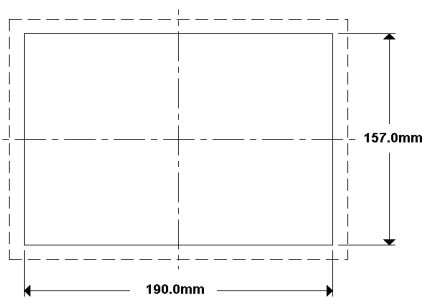


# MB140B – Breaker Manager M140A Numerical Over Current Protection

Numerical three phase and earth over current protection with following features.



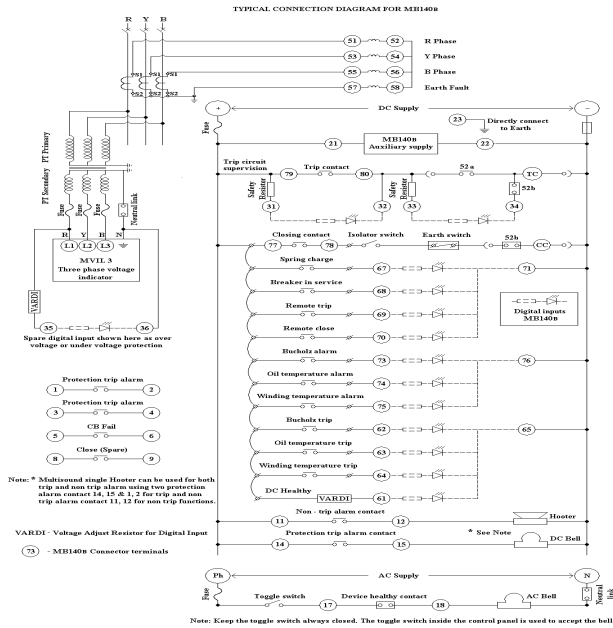
- True RMS measurement for protection.
- Three stages of settings - Low set, wide set, High set.
- 6 independent Characteristics for Phase and Earth Fault.
- User Friendly settings with Password Protection.
- 16 Characters 2 Line LCD display with backlight - alphanumeric display.
- 1Amp & 5 Amp CT secondary selectable by software
- Same manager for 24, 30 or 48Vdc.
- Same manager for 110 or 220 Vdc.
- DC transient free instantaneous High set with operating time <15 milliseconds @5times the setting. (Takes care of CT saturation)
- Self Monitoring.
- Current values in all the phases at the time of fault.
- Reset time feature for flashing faults.
- Two group of protection settings.
- Primary as well as secondary current Metering.
- Cold load Switching
- Multi shot Auto recloses.
- Trip circuit supervision.
- Circuit Breaker failure protection.
- Circuit Breaker monitoring.
- External blocking feature.
- 8 fault records with time stampings.
- Separate password protection for settings.
- Maximum current demand.
- Feeder identification.
- Relay / LED test facility



## CUTOUT FOR MOUNTING

**CASE:** Flush mounting

- Bezel dimension 200 mm × 200 mm
- Maximum depth inside the panel 190 mm
- All dimensions are equidistant from centre line



It is mandatory to have external direct trip facility to use under emergency when this manager is defective. A device unhealthy NC contact is given to close under this circumstance to give direct audible alarm which has to be silenced through a series connected switch.



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