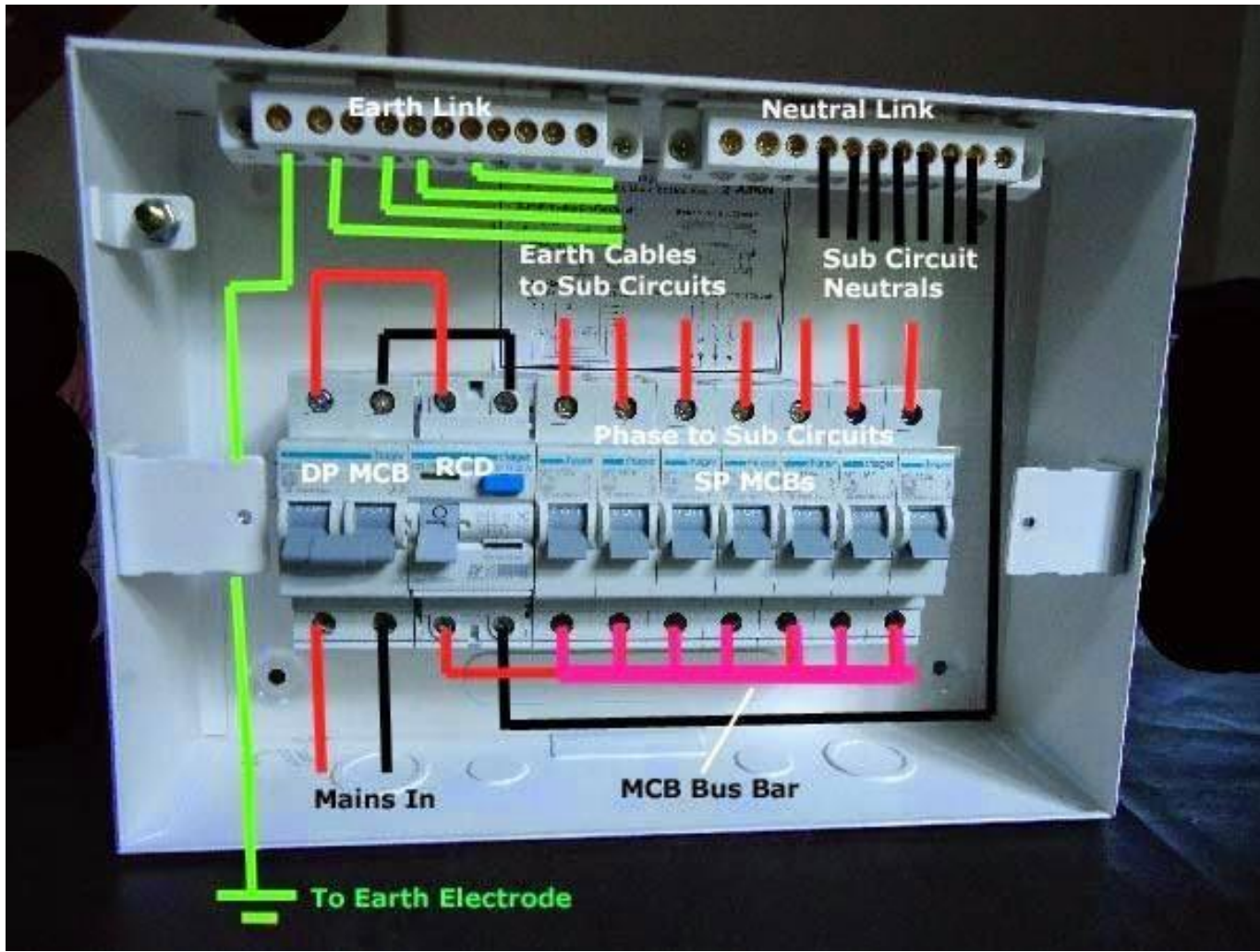


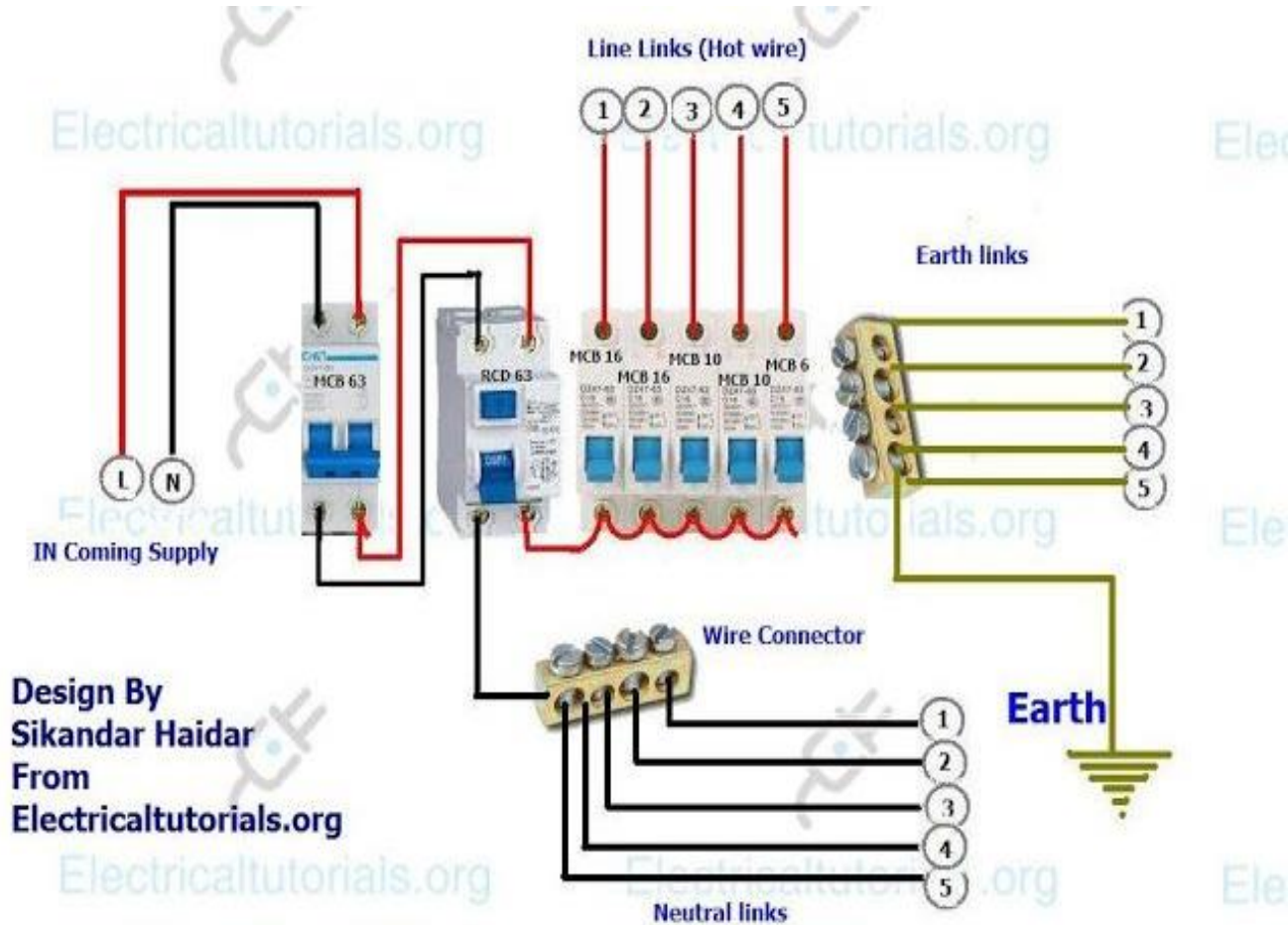


# RCD AND DISTRIBUTION BOARD WIRING STANDARD

'Asita Langi

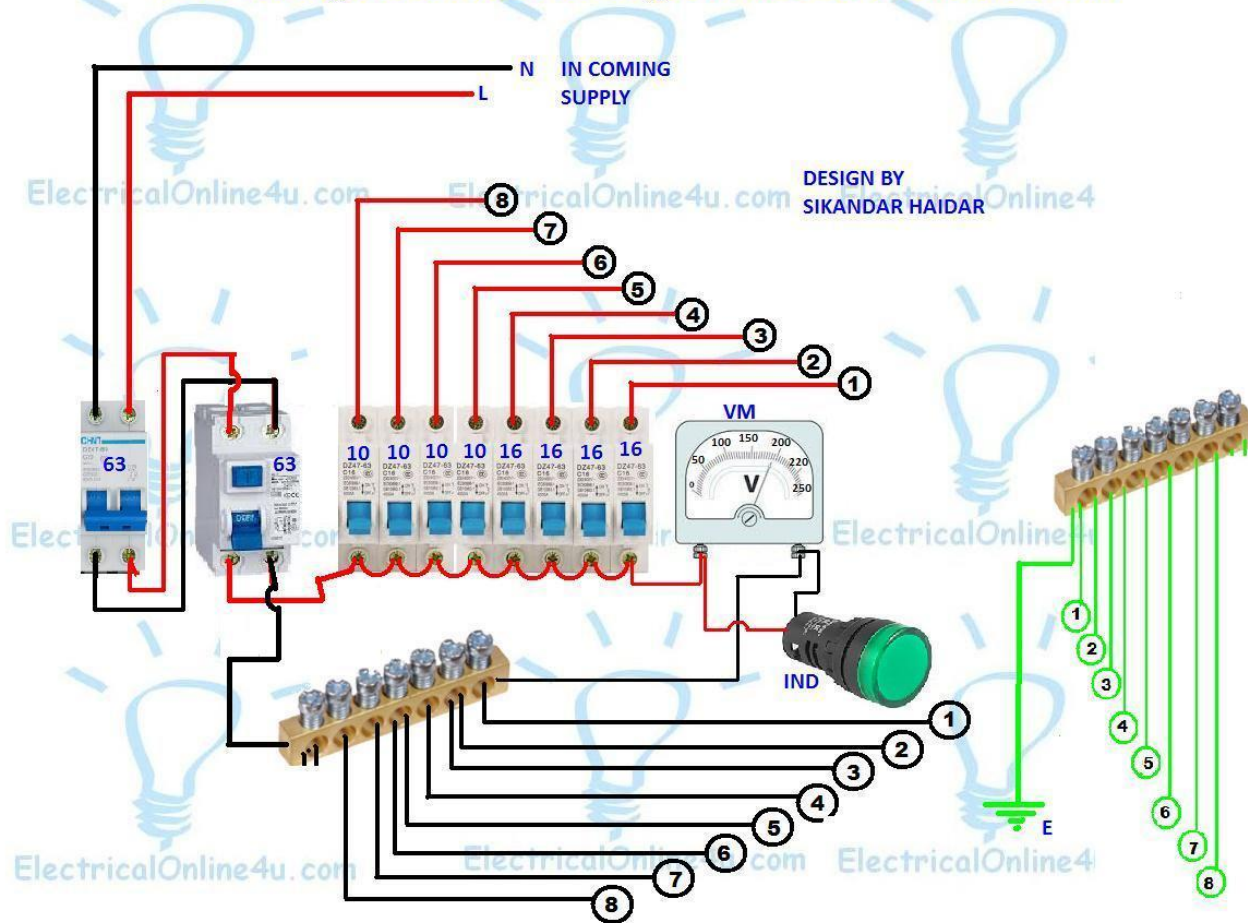


# RCD WIRING INSTALLATION IN DISTRIBUTION



# RCD WIRING INSTALLATION IN SINGLE PHASE SYSTEM

## RCD Wiring Installation In Single Phase Distribution Board



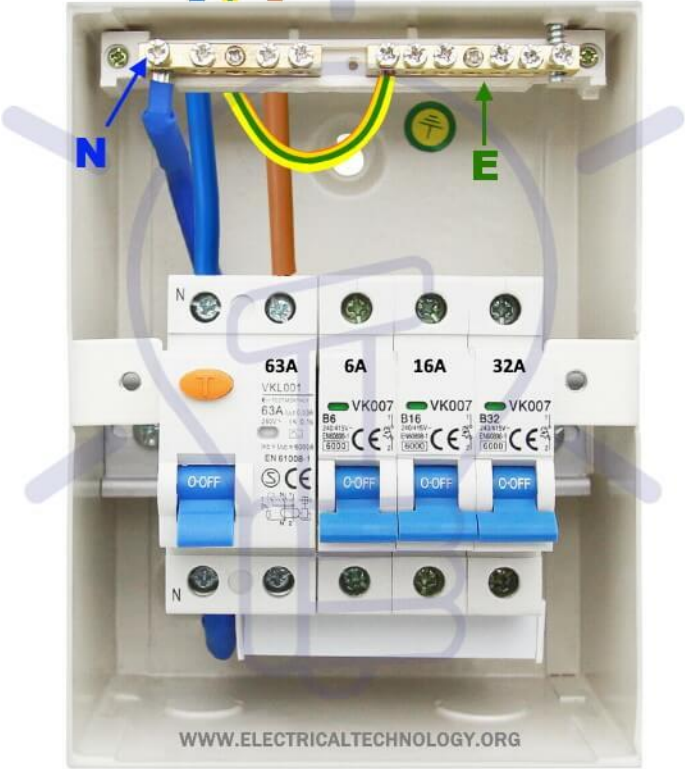
# WIRING A GARAGE CONSUMER UNIT

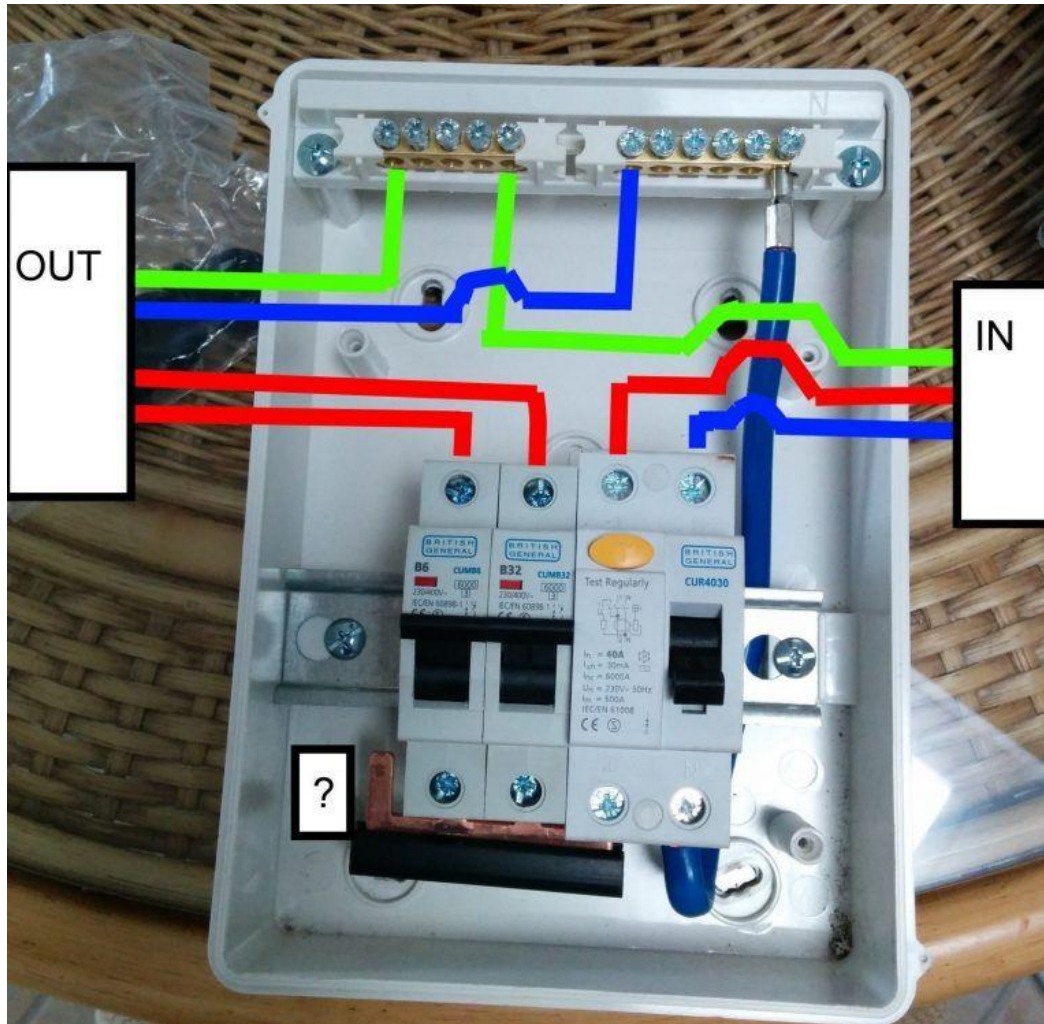
## Wiring a Garage Consumer Unit

**IN** { 230V, 1- $\Phi$  AC Supply  
From the Main DB

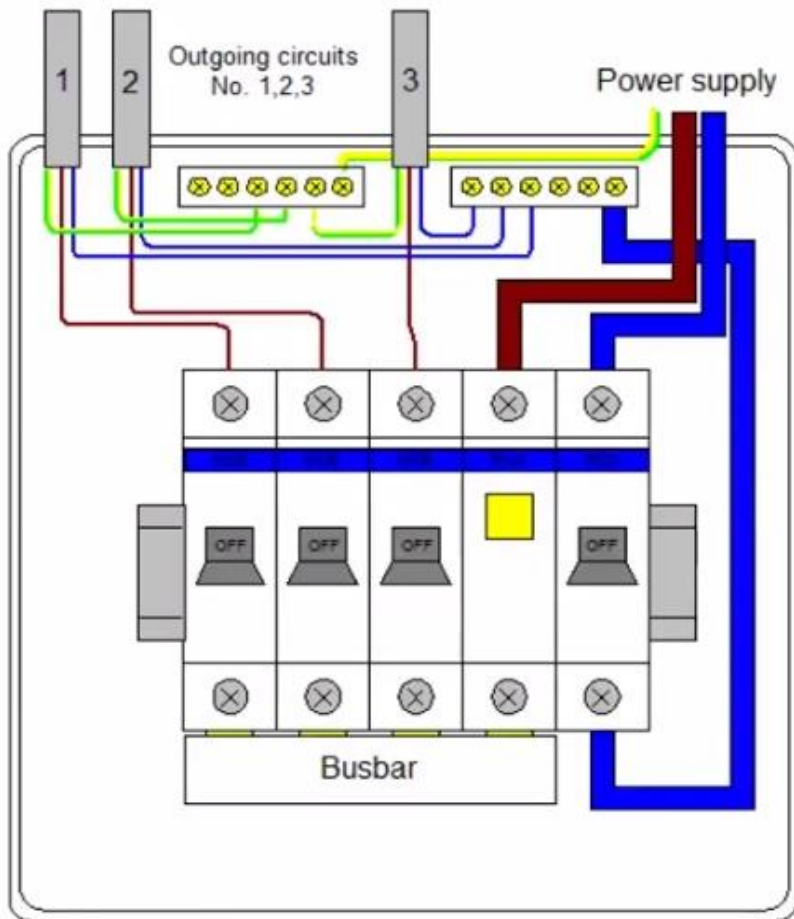
IEC Wiring Color Codes	
	= E = Earth / Ground
	= L = Live or Phase
	= N = Neutral Wire

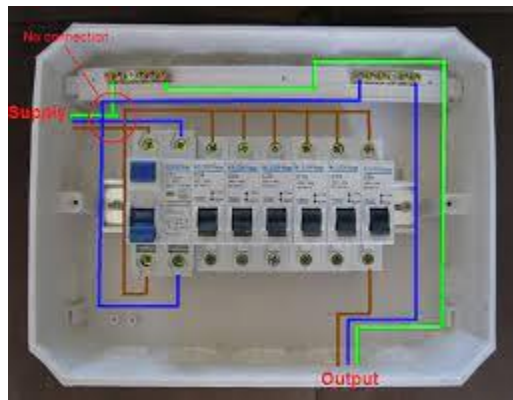
**N E L**





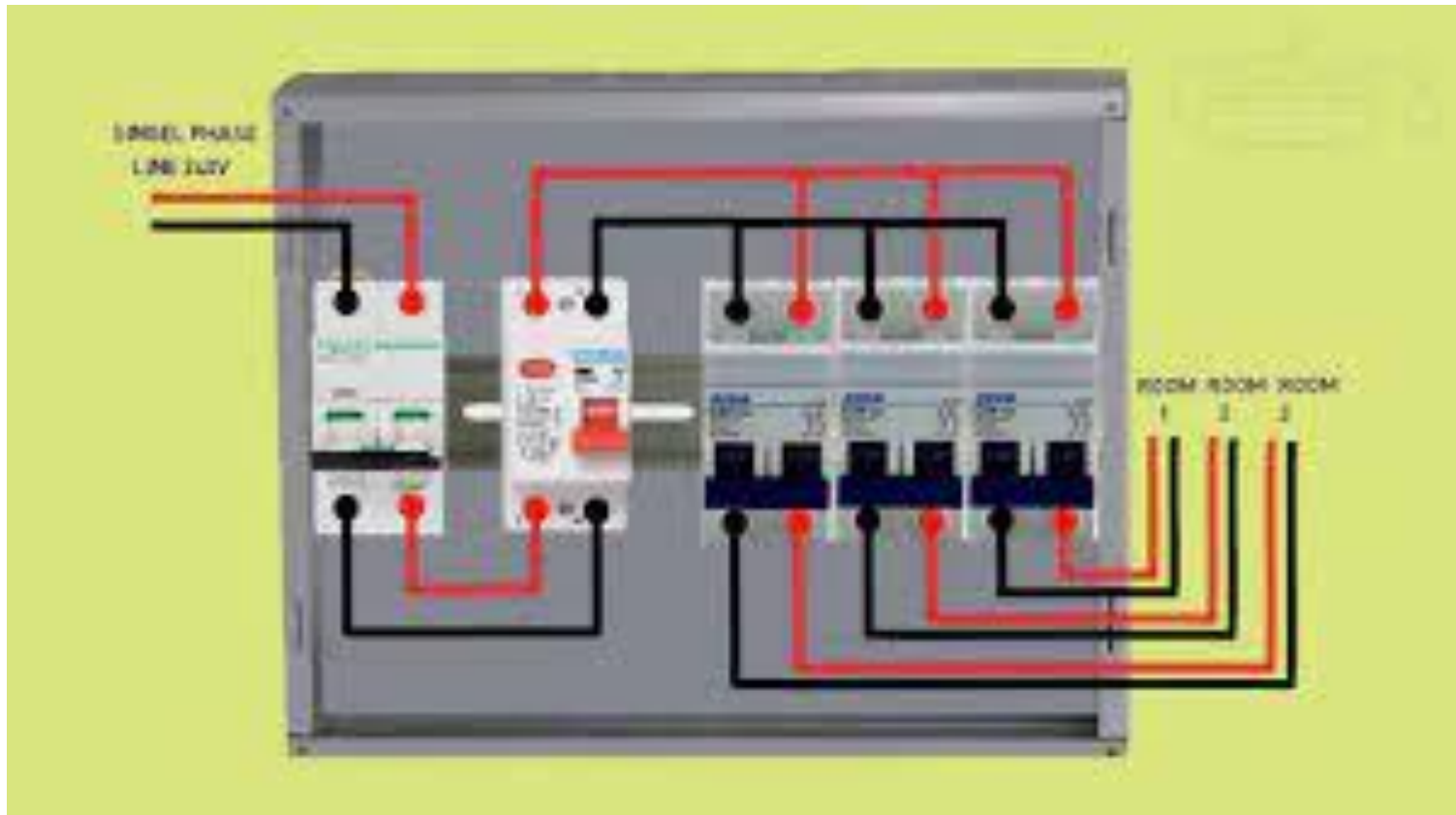
# GARAGE CONSUMER UNIT



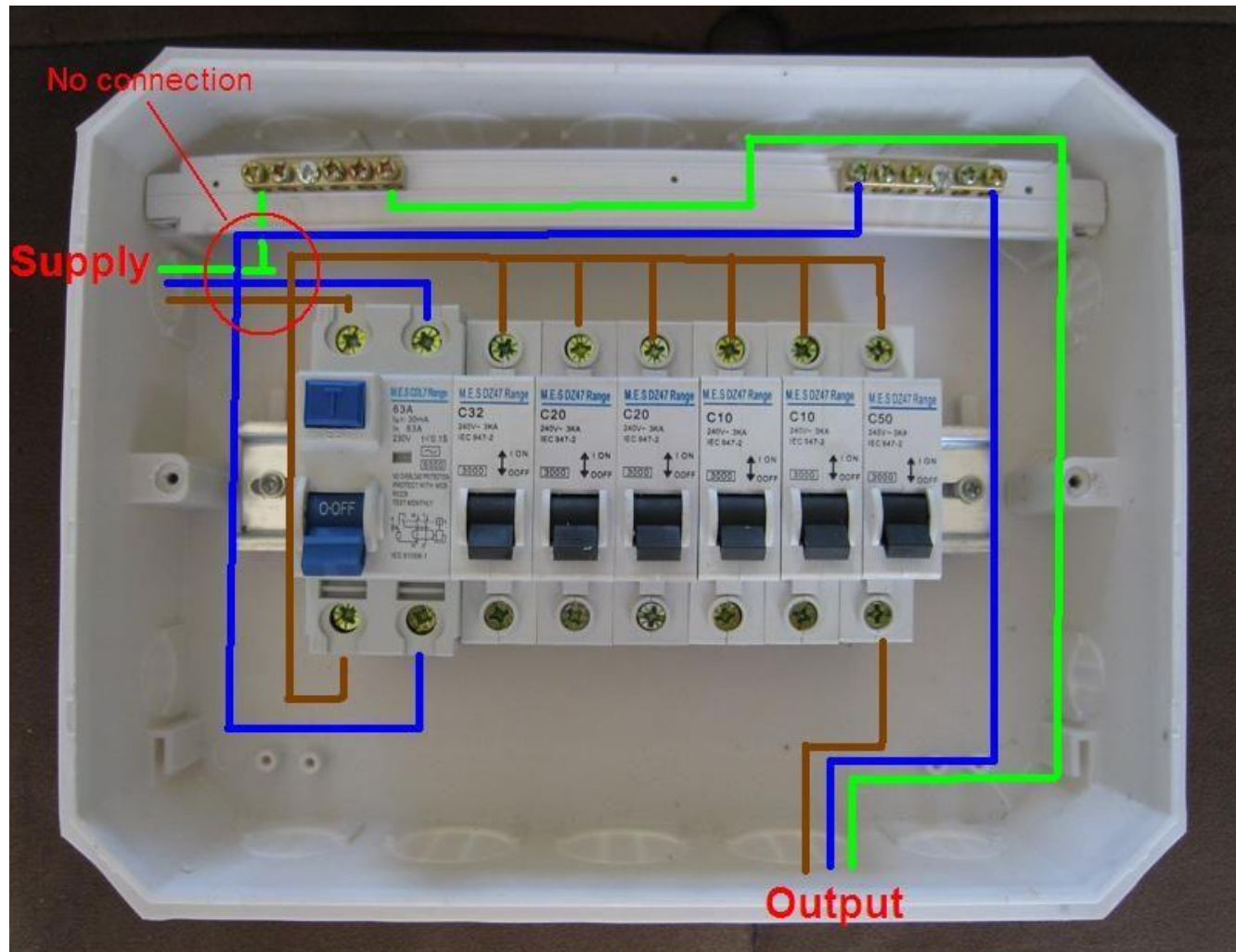




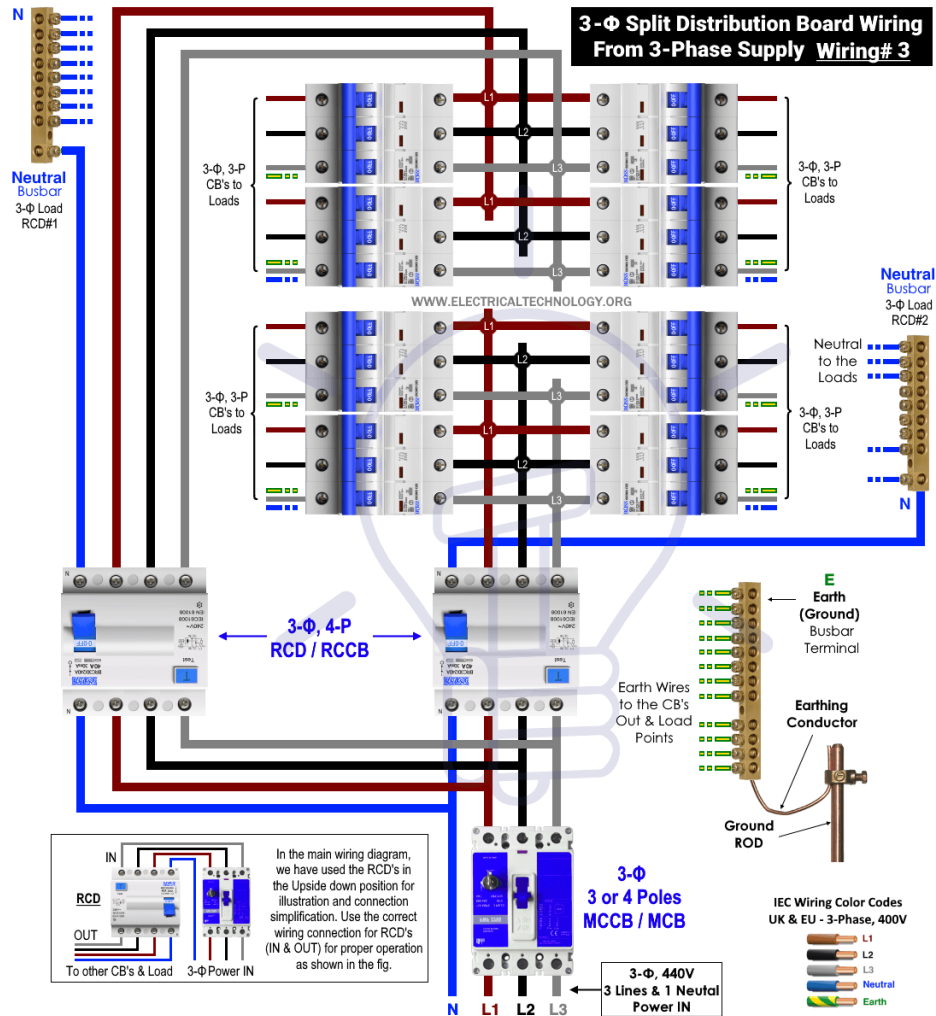
# SINGLE PHASE



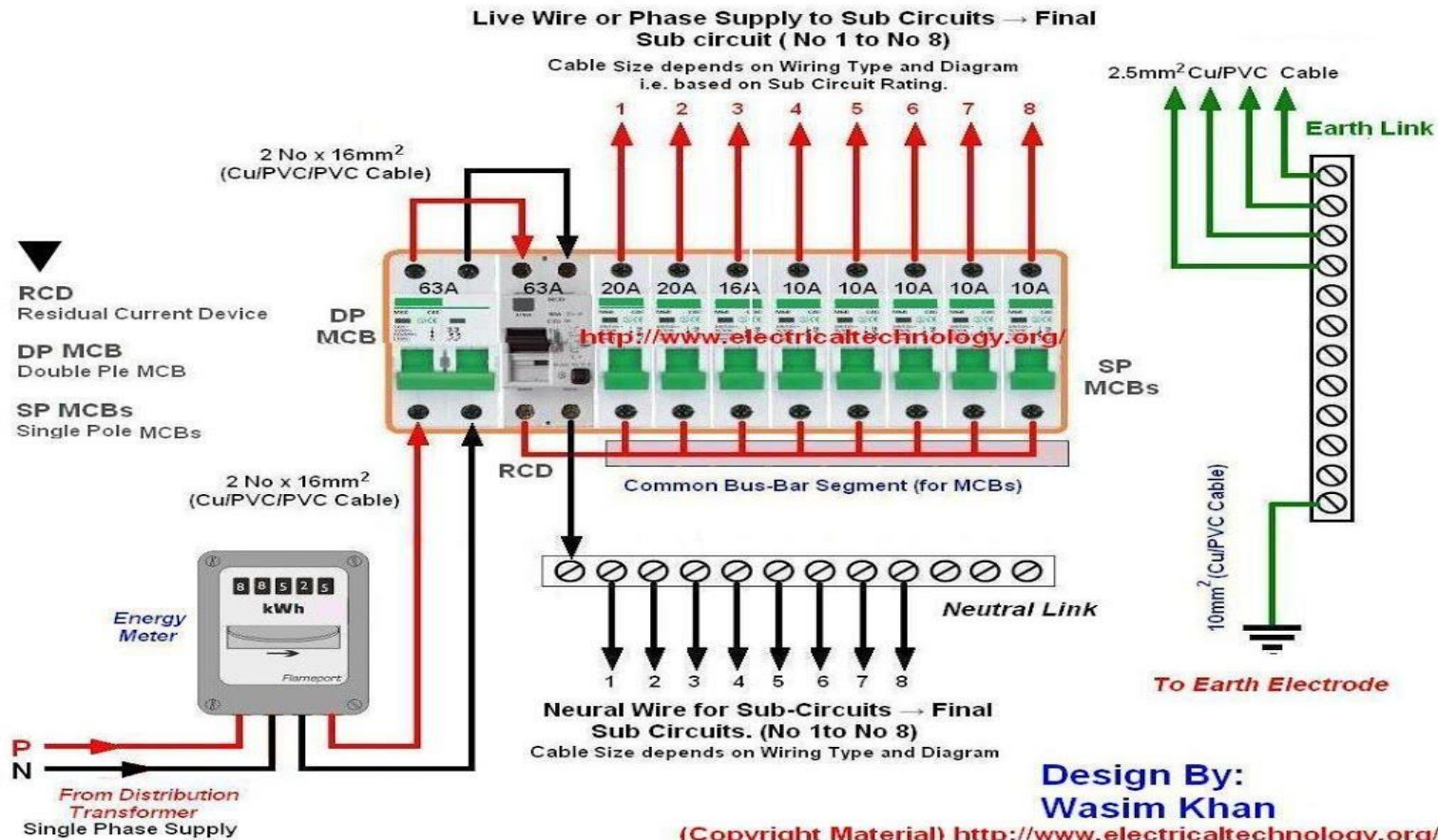
# DISTRIBUTION BOARD WIRING STANDARD



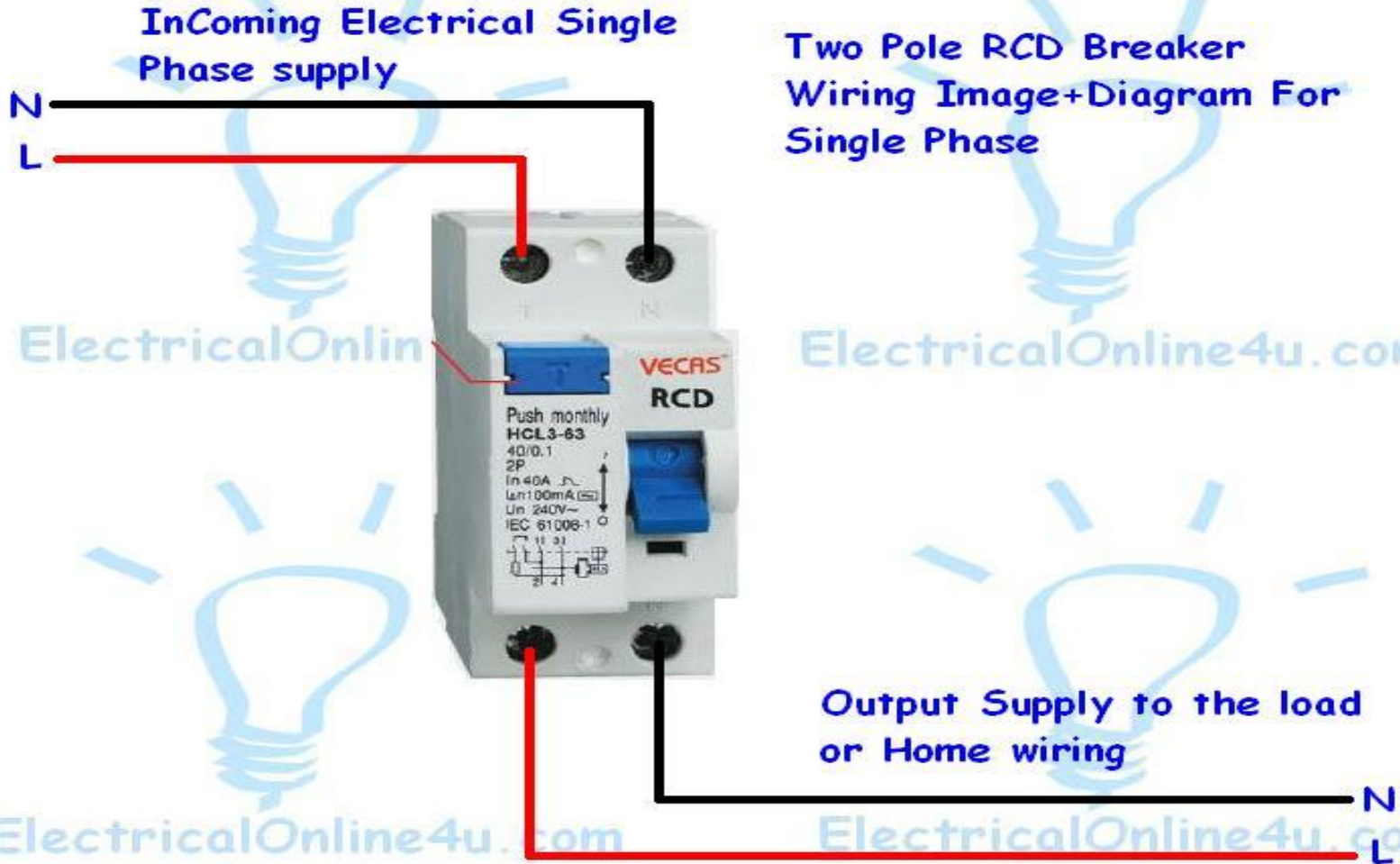
# 3 PHASE DISTRIBUTION BOARD



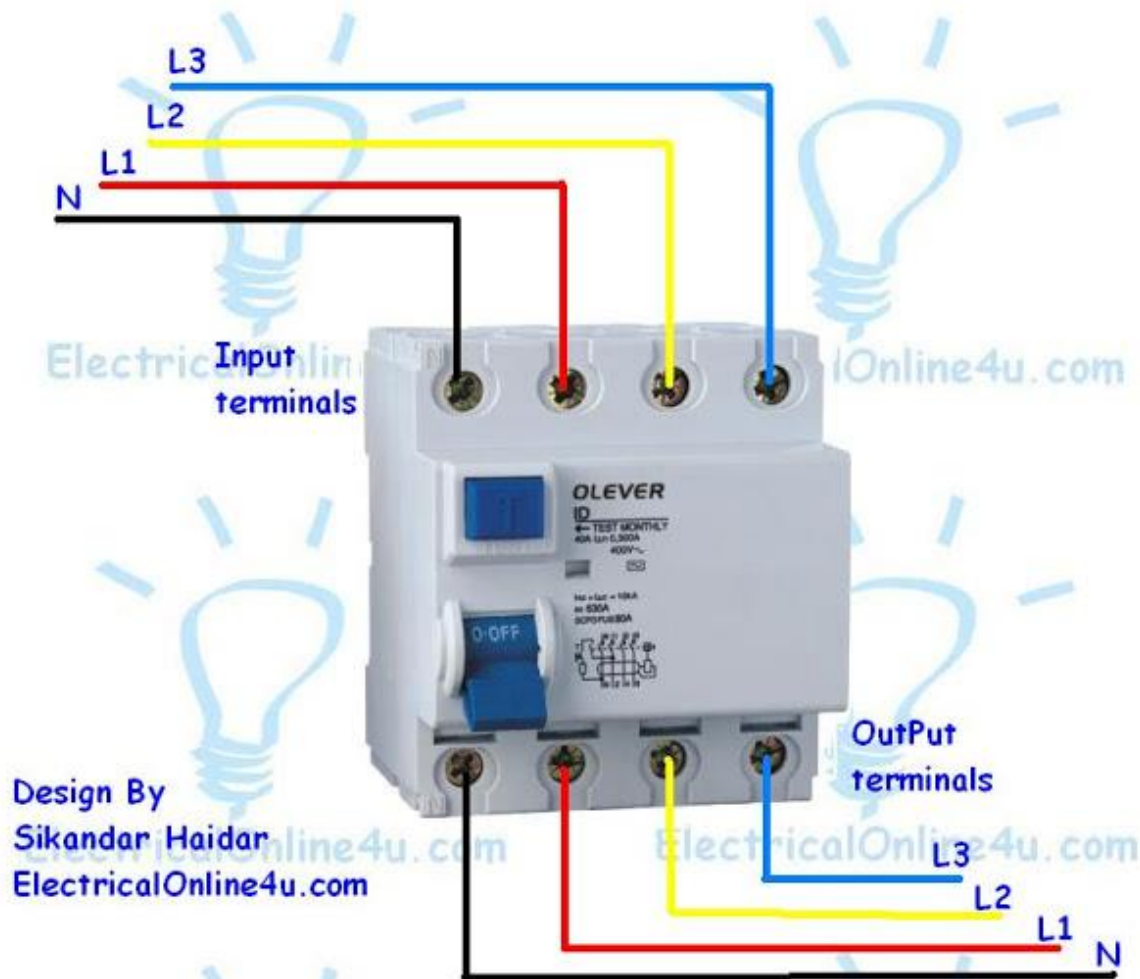
# FROM ENERGY METER TO THE MAIN DISTRIBUTION BOARD



# RCD



# 3 PHASE RCD WIRING



# PROTECTION BY RESIDUAL CURRENT DEVICES

## General

1. Fixed setting RCD with a rated operating residual current not exceeding 30mA.
2. It provide additional protection in area where excessive earth leakage current present.
3. It automatically disconnect the power when an earth leakage current reaches a preset value.
4. RCDs with a sensitivity of 30mA is designed to operate before fibrillation of heart occurs.
5. RCD to be considered in area of high risk, such as outdoor equipment's, damp area (i.e. Kitchen, bathroom, laundry room) and area such as kindergartens (school) playground area etc.

