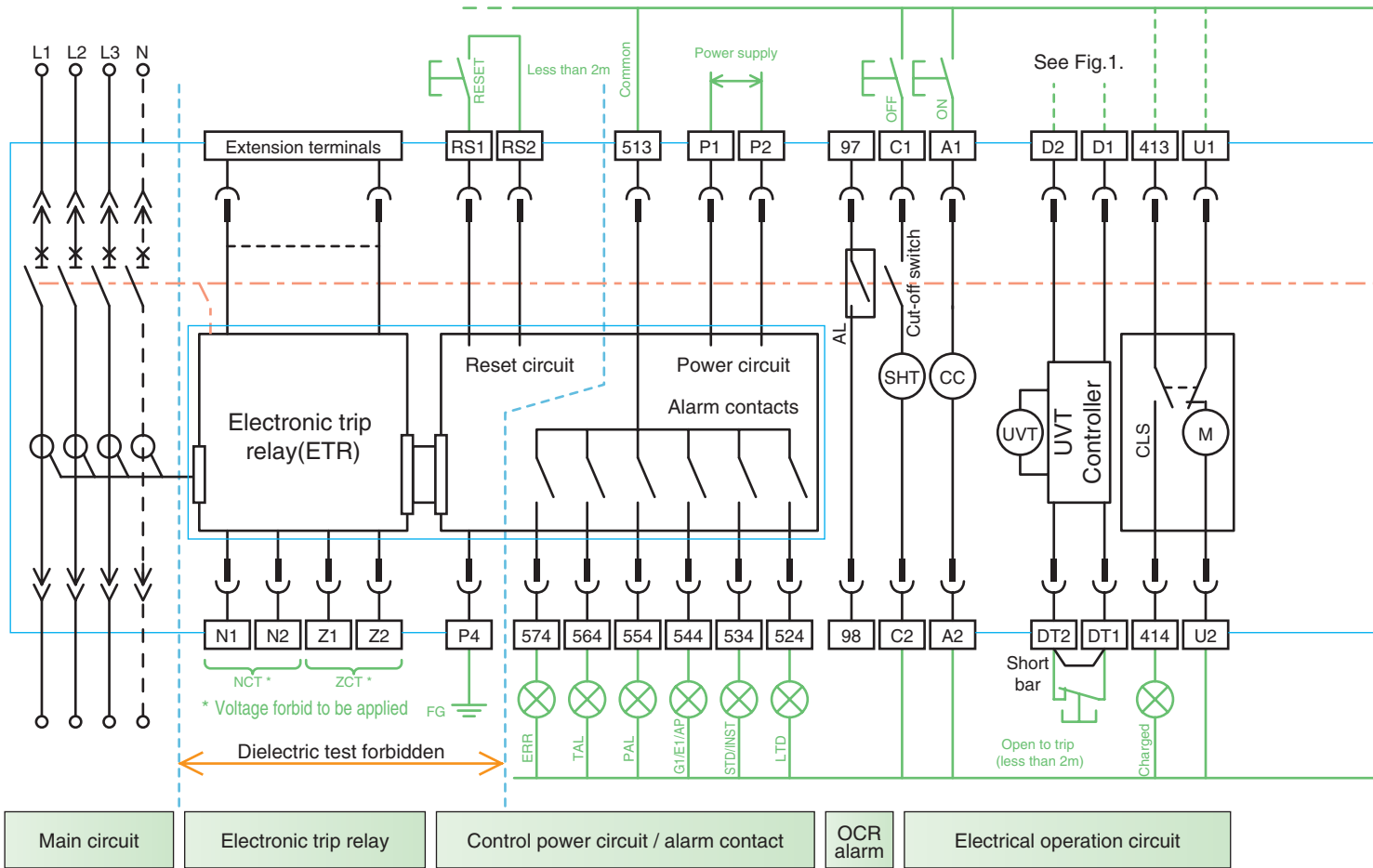


# Wiring diagram

● The following diagram shown accessories fully equipped.



## Terminal description

13	14	~	53	54	Auxiliary switch "a"
11	12	~	51	52	Auxiliary switch "b"
U1	U2				Motor charging
413	414				Charged signal
D1	D2				Voltage Input terminal of UVT
DT1	DT2				Trip terminal of UVT (Remote trip)
A1	A2				Closing coil
C1	C2				Shunt trip
97	98				OCR alarm
P1	P2				Power supply for ETR
P4					FG of power supply (FG:Frame Ground)
RS1	RS2				Alarm reset (Trip cause LED, alarm contact)
513		,	524 ~	574	Alarm contacts
Z1	Z2				For external ZCT
N1	N2				For Neutral CT (Note)
Extension terminals					For external display DP2
					For Interface unit
					For VT unit

Note; Do not connect the NCT type CW-40LM (for AE-SS series).

## Accessory Symbols

(SHT)	Shunt tripping device
(CC)	Closing coil
(M)	Motor(Motor charging device)
(UVT)	UVT coil
AX	Auxiliary switch
AL	OCR alarm switch
CLS	Charge limit switch
SBC	Shorting b-contact
CL	Cell switch

— Internal wiring

— External wiring (user's wiring)

— Control circuit connector (drawout type)

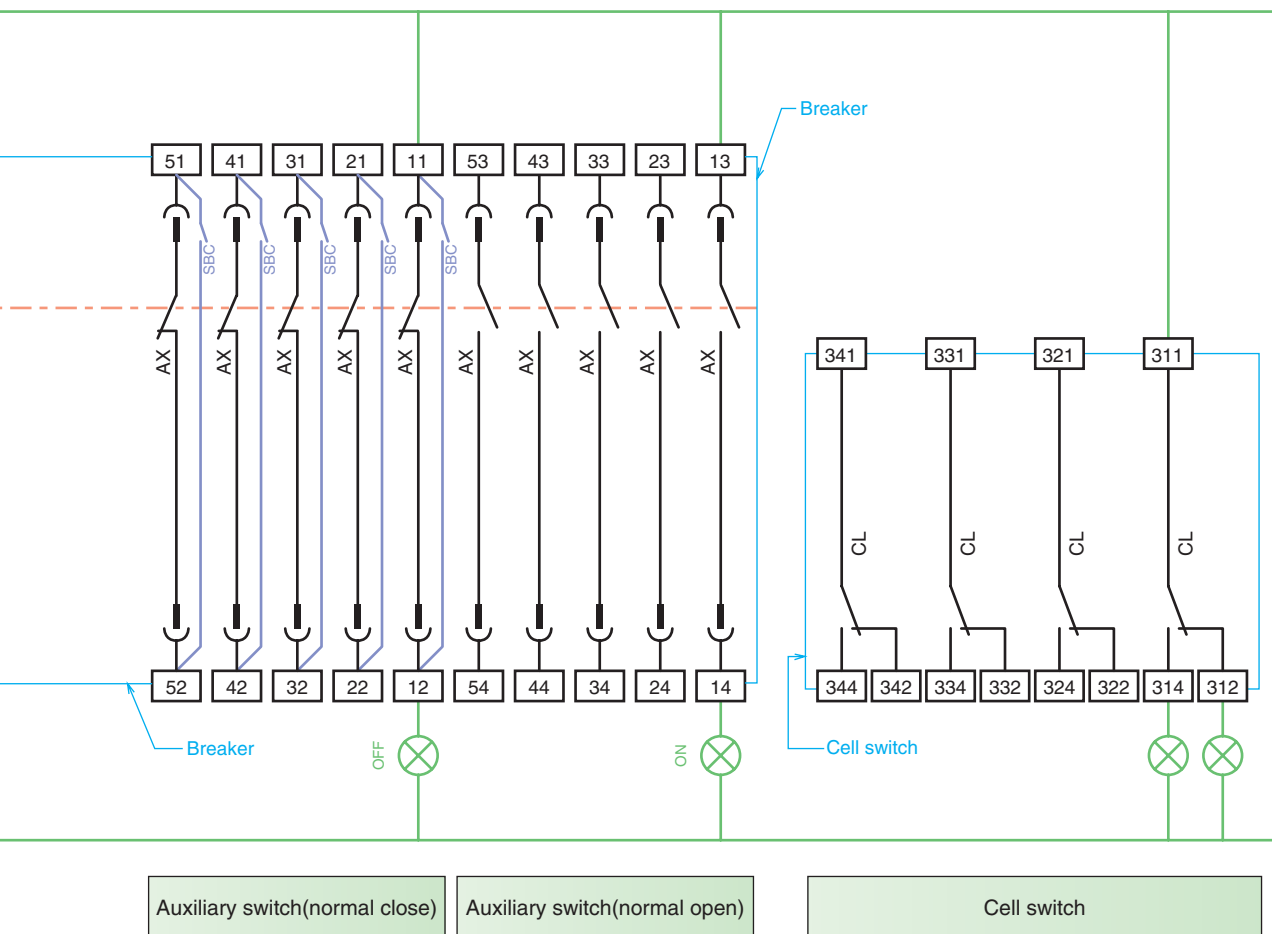
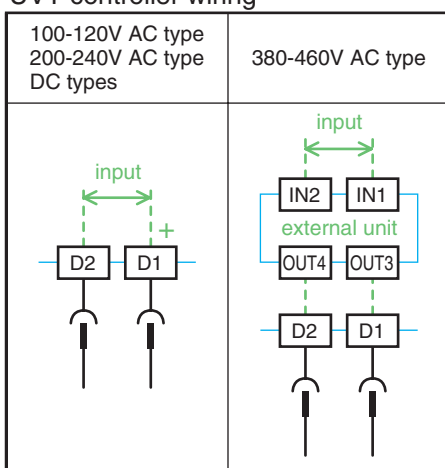


Fig.1  
UVT controller wiring



Note;

- On the drawout type, the cables should have the length which allow the control circuit terminal block to be moved to the left or right by 5mm.
- When a coil load is connected in the same control circuit as the ETR, surge absorbers are required to absorb the surge voltage.
- OCR alarm (AL)  
The contact output of the OCR alarm(Standard type AL) is the one-pulse output and the output time is 30~50ms.  
For this reason, this output needs self-holding circuit.
- Closing coil (CC)  
As CC is one-pulse driven, it is not necessary to insert AXb for burning prevention purposes. Inserting AXb will cause anti-pumping function to be ineffective.
- Under voltage trip device (UVT)  
Use the switch that can open and close DC150V, 0.5A to remote trip.  
Remote trip terminal has short bar at shipment, so remove it before using this function.  
Disconnect the voltage input wires during dielectric testing of main circuit.
- Alarm contacts [513], [524]~[574] are also reset by removing [P1], [P2] power supply voltage. (longer than 1sec.)