

결상 계전기 (Phase Open Relay)

■ 구조 및 동작 (Structure and Operation)



3상 전력회로에서 결상·역상·저전압 등의 사고 시 동작하여 기기를 보호하는데 적합합니다. GVP-OC1 형은 Trip 및 경보용이며, GVP-OC2 형은 3상 220V Motor보호용으로 주로 사용되며, Magnet를 사용하여 자동 또는 수동 운전할 수 있습니다.

Phase open relay is used for rotary machine protection against the fault of negative phase voltage, when one phase open or under voltage. Type GVP-OC1 is for tripping and/or alarm. Type GVP-OC2 is suitable for 3-phase motor protection in 220 volts system and it has a magnetic switch to select the auto-operation or manual operation.

• DIMENSION Refer to page 239

■ 형식표시 방법 (Type Information)

GVP Phase Open relay

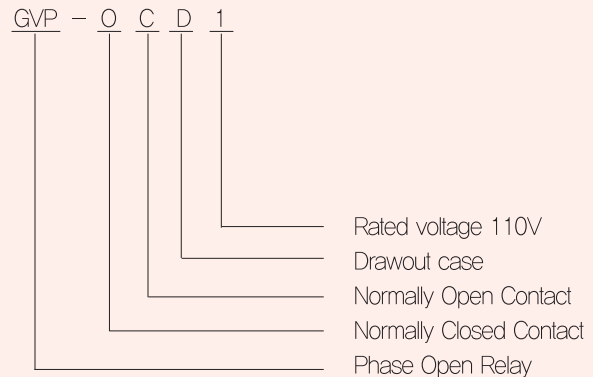
● TYPE

G Manufacturer's mark
V Voltage
P Phasee

● FORM O C D 1 2

O Normally closed contact
C Normally open contact
D Drawout case
1 110V
2 220V
9 190V

Example



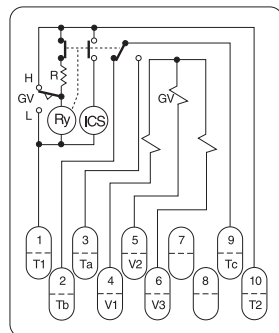
■ 주요사양 (Specification)

Type	Rating(V)	ICS Unit(DC)	Rating Burden(VA)	Figure	Weight(kg)
GVP - OC1	110V	AC or DC 110V	3.0	Non - drawout (비인출형)	≒3.6
GVP - OC9	190V		6.0		
GVP - OC2	220V		6.0		
GVP - OCD1	110V		3.0	Drawout (인출형)	≒4.4
GVP - OCD9	190V		6.0		
GVP - OCD2	220V		6.0		

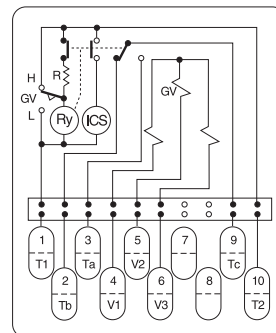
■ Characteristics

- Operating time of Phase Open : 2 ± 0.4 sec.
- Operating time of Reverse Phase : 1 ± 0.2 sec.
- Operating value of Under Voltage : Below 80% of rated voltage.
- Operating time of no voltage : about 4 sec.

■ 내부결선 (Internal Connection)



Non-drawout Type

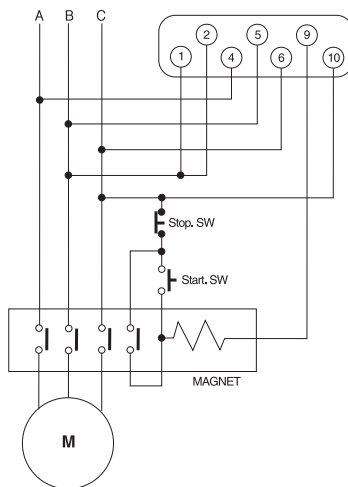


Drawout Type

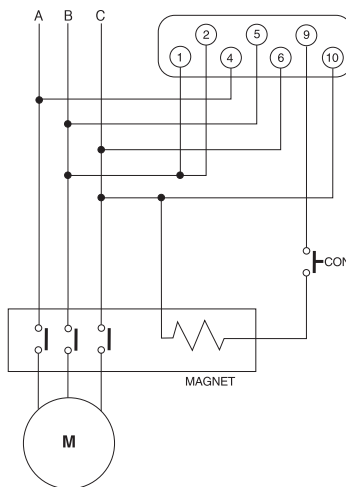
주) 내부결선도의 접점은 3상 전원과 보조전원이 인가된 상태를 표시합니다.

■ 외부결선 (External Connection)

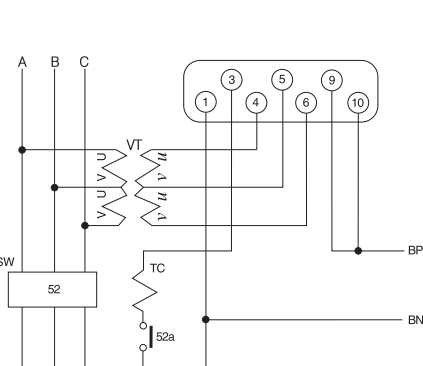
MAUNAL OPERATION



AUTO OPERATION



NORMALLY OPEN CONTACT TYPE



■ 사용 시 주의사항 (Caution for using)

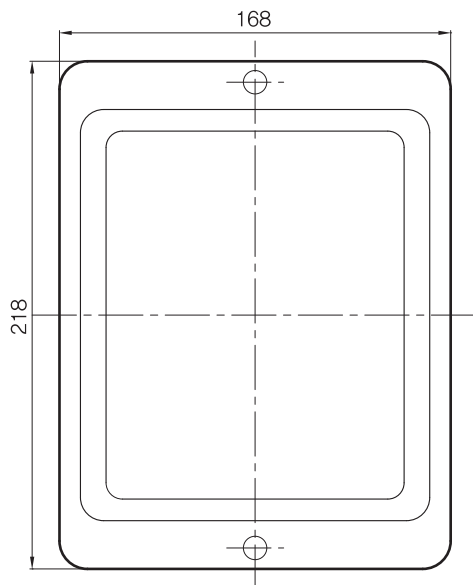
1. 계전기에 통전되면 원판이 우측(H)으로 회전하여 H접점에 접촉되어 Ry가 동작합니다. 만약 동작하지 않는다면 결선 시 오결선으로 인해 역상 동작된 상태로 판단되며, 검상기로 사용하여 A,B,C상을 점검하여 결선하길 바라며, 따라서 단자도 계전기에 통전 전에는 동작 후의 상태와 같으니 착오가 없길 바랍니다.
2. 보조전원(단자 1, 10번)이 개방되면 트립접점이 출력되어 차단기가 개방될 수 있으므로 보조전원 개방시 필히 트립회로를 먼저 개방시키십시오.

When the relay is energized with 3 phase voltages, "H" contact in the relay is closed by rotating the disk. But in case of misconnection of 3 phase rotation, "H" contact remains open because of the torque produced by negative phase voltage, and you have to check the connection of any two phases of the relay.

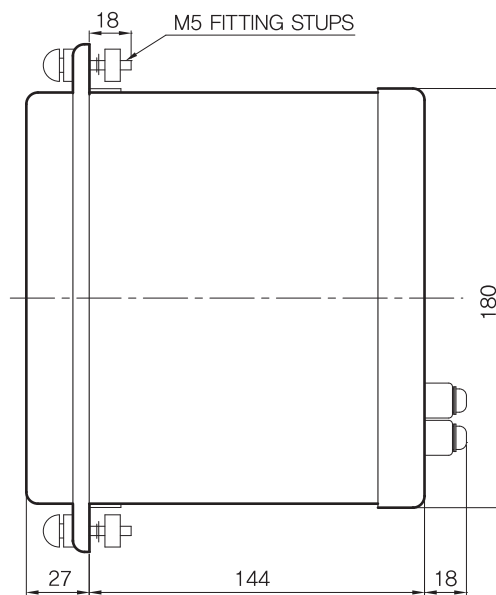
If the auxiliary power supply(T1, T10) is open, the trip contact will be output and the breaker may be opened. Therefore, please open the trip circuit first before open the auxiliary power supply.

■ 외형치수 (Dimension)

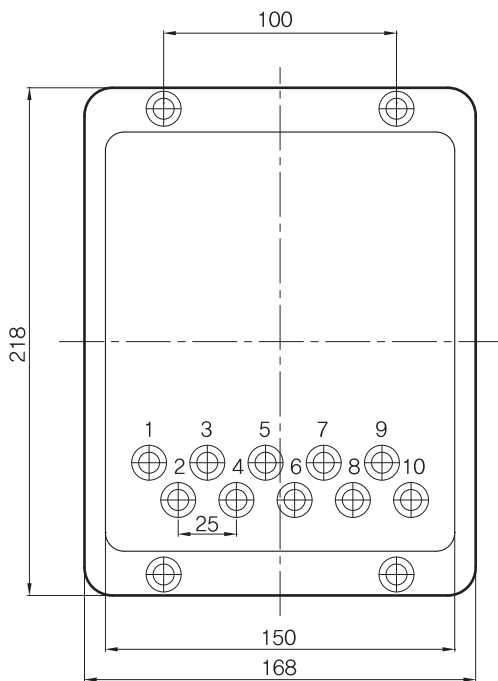
▣ 정면도



▣ 측면도



▣ 후면도



▣ Panel 가공치수

