



Vertical model
for general MCC panel

Digital Ground Fault - Digital 11F / 11P / 11H Relay

This digital earth fault relay is a device that detects grounded and ungrounded systems using a zero-phase current transformer. It can precisely measure the value input from the ZCT. Malfunction can be prevented against harmonic components and various noises.

- The ground fault (leakage) status of the electric line is alarmed and displayed for each circuit, and the ground fault current in the event of a ground fault is displayed on the LCD display.
- It stores the ground fault current value at the time of an accident and can be used as data for condition analysis after a fault.
- Built-in communication port enables remote monitoring. (Optional function)
- Provides convenient HMI through Key Interface.

Verical Type

Specification								
MODEL	DGF-D11F	DGF-D11F-C	DGF-D11FA	DGF-D11FA-C	DGF-D11P	DGF-D11P-C	DGF-D11PA	DGF-D11PA-C
Rated Input	ZCT Input AC200mA/100mV		ZCT Input AC200mA/1.5mA		ZCT Input AC200mA/100mV		ZCT Input AC200mA/1.5mA	
Mount	Flush mounted type				Socket type			
Display	LCD Display							
Frequency	60Hz / 50Hz							
Control power	AC/DC 100V ~ 240V							
Consumption	Standby : less than 5W, Run : less than 7W							
Output Contact	1a Contact (AC 250V 10A, DC 30V 10A)							
Comm.		RS-485 ModeBus		RS-485 ModeBus		RS-485 ModeBus		RS-485 ModeBus
FAULT MEMORY			When a fault current occurs, the fault current value is displayed on the LCD. Check the latest fault current value through the fault current check function					
Fault recovery			LCD BACKLIGHT and Output contact [Auto return setting possible]					
Output Contact	Common Cotact		1a Contact					
	Contact capacity		AC 250V, 10A / DC30V, 10A					
Operation Current	Current TAP		LOCK, 0.1 ~ 10.0A [0.1A Step]					
	Metering range		0.01 ~ 12.5A [abnormal current input : OvC (Over Current) display]					
	Operation range		within 75~100% of each correction value					
Operation time	Op. charateristic		Definite Time					
	Op. Lever		INST ~ 5.00sec [0.1sec Step]					
	Accuracy		INST ~ 0.20sec : within ±40ms / 0.20 ~ 5.00sec : within±10%					
Return	Return current		firmly return at 90% of each correction value					
	Return time		NST - 0.1 - 30.0sec (under 1sec :0.1 Step, over 1sec: 1 Step)					
	Return Method		Auto (Return time applied) / Manual					
H.M.I	KEYPAD		Manu, ▲, ▼, SET, TEST, RESET					
	LCD BACKLIGHT		OFF : RUN Green [GREEN] : Normal/ Red [RED] : Alarm					
Applicable Standard			KS C 8328					



Horizontal model
for smart distribution board MCC panel

Horizontal Type

Specification								
MODEL	DGF-D11H-F	DGF-D11H-F-C	DGF-D11H-FA	DGF-D11H-FA-C	DGF-D11H-P	DGF-D11H-P-C	DGF-D11H-PA	DGF-D11H-PA-C
Rated Input	ZCT Input AC200mA/100mV		ZCT Input AC200mA/1.5mA		ZCT Input AC200mA/100mV		ZCT Input AC200mA/1.5mA	
Mounting	Flush mounted type				Socket type			
Display	LCD Display							
Frequency	60Hz / 50Hz							
Control power	AC/DC 100V ~ 240V							
Power consumption	Stand by : less than 5W, RUN : less than 7W							
Output contact	1a Contact (AC 250V 10A, DC 30V 10A)							
Communication		RS-485 ModeBus		RS-485 ModeBus		RS-485 ModeBus		RS-485 ModeBus

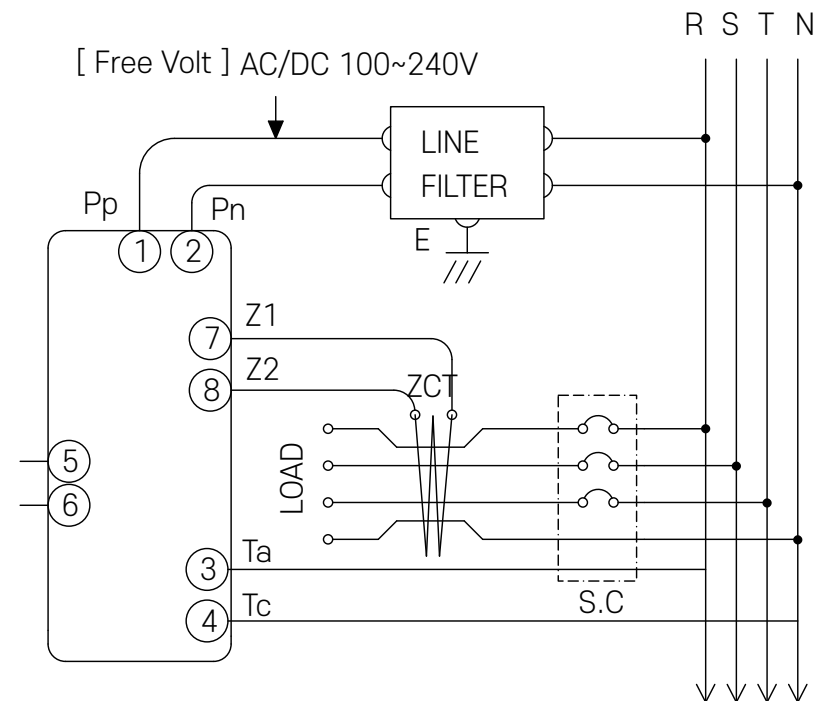
*The general rating specifications of the horizontal/vertical type are same.



DGF-D11F (vertical type) case of ground fault relay installation switchboard

Wiring Diagram

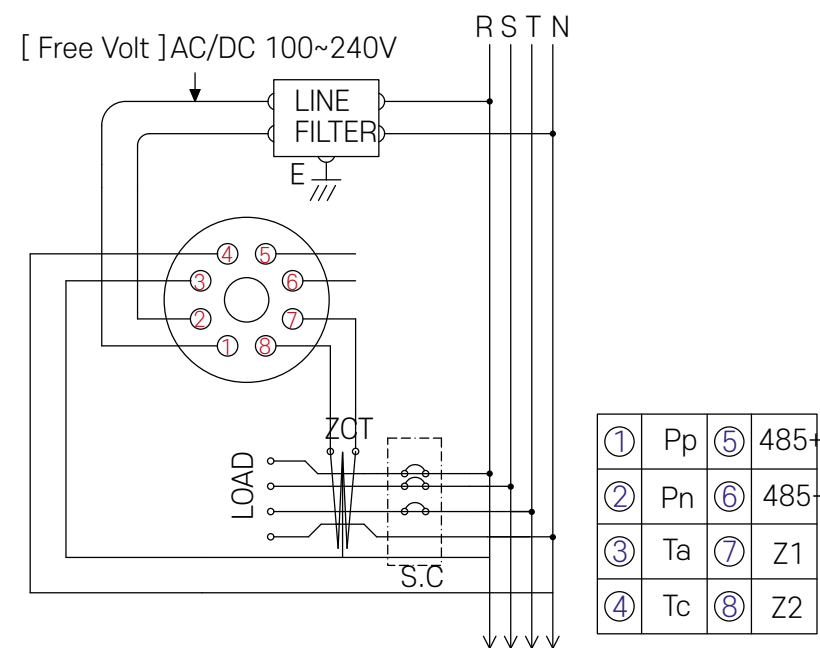
Terminal number wiring of vertical type and horizontal type is the same



Install the line filter when there are many harmonic components in the power line.

Flush mounted type

Terminal number wiring of vertical type and horizontal type is the same

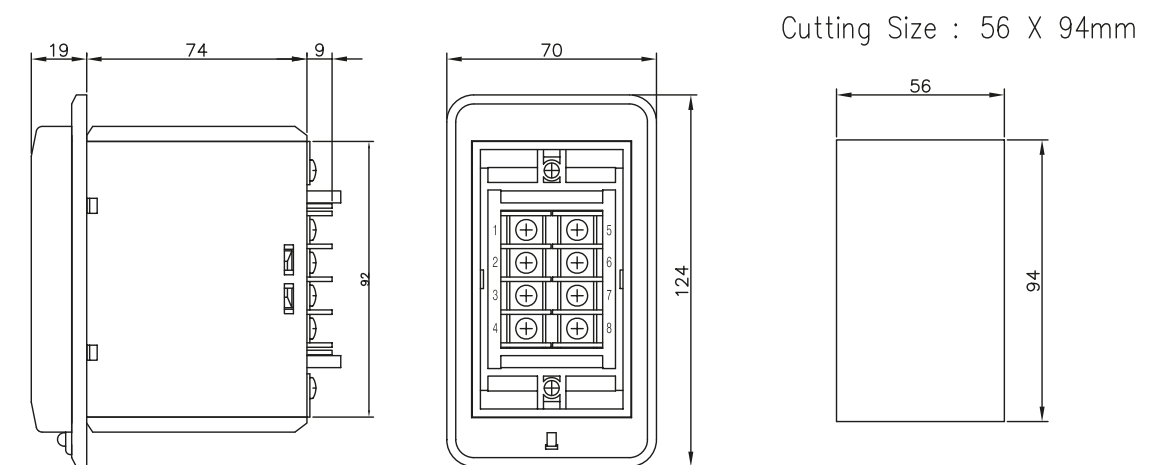


Install the line filter when there are many harmonic components in the power line.

Socket type

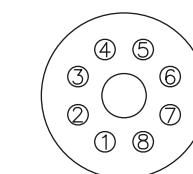
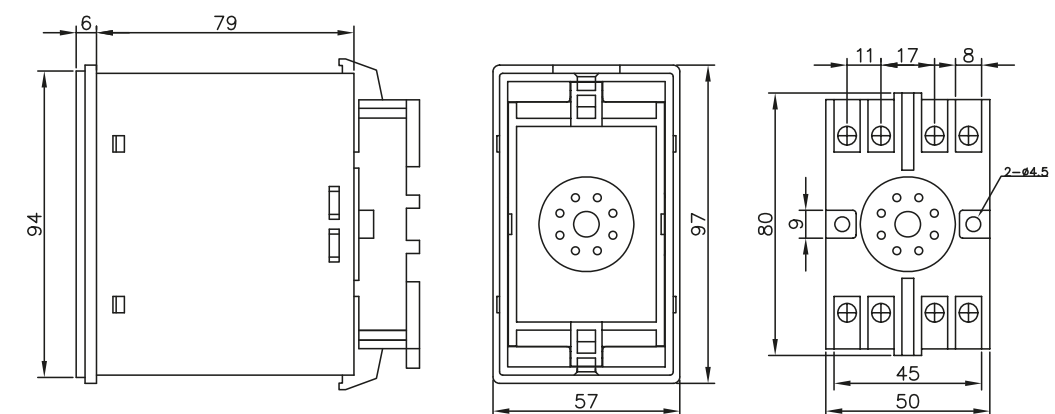
Dimensions

The external dimensions of vertical type and horizontal type are same



Flush mounted type

The external dimensions of vertical type and horizontal type are same



Socket type