



Digital Ground Fault Relay - Digital 8 / 16 Channel Relay

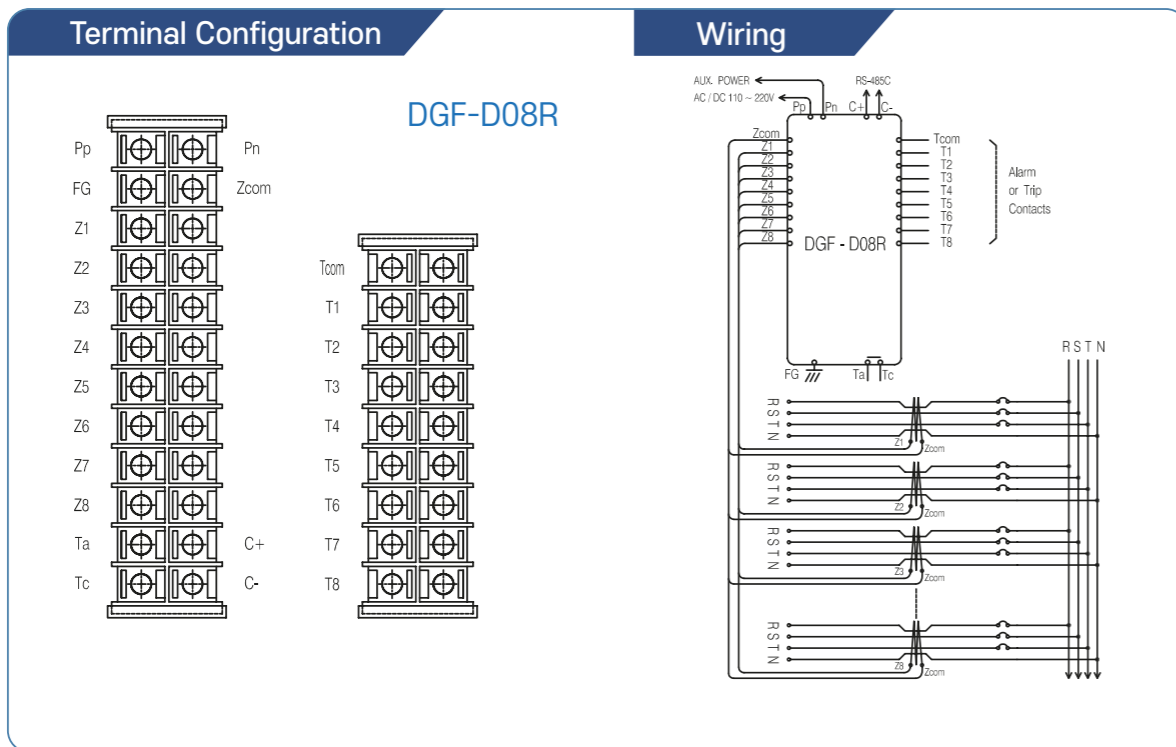
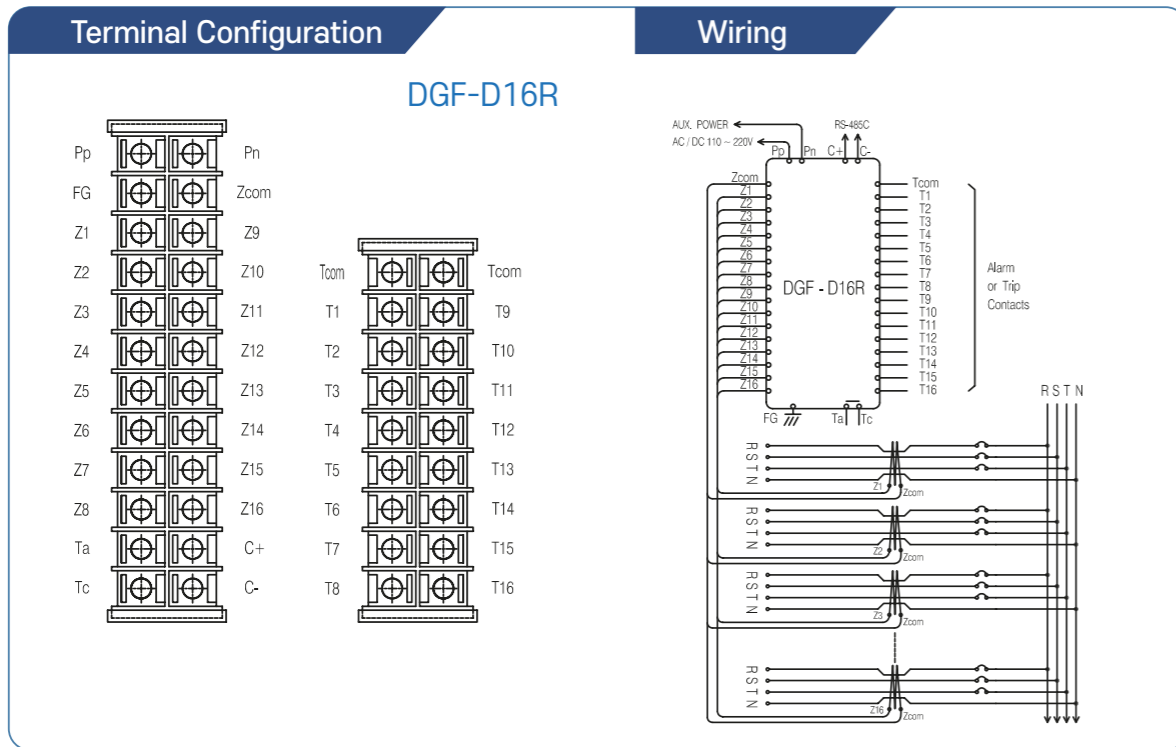
◆ This relay is an earth leakage (earth fault) relay and is composed of a circuit with high reliability and high functionality by adopting a digital method. It is an integrated type relay that accommodates a number of circuits (16 circuits / 8 circuits) of the conventional single circuit ground fault detection relay in one unit. It is possible to set a wide range of functions such as high and low locks. It is used for the purpose of protecting the ground fault of the circuit below 600V, and in the event of a ground fault in the power circuit load, it is a digital earth fault relay that detects the flowing earth fault current through ZCT (Zero Phase Transformer) and trips or alarms the circuit to protect the device and the circuit. . The digital earth fault relay applies advanced digital control technology, and it is possible to cooperate with the protection of the power system, and it is possible to correct the operation time and operation current more accurately. In addition, since accident information can be recorded and stored, accident analysis is possible, which makes power management very easy.

General Information

Standard Enviromant	Operation Temp.	-10°C ~ 50°C
	Storing Temp.	-20°C~ 50°C
	Relative humidity	Less than 80% [No Condensing]
	Elevation	Less than 2,000m sea level / Place no vibration and shock
제어전원	정격주파수	50 / 60Hz [±5%]
	정격전압	AC / DC 110 ~ 220V
	동작전압	AC 85 ~ 240V
ZCT	정격	AC 200mA / 100mV
	출력 오차	AC 75 ~ 125mV / Load resistance 2kΩ

Rating and Specificatin

MODEL		DGF - D16R	DGF - D08R
Input Circuit		16 circuit	8 circuit
Output Contact	Individual contact	16a Contact	8a Contact
	Common contact	1a Contact	
	Contact capacity	AC 250V, 10A / DC 30V, 10A (rev.2)	
Operation Current	Current TAP	LOCK, 0.1 ~ 10.0A [0.1A Step]	
	Measuring range	0.01 ~ 12.0A (rev.2)	
	Operation range	80~100% of each correction value	
Operation Time	Op. characteristic	Definite Time	
	LEVER	0.05 ~ 10.00sec [0.05sec Step]	
	Op. time error	0.05 ~ 0.20sec : within ±25ms / 0.20 ~ 10.00sec : within ±10%	
Return	Return current	firmly return at 90% of each correction value	
	Return time	within 100ms	
	Return method	Auto / Manual	
H.M.I	LED	[GREEN] : Power [YELLOW] : Current Set / Time Set / Fault View / Comm [RED] : Auto / each circuit Alarm	
Communication		RS-485C Isolation 1Port / Protocol : Modbus RTU / Speed : 9,600 / 19,200bps	
Applicable Standard		KS C8328 Earth leakage relay	



- ### Application Examples
- Pp : Control power (+)
 - Pn : Control power (-)
 - E : Ground connect
 - C+ : Comm. port (+)
 - C- : Comm. port (-)
 - Z1~Z16 : Analog input per circuit (+)
 - Zcom : Analog input per circuit (-) (common)
 - T1~T16 : Output contact per circuit (+)
 - Tcom : Output contact per circuit (-) (common)
 - TA : Common output contact (+)
 - TC : Common output contact (-)

