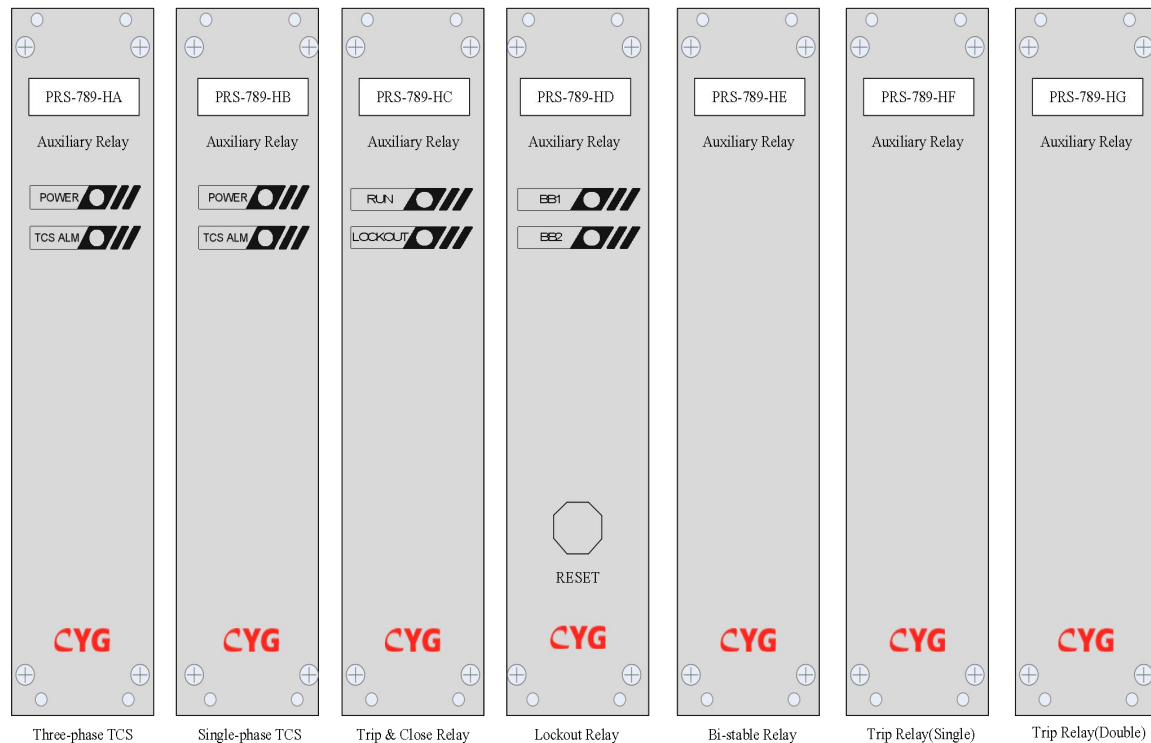


PRS-789-H **CYG**

General Application

PRS-789 serial auxiliary relay mostly cooperates with main protection relay to achieve trip circuit supervision, from the positive supply to the negative supply whilst the circuit breaker is open or close status, and as well trip & close activation with self-adaption trip & close coil current, or lockout relay with bi-stable function.



❖ Front Panel

Feature

Item	Parameter
Performance	High levels of reliability and dependability
IP degree	Reliable operation over a wide temperature range
Power supply	Rated auxiliary voltage: 220V, 125V, 110V.

Type and Function

Type	Function	Application
PRS-789-HA	Three Phase Trip circuit supervision	mostly use for Three-Phase operation circuit breaker with one trip coil and one close coil
PRS-789-HB	SinglePhase trip circuit supervision	mostly use for Single-Phase (3 Segregated Phase) operation circuit breaker
PRS-789-HC	Trip relay &close relaywith self-latching function	mostly use for current operation circuit breaker
PRS-789-HD	Lockout relay, repeat relay, high burden trip contact	mostly use for lock-out close circuit after CB trip and initiating trip circuit
PRS-789-HE	Bi-stable relay, AC voltage switching relay	Mostly use for signal selection or switching control
PRS-789-HF	Self-Reset repeat tripping relay with single input	Used for relaying protection device to repeat tripping with single input
PRS-789-HG	Self-Reset repeat tripping relay with double inputs	Used for relaying protection device to repeat tripping with double input

Relay Specifications

PRS-789-HA Three Phase TCS Relay

Standard	IEC 60225-6: 1988
Rated voltage	Un DC110V、125V、220V、48V、30V
TCS Pickup voltage	55% ~70%Un
TCS drop off delay	300ms
Output contacts	TCS: 2NO/2NC
Maximum voltage for contact	380Vac, 250Vdc
Voltage withstand for normally open contact	1200Vac, 1min
Current carrying capacity for contact	8A
Overcurrent capacity for contact	50A@200ms, 20A@0.5s, 10A@3s
Breaking capacity for contact (L/R=40ms)	1.2A@48Vdc, 0.5A@110Vdc, 0.25A@220Vdc
Current of supervision circuit(mA)	close status: 9 mA, open status:8 mA
dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
Weighty	0.7kg
enclosure IP degree	IP40
Operating temperature	25°C~+55°C
Relative humidity	5%~95%, without condensation

PRS-789-HB Single Phase TCS Relay

Standard	IEC 60225-6: 1988
Rated voltage	Un DC110V、125V、220V
Pickup voltage	55% ~70%Un
drop off delay	300ms
Output contacts	TCS:2NO/2NC
Maximum voltage for contact	380Vac, 250Vdc
Voltage withstand for normally open contact	1200Vac, 1min
Current carrying capacity for contact	8A
Over current capacity for contact	50A@200ms, 20A@0.5s, 10A@3s

Relay Specifications

Breaking capacity for contact (L/R=40ms)	1.2A@48Vdc, 0.5A@110Vdc, 0.25A@220Vdc
Current of supervision circuit(mA)	close status: 9 mA, open status:8 mA
dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
enclosure IP degree	IP40
Operating temperature	25°C~+55°C
Relative humidity	5%~95%, without condensation

PRS-789-HC Trip & Close Relay

Standard	IEC 60225-6: 1988
Self-adaptive current range for trip & close coil	1A~8A
Rated voltage drop	<2V
Pickup current	0.2A~0.5A
Operating time	<10ms
Drop off delay	<10ms
Output contacts	3 phase, 1NO per phase
Maximum voltage for contact	380Vac, 250Vdc
Voltage withstand for normally open contact	1200Vac, 1min
Current carrying capacity for contact	8A
Over current capacity for contact	50A@200ms, 20A@0.5s, 10A@3s
Breaking capacity for contact (L/R=40ms)	1.2A@48Vdc, 0.5A@110Vdc, 0.25A@220Vdc
Dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
Enclosure IP degree	IP40
Operating temperature	25°C~+55°C
Relative humidity	5%~95%, without condensation

Relay Specifications

PRS-789-HD Lockout Relay

Standard	IEC 60225-6: 1988
Rated voltage	Un DC110V、125V、220V
Pickup voltage	55% ~70%Un
Pickup power	>25W: 220Vdc, >9W: 110Vdc, 125Vdc
Operating time	<10ms
Reset time	<15ms
Current of supervision relay coil	1.5mA
Output contacts	Ten groups of electrical reset relay (6 normally open contacts and 4 normally closed contact), one group of signal contact Eight groups of electrical reset relay (6 normally open contacts and 2 normally closed contacts), one group of signal contact
Maximum voltage for contact	380Vac, 250Vdc
Voltage withstand for normally open contact	1200Vac, 1min
Current carrying capacity for contact	8A
Over current capacity for contact	50A@200ms, 20A@0.5s, 10A@3s
Breaking capacity for contact (L/R=40ms)	1.2A@48Vdc, 0.5A@110Vdc, 0.25A@220Vdc
dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
enclosure IP degree	IP40
Operating temperature	25°C~+55°C
Relative humidity	5%~95%, without condensation

Relay Specifications

PRS-789-HE General Bi-stable Relay

Standard	IEC 60225-6: 1988
Rated voltage	Un DC110V、125V、220V
Pickup voltage	55% ~70%Un
Pickup power	>25W: 220Vdc, >9W: 110Vdc, 125Vdc
Operating time	<10ms
Reset time	<10ms
Output contacts	4 groups of switching contacts, one group of signal contact
Maximum voltage for contact	380Vac, 250Vdc
Voltage withstand for normally open contact	1200Vac, 1min
Current carrying capacity for contact	8A
Over current capacity for contact	50A@200ms, 20A@0.5s, 10A@3s
Breaking capacity for contact (L/R=40ms)	1.2A@48Vdc, 0.5A@110Vdc, 0.25A@220Vdc
dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
enclosure IP degree	IP40
Operating temperature	25°C~+55°C
Relative humidity	5%~95%, without condensation

Relay Specifications

PRS-789-HF Repeat Tripping Relay

Operating voltage	55%~70%Un
Operating time	3~5ms
Rated power	Per coil≤3W, All coil≤6W
Current carrying capacity for contact	10A
Over current capacity for contact	30A@0.2s
Maximum over current capacity for contact	12A@4s
Input contacts	1
Output contacts	4 NO/NC, 4 NO
Voltage withstand for normally open contact	400Vac, 250Vdc
Medium strength: coil and contact, coil and shell, shell and contact	2000Vac/1min, The leakage current <10mA
Dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
Enclosure IP degree	IP40
Service temperature limits	-25°C ~ +70°C (-40° F to +158° F)
Storage and transport temperature	-40°C ~ +70°C (-40° F to +158° F)
Relative humidity	5%~95%, without condensation

Relay Specifications

PRS-789-HG Repeat Tripping Relay

Operating voltage	55%~70%Un
Operating time	3~5ms
Rated power	Per coil≤3W, All coil≤6W
Current carrying capacity for contact	10A
Over current capacity for contact	30A@0.2s
Maximum over current capacity for contact	12A@4s
Input contacts	2
Output contacts	1 NO/NC, 3NO for per Input contact
Voltage withstand for normally open contact	400Vac, 250Vdc
Medium strength: coil and contact, coil and shell, shell and contact	2000Vac/1min, The leakage current <10mA
Dimension	40mm×173.5mm×231mm (W×H×D)
Installation method	flush mounted
weighty	0.7kg
Enclosure IP degree	IP40
Service temperature limits	-25°C ~ +70°C (-40° F to +158° F)
Storage and transport temperature	-40°C ~ +70°C (-40° F to +158° F)
Relative humidity	5%~95%, without condensation