



POM2-3243

Three-phase Protection Relay Test Set

Specifications

Voltage generators

Setting range

4-phase ac(L-N)	4×0~300V
1-phase ac(L-L)	1×0~600V
dc (L-N)	4×±0~300V
dc (L-L)	1×±0~600V

Power

4-phase ac(L-N)	4×75VA typ., at 300V 4×50VA guar., at 300V
3-phase ac(L-N)	3×100VA typ., at 300V 3×85VA guar., at 300V
1-phase ac(L-L)	1× 200VA typ., at 600V 1× 170VA guar., at 600V
dc (L-N)	4×100W at ±300 V

Accuracy error < 0.08 % rd.+0.02 % rg. guar., at 0~300 V
< 0.02 % rd.+0.01 % rg. typ., at 0~300 V

Ranges 300V

Resolution 10mV

Distortion < 0.05 % typ., (< 0.1 % guar.)

Current generators

Setting range

3-phase ac(L-N)	3×0~20A
1-phase ac(3L-N)	1×0~60A
1-phase ac(L-L)	1×0~20A
dc (L-N)	3×±0~10A
dc (3L-N)	1×±0~30A

Power

3-phase ac(L-N)	3×140VA at 20A
1-phase ac(L-L)	1×280VA at 20A
1-phase ac(3L-N)	1×280VA at 60A
dc(L-N)	3×100W at 10A
dc(3L-N)	1×300W at 30A

Max compliance voltage(L-N)(L-L)

10Vpk/20Vpk

Accuracy error < 0.08 % rd.+0.02 % rg. guar.,
< 0.02 % rd.+0.01 % rg. typ.

Ranges 20A

Resolution 1mA

Distortion < 0.05 % typ., (< 0.1 % guar.)

General

Frequency

Sine signal	DC, 0.001Hz~1000Hz
Transient signal	DC ~10.0kHz
Accuracy	±0.3ppm
Resolution	0.001Hz

Phase

Angle range	-360°~+360°
Accuracy	<0.05° typ., <0.1° guar. at 50/60Hz
Resolution	±0.001°

Binary inputs

Number	8
Input characteristics	0~400V dc/ac (peak) with adjustable threshold or potential free
Time resolution	50μs
Max. measuring time	Infinite
Debounce/Deglitch time	0~25ms
Counting function	< 3kHz at pulse width>150μs

Binary outputs, relay

Number	4 (1-4)
Type	Potential free relay contacts, software controlled
Break capacity ac	Vmax: 300Vac /Imax: 8A /Pmax: 2000VA
Break capacity dc	Vmax: 300Vdc /Imax:8A /Pmax: 150W

Binary outputs, semiconductor

Number	4 (5-8)
Type	semiconductor
Break capacity	Vmax: 300Vdc /Imax:0.5A /Pmax: 150W
Update rate	100μs
Imax	0.5A

Auxiliary dc supply

Voltage range	0~300V
Power	88W at 110V, 110W at 220V, 100W at 300V
Accuracy	error < 0.1 % rg. typ. (<0.5 % rg. guar.)

DC voltage measuring inputs (Optional)

Measuring range	0~±10V
Accuracy	error <0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	100KΩ

DC current measuring inputs (Optional)

Measuring range	0~±20mA
Accuracy	error <0.02% rg. typ. (<0.05% rg. guar.)
Input impedance	50Ω

Low level outputs (Optional)

Setting range	12×0~10Vpk
Max. output current	1mA
Accuracy	error < 0.025 % typ. < 0.07 % guar.at 1~10Vpk
Resolution	250μV
Distortion(THD+N)	< 0.05 % typ. (< 0.1 % guar.)
Connection	14 pin combination socket

Power supply

Nominal input voltage	110~240Vac
Permissible input voltage	90~260Vac
Nominal frequency	50/60Hz
Permissible frequency	45~65Hz

Environmental conditions

Operation temperature	0~+50°C
Storage temperature	-25~+70°C
Relative humidity	5~95% non-condensing
EMC(E&I)	EN/IEC 61326-1
Safety	EN/IEC 61010-1/1-12/2-030 EN/IEC 60255-25/27
Others	FCC Part 15: Sub B ECS-001:2006 LVD EU ZEK 01.4 -08/11/11

Others

PC connection	Ethernet, 10M/100M
Low level outputs interface (Optional)	Circular connector
GPS/IRIG-B interface	Circular connector
IEC61850 Goose	Ethernet interface (Optional)
Ground Socket(earth)	4mm banana socket
Weight	13kg
Dimensions (W x H x D)	390mm ×287mm×194mm



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