

CALIBRATION AND TEST REPORT

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Device: Protection relay (P3U30)

S/N: SM2536512601066

VID: P3U30-200147371

Program version: V30.208
HW version: 1.2
Order code: 7AAA1CCAA
Auxiliary power: 48 - 240 Vac/dc
Nominal inputs current: 22.5mV / $\sqrt{3}$
Nominal inputs voltage: 3.25V / $\sqrt{3}$
Frequency: 50/60 Hz



REL52074

In: 1/5A Io1n: 1/5A

Auxiliary power:

Voltage	Current	Power (< 15W)
111 Vdc	47.96 mA	5.33 W

Communication:

Local (front) ☒ OK
 Remote ☒ OK 2 x RJ-45-Interface
 Ethernet (MAC 001AD3425C7D)

Digital inputs:

☒ OK (Connectors: X3:3-6,X4:1-14)

Output relays:

☒ OK (Connectors: X3:7-20,X5:9-14)

Insulation Test:

☒ OK (IEC 60255-27 2kV, 50Hz)

Meas. Accuracy:

LPCT = Prim: 1000 A

CTo = 500 A / 5 A (In = 5 A) or 100 A / 1 A (In = 1 A)

LPVT = Prim: 1000V f=50Hz

Current channels:

Auxiliary power

	Channel	Supply value	Measured	Error	Tolerance	
0,1 x In	IL1	22.50 mV	100 A	0.00 %	±2,5%	Pass
	IL2	22.50 mV	100 A	0.00 %		Pass
	IL3	22.50 mV	100 A	0.00 %		Pass
1,0 x In	IL1	225.00 mV	1001 A	0.10 %	±0,4%	Pass
	IL2	225.00 mV	1001 A	0.10 %		Pass
	IL3	225.00 mV	1001 A	0.10 %		Pass
4,0 x In	IL1	900.00 mV	4003 A	0.08 %	±2,5%	Pass
	IL2	900.00 mV	4003 A	0.08 %		Pass
	IL3	900.00 mV	4002 A	0.05 %		Pass

Residual current:

	Channel	Supply value	Measured	Error	Tolerance	
0,01 x In	In = 1A	0.0100 A	1.00 A	-0.11 %	±20%	Pass
0.10 x In	In = 1A	0.0999 A	9.99 A	-0.01 %	±2%	Pass
1.00 x In	In = 1A	1.0001 A	100 A	0.01 %	±0,3%	Pass
0,01 x In	In = 5A	0.0500 A	4.99 A	-0.20 %	±20%	Pass
0.10 x In	In = 5A	0.5000 A	49.96 A	-0.08 %	±2%	Pass
1.00 x In	In = 5A	5.0040 A	500 A	-0.06 %	±0,3%	Pass

Voltage channels:

Mode: 3LN/Lny/z

	Channel	Supply value	Measured	Error	Tolerance	
0,02 x Un	UL1	0.065 V	20.0 V	0.00 %	±25%	Pass
	UL2	0.065 V	20.0 V	0.00 %		Pass
	UL3	0.065 V	20.0 V	0.00 %		Pass
	UL1y	0.065 V	20.0 V	0.00 %		Pass
	UL1z	0.065 V	20.0 V	0.00 %		Pass
0,1 x Un	UL1	0.325 V	100.0 V	0.00 %	±2,5%	Pass
	UL2	0.325 V	100.0 V	0.00 %		Pass
	UL3	0.325 V	100.0 V	0.00 %		Pass
	UL1Y	0.325 V	100.0 V	0.00 %		Pass
	UL1z	0.325 V	100.0 V	0.00 %		Pass
1,00 x Un	UL1	3.250 V	1001.0 V	0.10 %	±0,4%	Pass
	UL2	3.250 V	1001.0 V	0.10 %		Pass
	UL3	3.250 V	1001.0 V	0.10 %		Pass
	UL1Y	3.250 V	1001.0 V	0.10 %		Pass
	UL1z	3.250 V	1001.0 V	0.10 %		Pass

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Functional Test

Stage	Delay type	I>	Tp	Input	Measured	Error	Tolerance	
I >	NI	0.5 pu	0.10	0.620 pu	3.338 s	0.091 s	±5%	Pass

Stage	Delay type	I>	t>	Input		Error	Tolerance	
IDir >	DT	1.0 pu	0.30 s	1.1 pu	0.311 s	0.011 s	±25ms	Pass
I >>	DT	2.0 pu	0.05 s	2.1 pu	0.051 s	0.001 s		Pass
Io >	DT	0.05 pu	1.00 s	0.06 pu	1.014 s	0.014 s		Pass

Accepted

Name:

OPE

Date: 2025-09-05