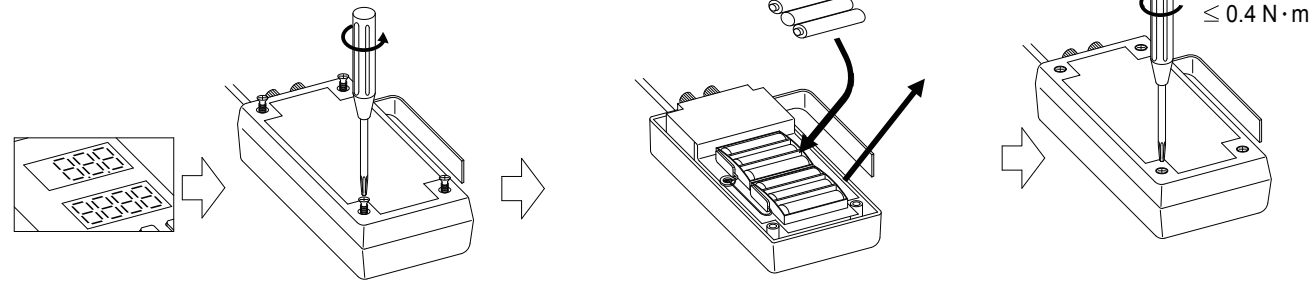


Replace batteries



Reference for test

Type	Reference current of test I _r (A)	Current setting I _r		LTD pick up current (%I _r)	70% PAL pick up current (%I _r)	Operating time at 200%		STD and INST operating time (s) *1	
		(A)	(%I _r)			Signal level (%I _r)	Operating time (s)		PAL operating time (s)
NV250-SEW/HEW	250	125	50	53~62	30~40	100	T _L =12 10~14	T _L =12 5~7	T _S =0.06 0.02~0.06
		150	60	63~75	36~48	120			
		175	70	74~87	42~56	140			
		200	80	84~100	48~64	160			
		225	90	95~112	54~72	180			
NF125-SGW(RE) NF125-HGW(RE)	32	16	50	53~62	30~40	100	T _L =60 48~72	T _L =60 24~36	T _S =0.1 0.05~0.11
		32	100	105~125	60~80	200			
	63	32	51	53~63	30~40	102	T _L =80 64~96	T _L =80 32~48	
		63	100	105~125	60~80	200			
		63	63	65~80	40~50	126			
100	100	100	105~125	60~80	200	T _L =100 80~120	T _L =100 40~60		
	125	75	63~75	36~48	120				
NF160-SGW(HGW)(RE)	160	80	50	53~62	30~40	100	T _L =12 10~14	T _L =12 5~7	T _S =0.2 0.14~0.22
		160	100	105~125	60~80	200			
NF400-SEW/HEW NF400-REW/UEW NV400-SEW/HEW NV400-REW	400	250	50	53~62	30~40	100	T _L =60 48~72	T _L =60 24~36	T _S =0.3 0.22~0.34
		225	56	60~70	34~45	112			
		250	62	66~78	37~50	125			
		300	75	79~93	45~60	150			
		350	87	92~109	52~70	175			
NF630-SEW/HEW NF630-REW NV630-SEW/HEW	630	400	100	105~125	60~80	200	T _L =150 120~180	T _L =150 60~90	INST 0.00~0.02
		300	47	48~60	30~38	95			
		350	55	57~70	35~44	111			
		400	63	65~80	40~50	127			
		500	79	81~100	50~62	159			
NF800-CEW/SEW NF800-HEW/REW NF800-UEW NV800-SEW/HEW	800	600	95	98~120	60~74	190	T _L =12 10~14	T _L =12 5~7	T _S =0.06 0.02~0.06
		630	100	105~125	60~80	200			
		400	50	53~62	30~40	100			
		450	56	60~70	34~45	112			
		500	62	66~78	37~50	125			
NF1000-SEW	1000	600	75	79~93	45~60	150	T _L =150 120~180	T _L =150 60~90	INST 0.00~0.02
		700	87	92~109	52~70	175			
		800	100	105~125	60~80	200			
		500	50	53~62	30~40	100			
		600	60	63~75	36~48	120			
NF1250-SEW	1250	700	70	74~87	42~56	140	T _L =150 120~180	T _L =150 60~90	INST 0.00~0.02
		800	80	84~100	48~64	160			
		900	90	95~112	54~72	180			
		1000	100	105~125	60~80	200			
		1200	96	101~120	58~77	192			
NF1600-SEW	1600	1250	100	105~125	60~80	200	T _L =150 120~180	T _L =150 60~90	INST 0.00~0.02
		800	50	53~62	30~40	100			
		1000	63	65~80	40~50	127			
		1200	75	79~93	45~60	150			
		1400	88	92~109	53~70	175			

Note *1: In case of type NF125/160/250-SGW/HGW (RE).
Even if it makes T_S into which value (0.06-0.1-0.2-0.3) in the test of STD pick up (mode-S), the test result is displayed as "0.06".
However, it is not the abnormalities of the breaker tester.
In practice, it is set up as setting value.
Only when tested by "Y-250".

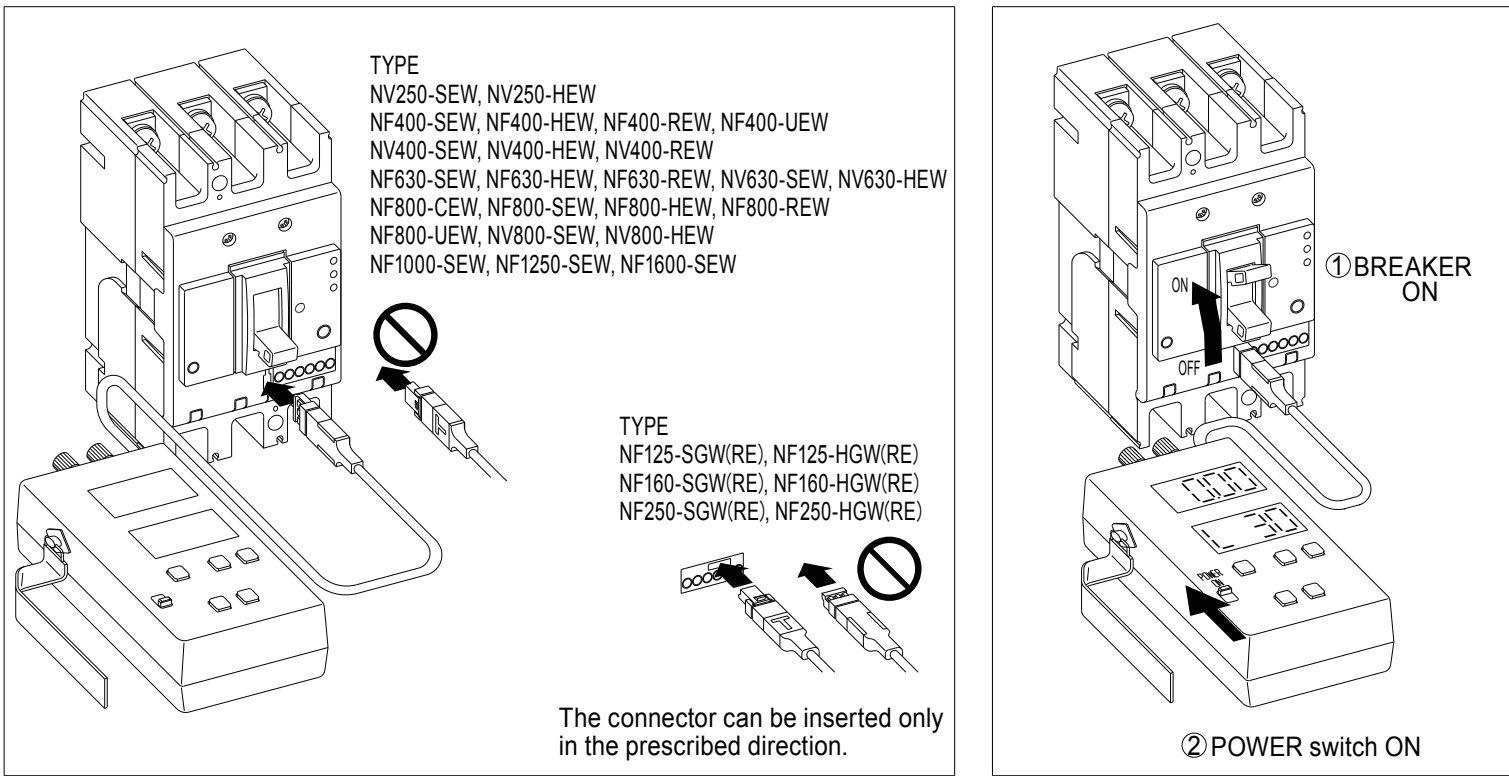
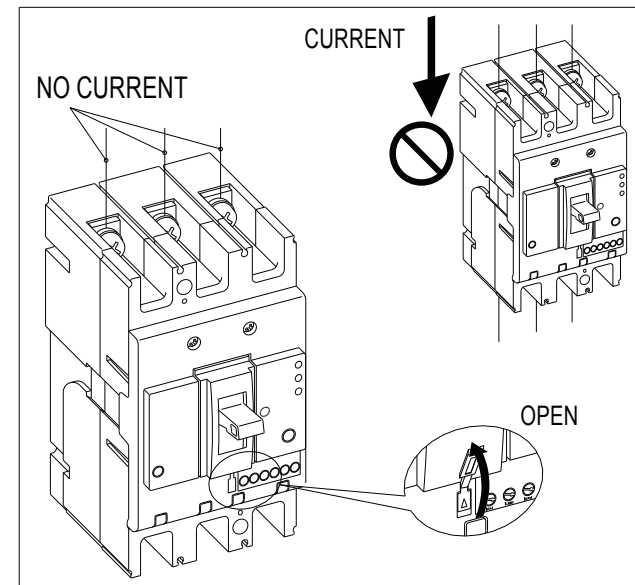


BREAKER TESTER Y-250 INSTRUCTIONS MANUAL

TYPES NV250-SEW, NV250-HEW
NF125-SGW(RE), NF125-HGW(RE)
NF160-SGW(RE), NF160-HGW(RE)
NF250-SGW(RE), NF250-HGW(RE)
NF400-SEW, NF400-HEW, NF400-REW, NF400-UEW
NV400-SEW, NV400-HEW, NV400-REW
NF630-SEW, NF630-HEW, NF630-REW, NV630-SEW, NV630-HEW
NF800-CEW, NF800-SEW, NF800-HEW, NF800-REW, NF800-UEW
NV800-SEW, NV800-HEW
NF1000-SEW, NF1250-SEW, NF1600-SEW

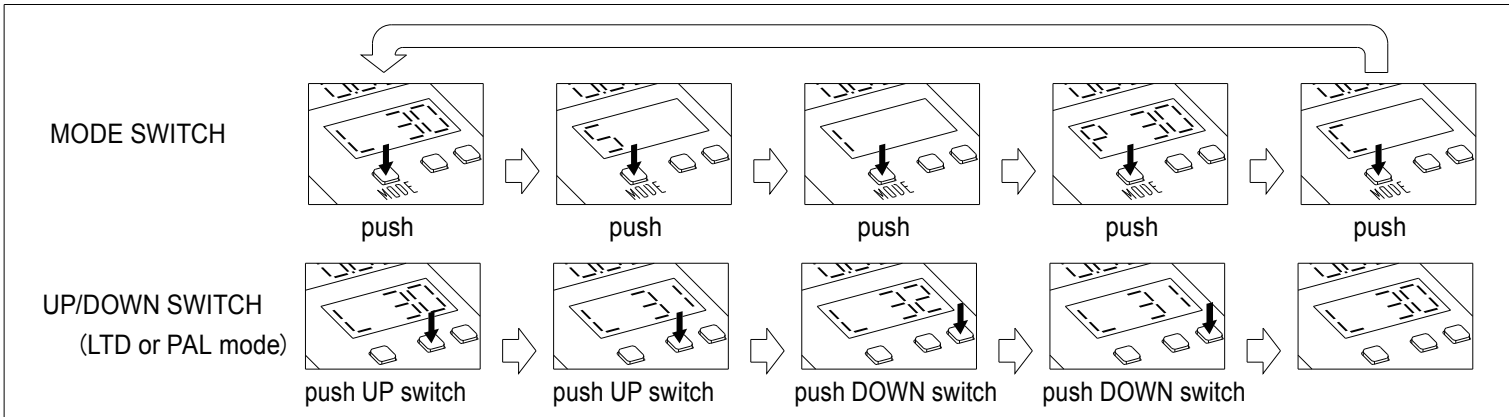
Specification

Test items	LTD, PAL pickup and operating time 30%~300% of the maximum rated current Operating time STD 1500% of the maximum rated current INST 2000% of the maximum rated current Setting point of characteristics CHECK
The range of measuring time	0.00~0.99s ±0.01s 1.00~999s ±1%
Power source	Battery type R6P(1.5Vx6)
Ambient temperature for use	0°C~40°C
Outer dimensions	95×158×48mm



A number of flashing and characteristics setting point

Number	1	2	3	4	5	6	7	8	9	10					
I _r (A)	Lighting-up time of 70% LED														
	Ref. Current (A)		32	63	100	125	160	225	250	400	630	800	1000	1250	1600
	Time (s)	Min.	adjust	5	5.1	6.3	6	5	5	5	5	5	5	5	5
T _L (s)	12	60	80	100	For 125, 160 and 250A Frame										
I _S (xI _r)	2	2.5	3	3.5	For 400, 630, 800, 1000, 1250 and 1600A Frame										
T _S (s)	0.06	0.1	0.2	0.3											
I _p (xI _r)	0.7	0.75	0.8	0.85	0.9	0.95	1.0								



LTD pick up current test

NV250-SEW : $I_T = 225A$

① BREAKER ON
② MODE : L
③ START
④ LEVEL : UP
⑤ OVER LED ON
LTD pickup $103\%I_T$
⑥ STOP
⑦ STD operating time test
⑧ BREAKER trip

PAL pick up current test

NV250-SEW : $I_T = 225A$

① BREAKER ON
② MODE : P
③ START
④ LEVEL : UP
⑤ PAL LED ON
PAL pickup $63\%I_T$
⑥ STOP
⑦ STD operating time test
⑧ BREAKER trip

LTD operating time test

NV250-SEW

① BREAKER ON
② MODE : L
③ LEVEL : 200
④ START
⑤ TRIP
Operating time $100s$
⑥ LED ON

PAL operating time test

NV250-SEW

① BREAKER ON
② CONNECT
③ MODE : P
④ LEVEL : 200
⑤ START
⑥ LED ON
Operating time $50s$

Caution

PAL-M
PALa
P2
P1 (PALc)
230 VAC

Voltage
STOP SIGNAL TERMINAL

STD operating time test

NV250-SEW

① BREAKER ON
② MODE : S
③ START
④ TRIP
Operating time $0.3s$
⑤ LED ON

In case of type NF125/160/250-SGW/HGW(RE)
Even if it makes T_s into which value (0.06-0.1-0.2-0.3)
in the case of the test of STD pick up (mode-S),
the test result is displayed as "0.06".
However, it is not the abnormalities of the breaker tester.
◀ In practice, it is set up as setting value. ▶
◀ Only when tested by "Y-250". ▶
When checking the setup, please perform setting value
check mode (mode-C).

Setting points of characteristics

NV250-SEW

① BREAKER ON
② MODE : C
③ START
④ 70% LED ON
⑤ STOP

Setting points
 $I_r : 225A$
 $T_L : 100s$
 $I_s : 2.5 \times I_r$
 $T_s : 0.1s$
 $I_p : 0.9 \times I_r$

START
70%LED ON
70%LED OFF
STOP

9s
2s
0.5s
0.5s
2s

Number	1	2	3	4	5	6	7	8	9	10		
$I_r(A)$	Lighting-up time of 70% LED											
	Ref. current(A)											
	32	63	100	125	160	225	250	400	630	800	1000	1250
Time (s)	Min. adjust											
	5	5.1	6.3	6	5	5	5	5	5	5	5	5
$T_L(s)$	Max. adjust											
	10	10	10	10	10	9	10	10	10	10	10	10
$I_s(\times I_r)$	For 125,160 and 250A Frame											
	12	60	80	100	150	For 400,630,800,1000,1250 and 1600A Frame						
$T_s(s)$	Number : 4											
	2	2.5	3	3.5	4	5	6	7	8	10		
$I_p(\times I_r)$	Number : 2											
	0.06	0.1	0.2	0.3	Number : 3							
$I_r(\times I_r)$	Number : 5											
	0.7	0.75	0.8	0.85	0.9	0.95	1.0					

INST operating time test

NV250-SEW

① BREAKER ON
② MODE : I
③ START
④ TRIP
Operating time $0.01s$
⑤ LED ON

After the test

① POWER switch OFF
② pull
③ Close