

# UL Certified Circuit Breakers

## NF100-CVFU NV100-CVFU

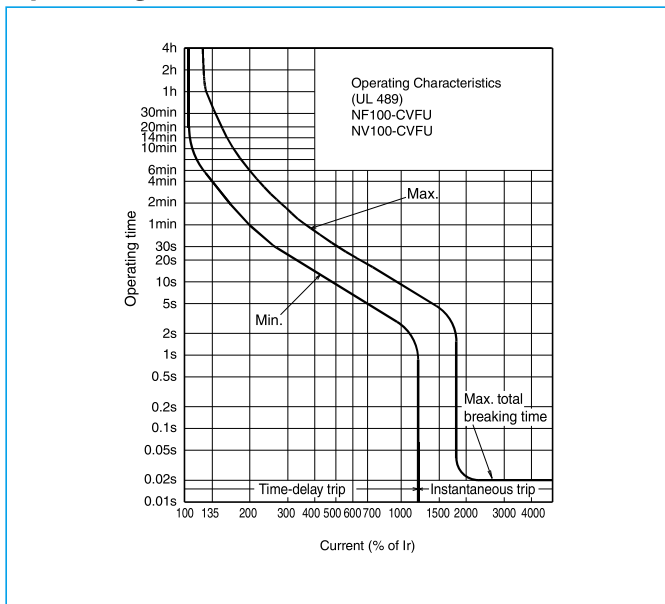


NF100-CVFU

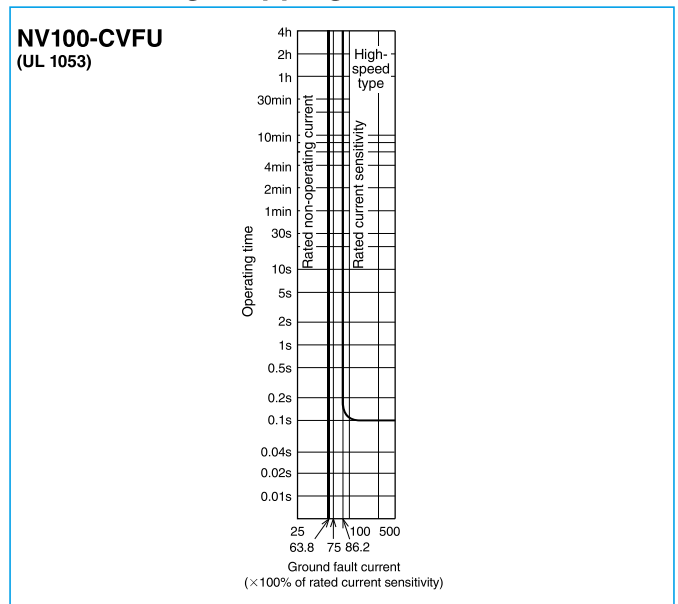
Model		NF100-CVFU		Model		NV100-CVFU					
Rated current I <sub>n</sub> (A) Reference ambient temperature 40°C		60 (70) 75 (80) (90) 100		Rated current I <sub>n</sub> (A) Reference ambient temperature 40°C		60 (70) 75 (80) (90) 100					
Number of poles		2   3		Number of poles		3					
Rated short-circuit breaking capacity (kA)	UL 489 CSA C22.2 No.5	AC	Rated voltage VAC	240		Rated voltage VAC	UL 489 IEC 60947-2 EN 60947-2	120-240			
			600V/347V	-							
			480V	-							
			480V/277V	-							
			240V	14							
120V	-										
Rated short-circuit breaking capacity (kA)	IEC 60947-2 EN 60947-2 (I <sub>cu</sub> /I <sub>cs</sub> )	AC	Rated insulation voltage U <sub>i</sub> V	600		Rated short-circuit breaking capacity (kA)	UL 489 CSA C22.2 No.5	AC	480V	-	
			690V	-							
			500V	7.5/4							
			440V	10/5							
			415V	10/5							
			400V	10/5							
			380V	10/5							
230V	15/8										
Standard attached parts (Front connection)		IEC35 rail mounting claws, Insulating barrier (2P: 2pcs, 3P: 4pcs) (Only for type with bar terminal) Mounting screw M4×0.7×55 (2 pcs) Terminal screw: M8×14 (2P: 4pcs, 3P: 6pcs)		Standard attached parts (Front connection)		IEC35 rail mounting claws, Insulating barrier (4pcs) (Only for type with bar terminal) Mounting screw M4×0.7×55 (2 pcs) Terminal screw: M8×14 (3P: 6pcs)					

Note \*1 0.1 for UL1053.

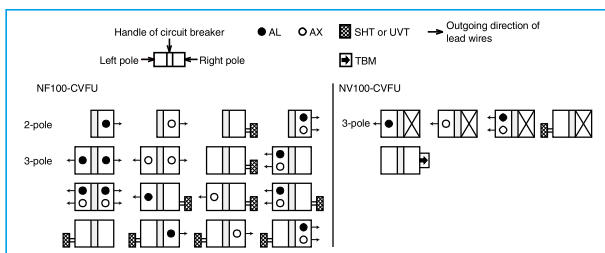
### Operating Characteristics



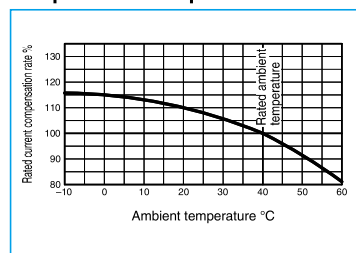
### Earth Leakage Tripping Characteristics



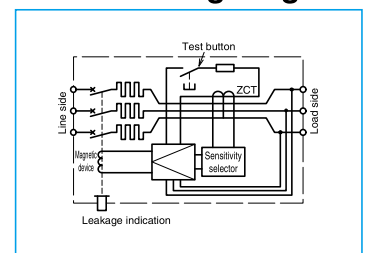
### Internal Accessories



### Temperature Compensation Curve



### Internal Wiring Diagram

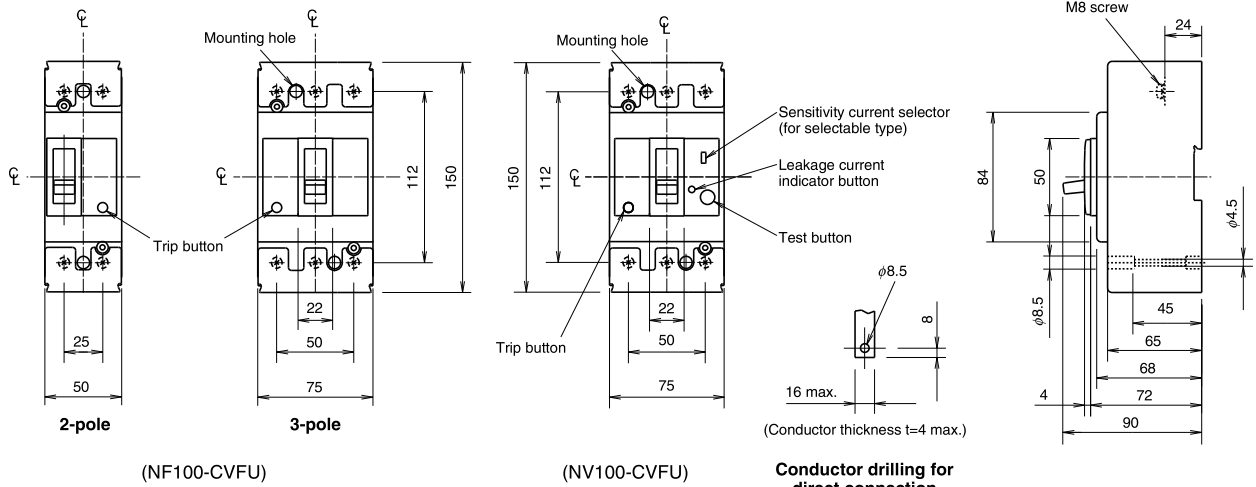


### External Accessories

Accessories			Type name	Reference page	Accessories			Type name	Reference page	
Operating handle	F	2P	F-05SVUL2	123	Terminal cover	Large	TC-L	2P	TCL-05SVU2	128
		3P	F-05SVUL					3P	TCL-05SVU2L	
	V	2P	V-05SVUL2	3P		TCL-05SVU3				
		3P	V-05SVUL			TCL-05SVU3L				
Handle lock device	C	3P	C-1SVU	127						
	HL		HLF-05SVU							
	HL-S	2P	HLS-05SVU2	134						
3P		HLS-05SVU								

# Outline Drawing

## Front connection



(NF100-CVFU)

(NV100-CVFU)

Conductor drilling for direct connection

## Compatible crimp terminals

Tightening torque 54lb-in (6N·m)

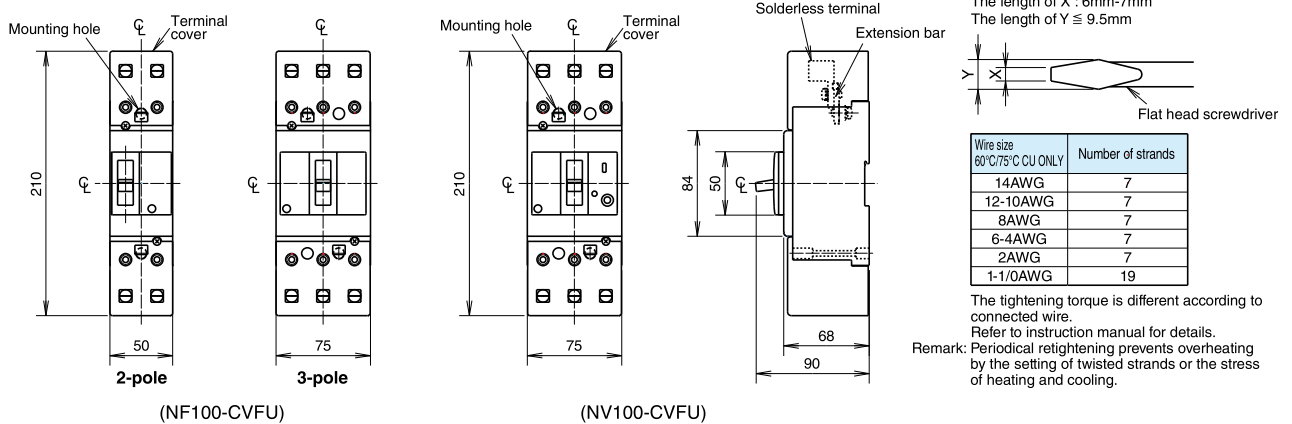
Applicable wire range	Crimp terminal type (*1)	
	mm <sup>2</sup>	AWG (#) (60°C/75°C)
2.5-2.63	14	R2-8
2.63-6.64	12-10	R5.5-8
6.64-10.52	8	R8-8
10.52-16.78	6	R14-8
16.78-26.66	4	R22-8
26.66-42.42	2	38-S8
42.42-60.57	1/0	60-2BA 60-S8
		NTM

JST: Japan Solderless Terminal Mfg. Co.

NTM: Nichifu Co., Ltd.

Note \*1 When using with a wire connection, use the crimp terminal combination shown above.

## Front connection(solderless terminal)



(NF100-CVFU)

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## Size of screwdriver with bolting

Please bolt with flat head screwdriver.

The length of X : 6mm-7mm

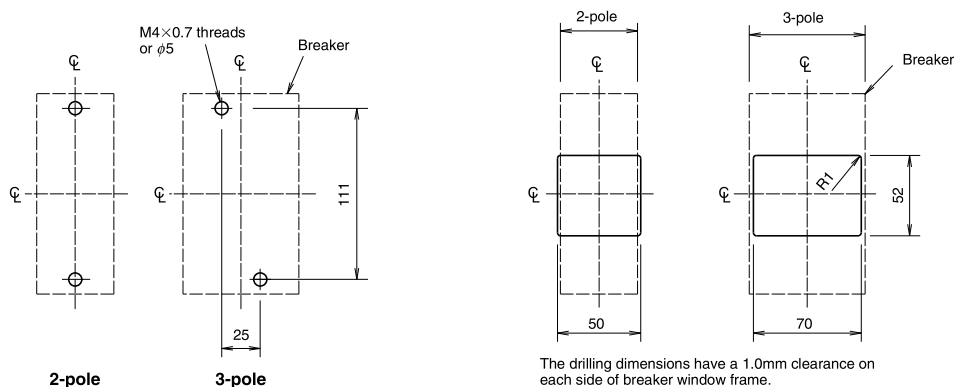
The length of Y : ≤9.5mm

Wire size 60°C/75°C CU ONLY	Number of strands
14AWG	7
12-10AWG	7
8AWG	7
6-4AWG	7
2AWG	7
1-1/0AWG	19

The tightening torque is different according to connected wire.

Refer to instruction manual for details.

Remark: Periodical retightening prevents overheating by the setting of twisted strands or the stress of heating and cooling.



2-pole

3-pole

The drilling dimensions have a 1.0mm clearance on each side of breaker window frame.

Drilling (Tapping)

Front-panel cutout