V-Type Operating Handle Operating handle of door mount type consisting of operating section to be mounted on circuit breaker body and operating handle on panel door

Protection class (IEC 60529) IP65 as standard

Appearance (Color: Munsell N1.5)

RTI

• The handle can be locked only in the OFF position with up to three commercially available padlocks (35 mm or 40 mm). • The panel door can be opened in the OFF position. In the ON and trip positions, the panel door is

• The handle provides an isolation function in combination with the circuit breaker body.

Conforming to the safety regulations of EN Standard (EN 60204-1)

locked and cannot be opened. However, the door can be opened even in the ON and trip positions by operating the release part with a tool.

Outline drawings



Dimensional drawings for front plate drilling

(b)

Center





Dimensional drawings of circuit breaker mounting holes



Center of hinge and breaker



	н	Х					
For 30 to 250 A		5H+100					
frames	0 or more	or more					
For 400 to 800 A	0 01 III0IE	8H+150					
frames		or more					

The above figure shows the relationship viewed from the load side

Door lock withstand load

	F(N)
30 to 800A frames	200

Table 21 Summary of dimension

Тур	e name	A	pplicable	model		Refere	ence dr	awing				Dimer	nsions	(mm)														
.						g					Stationary	Adjus						Trip button										
Stationary type	Adjustable type	MCCB	Number	ELCB	Number	imensional drawing	Dril pl	ling an	А	в	type	type D	e(-2) D	Е		G	J	position (*5)										
			of poles		of poles	ΪĘρ					С	(min)	(max)					(- /										
V-05SV2 V-05SVE2		NF32-SV NF63-CV, NF63-SV, NF63-HV	2P	-	-			d				-	-		12.5			Ν										
V-05SV V-05SVE		NF32-SV NF63-CV, NF63-SV, NF63-HV		NV32-SV NV63-CV, NV63-SV, NV63-HV –	2P, 3P _			е				162	300	-	25			L										
V-1SV2, V-1SVE2]	NF125-CV, NF125-SV	2P	-	-	1		d	39	1		-	-		15	111		Ν										
		NF125-CV. NF125-SV		NV125-CV, NV125-SV	3P			е																				
V-1SV V-1SVE	(*1)		4P 2P, 3P	NV125-HV	4P	-		f e						-														
V-13VL	Adjusting unit	NF125-HV	4P		-	Fig.		f							30		M4	L										
V-1UV	V-AD3S is mounted on	NF125-UV	2P, 3P	_	2	b	0	39	61	125			30.5		172	or ø5												
V-1UVE	stationary type.		4P				h	39					30.5		1/2													
V-2SV V-2SVE		NF125-SEV, NF125-HEV, NF125-SGV NF125-LGV, NF125-HGV, NF125-RGV NF160-SGV, NF160-LGV, NF160-HGV NF250-CV, NF250-SV, NF250-HV		NV125-SEV, NV125-HEV NV250-CV, NV250-SV, NV250-HV	ЗP				е				162	300	_		126											
-		NF250-SGV, NF250-LGV, NF250-HGV NF250-SEV, NF250-HEV, NF250-RGV	4P	NV250-SEV, NV250-HEV	4P			f	41						35			К										
V-2UV V-2UVE		NF250-UV	2P, 3P 4P	-	-			g h						37.5		201												
V-03SVUL2 V-03SVUL		NF50-SVFU	2P 3P	NV50-SVFU	2P 3P	Fig.	а	d e	39	61	125	-	-	-	9 18	82.5		M										
V-05SVUL2	(*1)	NF100-CVFU	2P	-	-	Fig. 2	b	d	39	61	125	-	-		12.5	111	M4	N										
V-05SVUL	Adjusting unit			NV100-CVFU	3P	2	0	е		01	125	162	300	_	25		screw											
V-1SVUL V-2SVUL	V-AD3S is mounted on	NF125-SVU, NF125-HVU NF250-SVU, NF250-HVU		NV125-SVU, NV125-HVU NV250-SVU, NV250-HVU	3P 3P	Fig.	b	g	39	61	125	162	300	6	30 35	123 126	or <i>ø</i> 5	<u> </u>										
V-2SUL	stationary type.	NF225-CWU	3P	-	3P	2	U	е	41	61	125	162	300	-	35	120												
V-4S V-4SE	(*1)	NF400-CW/SW/SEW/HEW/REW NF630-CW/SW/SEW/HEW/REW		NV400-CW/SW/SEW/HEW/REW NV630-CW/SW/SEW/HEW	3P, 4P			j		97	191	233	300	-	44	194												
V-4U V-4UE	(*1) Adjusting unit V-AD3L is	NF400-UEW	3P	-	-	Fig.	•	h	76	194	288	330	397	20	44	234	M6 screw											
V-8S V-8SE	mounted on stationary type.	NF800-CEW/SDW/SEW/HEW/REW		NV800-SEW/HEW	ЗP	3 6			/0	97	191	233	300	_	70	243	or ø7	-										
V-4SUL V-6SUL		NF400-SWU/HWU NF630-SWU/HWU	3P 3P	-	3P	-		1			9/	97	91	9/	97	97	97 1	131	233	200	200	233	200	000	-	44	194 243	
V-05UL		INF030-5WU/HWU	JSP	-	-										70	243												

Notes

1 For the adjustable type, purchase the optional adjusting unit V-AD3S or V-AD3L.
*2 The dimensions of the adjustable type models provided with the adjusting unit V-AD3S or V-AD3L are shown.
*3 When using the operating handle for a plug-in type model with a frame size of 250A or below, specify so.
*4 The dimensions on the front connection type are shown. For the rear connection and plug-in types, separately consult us.
*5 The circuit breaker can be tripped by operating the trip button while the door is open. (The trip button position varies depending on the model.)
*6 The handle cannot be used when the circuit breaker is installed on IEC 35-mm rails.

Remarks: 1. The products whose model names contain E are designed for emergency stop. The delivery category is ●. That of V-05SVE is ●.

V-05SVE is 2. When the operating handle is fitted to NV, the test button cannot be pressed easily. If necessary, use a circuit breaker with TBL or TBM. When using an Earth Leakage Alarm Breaker, use the externally resetting type (ECA-SLT) or automatically resetting type (ARS).

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Measuring Display Unit Breakers

UL 489 Listed I Circuit Breakers C

Installation procedure For details, please refer to Operating Handle Installation Manual supplied with the product.

(1) Installation to a breaker Install the operating handle to the circuit breaker in accordance with the following procedure.



2 Installation of operating handle section

Drill a hole in the door according to the dimensional drawing for front plate drilling given on the previous page, and install the operating handle section in accordance with the following procedure.

- Tighten the operating handle section from the back of the front plate. Temporarily tighten the screws to center the section in the hole.
- Set the handle of the operating handle section to the OFF

state, tighten the front plate, and make sure that the handle can be smoothly turned to the ON and OFF positions.

Turn the handle to the right and left in the OFF state, and make sure that OFF is displayed. If OFF is not displayed, move the operating handle section up and down and to the right and left for adjustment. (Take care that the operating handle section is in parallel with the circuit breaker.) Then, open the front plate, and finally tighten the screws.

Door locking mechanism

The operating handle is provided with an interlock mechanism to prevent the door opening in the ON and TRIP positions. In the OFF position, the door can be opened. However, the door can be opened in the ON or TRIP position by pressing the release knob in the arrow direction with a tool (3 mm wide and 1.8 mm thick).



Operation locking mechanism **1** Operating handle section

Operation lock can be set only in the OFF Position. Up to three commercially available padlocks (A = 35 or 40 mm) can be fitted. Lockout hasps (scissors locks) can be used. When the operating handle section is locked with padlocks, also the door is locked.

2 Operating section

The operating section can be locked so that the circuit breaker will not be turned on carelessly when the inside of the panel is inspected with the panel door open. Fit a padlock through the hole in the operating section of the operating handle.

Adjusting unit

The height from the circuit breaker mounting surface to the panel door can be adjusted by fitting the optional adjusting unit V-AD3S or V-AD3L. Cut the shaft of the adjusting unit according to the height.



Note The adjusting unit is not applicable to 2-pole external type circuit breakers. If it is used on a 2-pole external type circuit breaker, the positions may not be correctly displayed.



Make adjustments with the adjusting unit as stated below.

①External dimension drawing 2 Calculation of shaft cutting allowance





Note The unit is applicable to operating handles for emergency stop (E)

Padlocks

The user must prepare padlocks.

The dimensions of the padlocks are the same as those shown on page 752.

How to order

Specify the model name of the operating handle. For adjustable type, place an order for the adjustment unit. (One lot includes 1 pc.) 250A frame or below: V-AD3S 400 to 800A frames: V-AD3L

Interpretation of model name

(1) For 800A frame or below

- $\begin{array}{c|c} \underline{S} & \underline{UL} & \underline{E} & \underline{2} \\ \hline 3) & 4) & 5) & 6) \end{array}$ _<u>1</u> 2) 1)
- V:
- Operating handle type name 1) 2) 1: Circuit breaker group (0.5, 1, 2, 4, 6 or 8)
- З)́ S Classification of circuit breaker (S, SV, H, U, UV)
- 4) UL: Blank---General product UL---UL 489 listed product
- 5) E: Blank---Standard E---For emergency stop
- 6) 2: Blank---3P or 4P 2---2P