Fuji Electric
Innovating Energy Technology

Rep No.C18009

November 12, 2018

Fuji Electric FA Components & Systems Co., Ltd.

To All Customers

Notification regarding Production Discontinuation of Multi-VCB Series High-Voltage Vacuum Circuit Breakers

We would like to thank you for your continued patronage of Fuji products.

We would like to notify the discontinuation of some of our products as described below.

Please review the following information and take appropriate actions.

Please inform all related sections of your company.

Product name	High-voltage Vacuum Circuit Breaker
Series name	Multi-VCB Series
Basic type	1) Fixed type HA08□-■●, HA12□-■● □: Installation method (B, C, P) ■: Operation method (A, B, C, D, H) ●: Tripping method (1, 2, 3, 4, 5) 2) Draw-out cradle type HA08A△-■●, HA12A△-■● △: Installation method (U, X, Y) ■: Operation method (A, B, C, D) ●: Tripping method (1, 2, 3, 4) ・Includes special application products.
Reason for termination	Discontinuation and streamlining of models to accompany the release of an enhanced lineup of products
Replacement models	For details, see Attachment 1 “Table of Corresponding New and Old Types”.
Date of production termination	March 31, 2019
Attachment	Attachment 1 “Table of Corresponding New and Old Types” Attachment 2 “List of Maintenance Parts” Attachment 3 “Table Describing Compatibility between New and Old Types”
Maintenance parts	The maintenance parts listed in Attachment 2 will be supported for 7 years.
Others	Refer to Attachment 3 to check for compatibility between new and old types.

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Attachment 1

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Table of Corresponding New and Old Types

*Vacuum valve low-surge products: Addition of “L” to end of product type

Draw-out cradle type	Rated breaking	Installation method	Operation method	Tripping method	Current product	New type
Fixed type	8kA	Board type (B)	Manual (H)	Shunt trip 100/110 V DC	HA08B-H1	HA08AB-H1
				Shunt trip 200/220 V DC	HA08B-H2	HA08AB-H2
				Shunt trip 48 V DC	HA08B-H3	HA08AB-H3
				Shunt trip 21/24 V DC	HA08B-H4	HA08AB-H4
				Current trip 3 A × 2 units	HA08B-H5	HA08AB-H5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA08C-H1	HA08AC-H1
				Shunt trip 200/220 V DC	HA08C-H2	HA08AC-H2
				Shunt trip 48 V DC	HA08C-H3	HA08AC-H3
				Shunt trip 21/24 V DC	HA08C-H4	HA08AC-H4
				Current trip 3 A × 2 units	HA08C-H5	HA08AC-H5
		Portable type (P)		Shunt trip 100/110 V DC	HA08P-H1	HA08AP-H1
				Shunt trip 200/220 V DC	HA08P-H2	HA08AP-H2
				Shunt trip 48 V DC	HA08P-H3	HA08AP-H3
				Shunt trip 21/24 V DC	HA08P-H4	HA08AP-H4
				Current trip 3 A × 2 units	HA08P-H5	HA08AP-H5
		Board type (B)	Motor operated (A) 100/110 V AC/DC	Shunt trip 100/110 V DC	HA08B-A1	HA08AB-A1
				Shunt trip 200/220 V DC	HA08B-A2	HA08AB-A2
				Shunt trip 48 V DC	HA08B-A3	HA08AB-A3
				Shunt trip 21/24 V DC	HA08B-A4	HA08AB-A4
				Current trip 3 A × 2 units	HA08B-A5	HA08AB-A5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA08C-A1	HA08AC-A1
				Shunt trip 200/220 V DC	HA08C-A2	HA08AC-A2
				Shunt trip 48 V DC	HA08C-A3	HA08AC-A3
				Shunt trip 21/24 V DC	HA08C-A4	HA08AC-A4
				Current trip 3 A × 2 units	HA08C-A5	HA08AC-A5
		Portable type (P)		Shunt trip 100/110 V DC	HA08P-A1	HA08AP-A1
				Shunt trip 200/220 V DC	HA08P-A2	HA08AP-A2
				Shunt trip 48 V DC	HA08P-A3	HA08AP-A3
				Shunt trip 21/24 V DC	HA08P-A4	HA08AP-A4
				Current trip 3 A × 2 units	HA08P-A5	HA08AP-A5
		Board type (B)	Motor operated (B) 200/220 V AC/DC	Shunt trip 100/110 V DC	HA08B-B1	HA08AB-B1
				Shunt trip 200/220 V DC	HA08B-B2	HA08AB-B2
				Shunt trip 48 V DC	HA08B-B3	HA08AB-B3
				Shunt trip 21/24 V DC	HA08B-B4	HA08AB-B4
				Current trip 3 A × 2 units	HA08B-B5	HA08AB-B5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA08C-B1	HA08AC-B1
				Shunt trip 200/220 V DC	HA08C-B2	HA08AC-B2
				Shunt trip 48 V DC	HA08C-B3	HA08AC-B3
				Shunt trip 21/24 V DC	HA08C-B4	HA08AC-B4
				Current trip 3 A × 2 units	HA08C-B5	HA08AC-B5
		Portable type (P)		Shunt trip 100/110 V DC	HA08P-B1	HA08AP-B1
				Shunt trip 200/220 V DC	HA08P-B2	HA08AP-B2
				Shunt trip 48 V DC	HA08P-B3	HA08AP-B3
				Shunt trip 21/24 V DC	HA08P-B4	HA08AP-B4
				Current trip 3 A × 2 units	HA08P-B5	HA08AP-B5
		Board type (B)	Motor operated (C) 48 V DC	Shunt trip 100/110 V DC	HA08B-C1	HA08AB-C1
				Shunt trip 200/220 V DC	HA08B-C2	HA08AB-C2
				Shunt trip 48 V DC	HA08B-C3	HA08AB-C3
				Shunt trip 21/24 V DC	HA08B-C4	HA08AB-C4
				Current trip 3 A × 2 units	HA08B-C5	HA08AB-C5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA08C-C1	HA08AC-C1
				Shunt trip 200/220 V DC	HA08C-C2	HA08AC-C2
				Shunt trip 48 V DC	HA08C-C3	HA08AC-C3
				Shunt trip 21/24 V DC	HA08C-C4	HA08AC-C4
				Current trip 3 A × 2 units	HA08C-C5	HA08AC-C5
		Portable type (P)		Shunt trip 100/110 V DC	HA08P-C1	HA08AP-C1
				Shunt trip 200/220 V DC	HA08P-C2	HA08AP-C2
				Shunt trip 48 V DC	HA08P-C3	HA08AP-C3
				Shunt trip 21/24 V DC	HA08P-C4	HA08AP-C4
				Current trip 3 A × 2 units	HA08P-C5	HA08AP-C5
		Board type (B)		Shunt trip 100/110 V DC	HA08B-D1	HA08AB-D1
				Shunt trip 200/220 V DC	HA08B-D2	HA08AB-D2
				Shunt trip 48 V DC	HA08B-D3	HA08AB-D3
				Shunt trip 21/24 V DC	HA08B-D4	HA08AB-D4
				Current trip 3 A × 2 units	HA08B-D5	HA08AB-D5

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Table of Corresponding New and Old Types

*Vacuum valve low-surge products: Addition of “L” to end of product type

Draw-out cradle type	Rated breaking	Installation method	Operation method	Tripping method	Current product	New type
		Cubicle type (C)	Motor operated (D) 21/24 V DC	Shunt trip 100/110 V DC	HA08C-D1	HA08AC-D1
				Shunt trip 200/220 V DC	HA08C-D2	HA08AC-D2
				Shunt trip 48 V DC	HA08C-D3	HA08AC-D3
				Shunt trip 21/24 V DC	HA08C-D4	HA08AC-D4
				Current trip 3 A × 2 units	HA08C-D5	HA08AC-D5
		Portable type (P)		Shunt trip 100/110 V DC	HA08P-D1	HA08AP-D1
				Shunt trip 200/220 V DC	HA08P-D2	HA08AP-D2
				Shunt trip 48 V DC	HA08P-D3	HA08AP-D3
				Shunt trip 21/24 V DC	HA08P-D4	HA08AP-D4
				Current trip 3 A × 2 units	HA08P-D5	HA08AP-D5
	12 kA	Board type (B)	Manual (H)	Shunt trip 100/110 V DC	HA12B-H1	HA12AB-H1
				Shunt trip 200/220 V DC	HA12B-H2	HA12AB-H2
				Shunt trip 48 V DC	HA12B-H3	HA12AB-H3
				Shunt trip 21/24 V DC	HA12B-H4	HA12AB-H4
				Current trip 3 A × 2 units	HA12B-H5	HA12AB-H5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA12C-H1	HA12AC-H1
				Shunt trip 200/220 V DC	HA12C-H2	HA12AC-H2
				Shunt trip 48 V DC	HA12C-H3	HA12AC-H3
				Shunt trip 21/24 V DC	HA12C-H4	HA12AC-H4
				Current trip 3 A × 2 units	HA12C-H5	HA12AC-H5
		Portable type (P)		Shunt trip 100/110 V DC	HA12P-H1	HA12AP-H1
				Shunt trip 200/220 V DC	HA12P-H2	HA12AP-H2
				Shunt trip 48 V DC	HA12P-H3	HA12AP-H3
				Shunt trip 21/24 V DC	HA12P-H4	HA12AP-H4
				Current trip 3 A × 2 units	HA12P-H5	HA12AP-H5
		Board type (B)	Motor operated (A) 100/110 V AC/DC	Shunt trip 100/110 V DC	HA12B-A1	HA12AB-A1
				Shunt trip 200/220 V DC	HA12B-A2	HA12AB-A2
				Shunt trip 48 V DC	HA12B-A3	HA12AB-A3
				Shunt trip 21/24 V DC	HA12B-A4	HA12AB-A4
				Current trip 3 A × 2 units	HA12B-A5	HA12AB-A5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA12C-A1	HA12AC-A1
				Shunt trip 200/220 V DC	HA12C-A2	HA12AC-A2
				Shunt trip 48 V DC	HA12C-A3	HA12AC-A3
				Shunt trip 21/24 V DC	HA12C-A4	HA12AC-A4
				Current trip 3 A × 2 units	HA12C-A5	HA12AC-A5
		Portable type (P)		Shunt trip 100/110 V DC	HA12P-A1	HA12AP-A1
				Shunt trip 200/220 V DC	HA12P-A2	HA12AP-A2
				Shunt trip 48 V DC	HA12P-A3	HA12AP-A3
				Shunt trip 21/24 V DC	HA12P-A4	HA12AP-A4
				Current trip 3 A × 2 units	HA12P-A5	HA12AP-A5
		Board type (B)	Motor operated (B) 200/220 V AC/DC	Shunt trip 100/110 V DC	HA12B-B1	HA12AB-B1
				Shunt trip 200/220 V DC	HA12B-B2	HA12AB-B2
				Shunt trip 48 V DC	HA12B-B3	HA12AB-B3
				Shunt trip 21/24 V DC	HA12B-B4	HA12AB-B4
				Current trip 3 A × 2 units	HA12B-B5	HA12AB-B5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA12C-B1	HA12AC-B1
				Shunt trip 200/220 V DC	HA12C-B2	HA12AC-B2
				Shunt trip 48 V DC	HA12C-B3	HA12AC-B3
				Shunt trip 21/24 V DC	HA12C-B4	HA12AC-B4
				Current trip 3 A × 2 units	HA12C-B5	HA12AC-B5
		Portable type (P)		Shunt trip 100/110 V DC	HA12P-B1	HA12AP-B1
				Shunt trip 200/220 V DC	HA12P-B2	HA12AP-B2
				Shunt trip 48 V DC	HA12P-B3	HA12AP-B3
				Shunt trip 21/24 V DC	HA12P-B4	HA12AP-B4
				Current trip 3 A × 2 units	HA12P-B5	HA12AP-B5
		Board type (B)	Motor operated (C) 48 V DC	Shunt trip 100/110 V DC	HA12B-C1	HA12AB-C1
				Shunt trip 200/220 V DC	HA12B-C2	HA12AB-C2
				Shunt trip 48 V DC	HA12B-C3	HA12AB-C3
				Shunt trip 21/24 V DC	HA12B-C4	HA12AB-C4
				Current trip 3 A × 2 units	HA12B-C5	HA12AB-C5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA12C-C1	HA12AC-C1
				Shunt trip 200/220 V DC	HA12C-C2	HA12AC-C2
				Shunt trip 48 V DC	HA12C-C3	HA12AC-C3
				Shunt trip 21/24 V DC	HA12C-C4	HA12AC-C4
				Current trip 3 A × 2 units	HA12C-C5	HA12AC-C5

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*Vacuum valve low-surge products: Addition of “L” to end of product type

Draw-out cradle type	Rated breaking	Installation method	Operation method	Tripping method	Current product	New type
		Portable type (P)		Shunt trip 100/110 V DC	HA12P-C1	HA12AP-C1
				Shunt trip 200/220 V DC	HA12P-C2	HA12AP-C2
				Shunt trip 48 V DC	HA12P-C3	HA12AP-C3
				Shunt trip 21/24 V DC	HA12P-C4	HA12AP-C4
				Current trip 3 A × 2 units	HA12P-C5	HA12AP-C5
		Board type (B)	Motor operated (D) 21/24 V DC	Shunt trip 100/110 V DC	HA12B-D1	HA12AB-D1
				Shunt trip 200/220 V DC	HA12B-D2	HA12AB-D2
				Shunt trip 48 V DC	HA12B-D3	HA12AB-D3
				Shunt trip 21/24 V DC	HA12B-D4	HA12AB-D4
				Current trip 3 A × 2 units	HA12B-D5	HA12AB-D5
		Cubicle type (C)		Shunt trip 100/110 V DC	HA12C-D1	HA12AC-D1
				Shunt trip 200/220 V DC	HA12C-D2	HA12AC-D2
				Shunt trip 48 V DC	HA12C-D3	HA12AC-D3
				Shunt trip 21/24 V DC	HA12C-D4	HA12AC-D4
				Current trip 3 A × 2 units	HA12C-D5	HA12AC-D5
		Portable type (P)		Shunt trip 100/110 V DC	HA12P-D1	HA12AP-D1
				Shunt trip 200/220 V DC	HA12P-D2	HA12AP-D2
				Shunt trip 48 V DC	HA12P-D3	HA12AP-D3
				Shunt trip 21/24 V DC	HA12P-D4	HA12AP-D4
				Current trip 3 A × 2 units	HA12P-D5	HA12AP-D5
Draw-out cradle type	8 kA	CW class (X)	Motor operated (A) 100/110 V AC/DC	Shunt trip 100/110 V DC	HA08AX-A1	HA08DX-A1
				Shunt trip 200/220 V DC	HA08AX-A2	HA08DX-A2
				Shunt trip 48 V DC	HA08AX-A3	HA08DX-A3
				Shunt trip 21/24 V DC	HA08AX-A4	HA08DX-A4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA08AY-A1	HA08DY-A1
				Shunt trip 200/220 V DC	HA08AY-A2	HA08DY-A2
				Shunt trip 48 V DC	HA08AY-A3	HA08DY-A3
				Shunt trip 21/24 V DC	HA08AY-A4	HA08DY-A4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA08AU-A1	HA08DU-A1
				Shunt trip 200/220 V DC	HA08AU-A2	HA08DU-A2
				Shunt trip 48 V DC	HA08AU-A3	HA08DU-A3
				Shunt trip 21/24 V DC	HA08AU-A4	HA08DU-A4
		CW class (X)	Motor operated (B) 200/220 V AC/DC	Shunt trip 100/110 V DC	HA08AX-B1	HA08DX-B1
				Shunt trip 200/220 V DC	HA08AX-B2	HA08DX-B2
				Shunt trip 48 V DC	HA08AX-B3	HA08DX-B3
				Shunt trip 21/24 V DC	HA08AX-B4	HA08DX-B4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA08AY-B1	HA08DY-B1
				Shunt trip 200/220 V DC	HA08AY-B2	HA08DY-B2
				Shunt trip 48 V DC	HA08AY-B3	HA08DY-B3
				Shunt trip 21/24 V DC	HA08AY-B4	HA08DY-B4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA08AU-B1	HA08DU-B1
				Shunt trip 200/220 V DC	HA08AU-B2	HA08DU-B2
				Shunt trip 48 V DC	HA08AU-B3	HA08DU-B3
				Shunt trip 21/24 V DC	HA08AU-B4	HA08DU-B4
		CW class (X)	Motor operated (C) 48 V DC	Shunt trip 100/110 V DC	HA08AX-C1	HA08DX-C1
				Shunt trip 200/220 V DC	HA08AX-C2	HA08DX-C2
				Shunt trip 48 V DC	HA08AX-C3	HA08DX-C3
				Shunt trip 21/24 V DC	HA08AX-C4	HA08DX-C4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA08AY-C1	HA08DY-C1
				Shunt trip 200/220 V DC	HA08AY-C2	HA08DY-C2
				Shunt trip 48 V DC	HA08AY-C3	HA08DY-C3
				Shunt trip 21/24 V DC	HA08AY-C4	HA08DY-C4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA08AU-C1	HA08DU-C1
				Shunt trip 200/220 V DC	HA08AU-C2	HA08DU-C2
				Shunt trip 48 V DC	HA08AU-C3	HA08DU-C3
				Shunt trip 21/24 V DC	HA08AU-C4	HA08DU-C4
		CW class (X)	Motor operated (D) 21/24 V DC	Shunt trip 100/110 V DC	HA08AX-D1	HA08DX-D1
				Shunt trip 200/220 V DC	HA08AX-D2	HA08DX-D2
				Shunt trip 48 V DC	HA08AX-D3	HA08DX-D3
				Shunt trip 21/24 V DC	HA08AX-D4	HA08DX-D4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA08AY-D1	HA08DY-D1
				Shunt trip 200/220 V DC	HA08AY-D2	HA08DY-D2
				Shunt trip 48 V DC	HA08AY-D3	HA08DY-D3
				Shunt trip 21/24 V DC	HA08AY-D4	HA08DY-D4
				Shunt trip 100/110 V DC	HA08AU-D1	HA08DU-D1

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Table of Corresponding New and Old Types

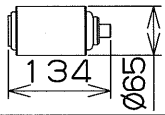
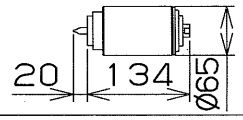
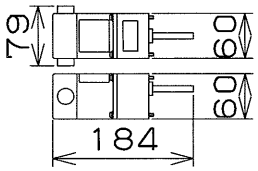
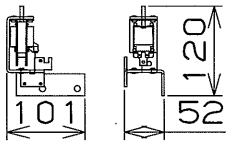
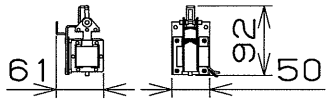
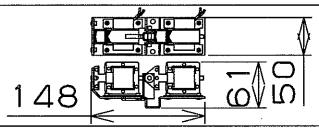
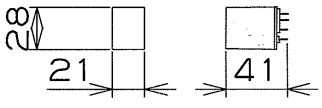
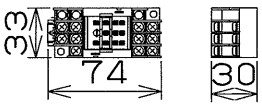
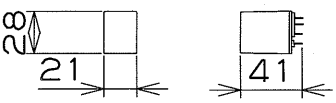
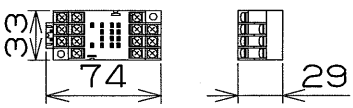
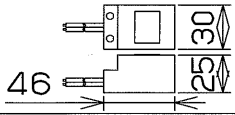
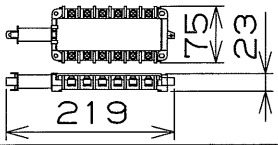
*Vacuum valve low-surge products: Addition of “L” to end of product type

Draw-out cradle type	Rated breaking	Installation method	Operation method	Tripping method	Current product	New type
		For thin-type switchboard (U)		Shunt trip 200/220 V DC	HA08AU-D2	HA08DU-D2
				Shunt trip 48 V DC	HA08AU-D3	HA08DU-D3
				Shunt trip 21/24 V DC	HA08AU-D4	HA08DU-D4
	12 kA	CW class (X)	Motor operated (A) 100/110 V AC/DC	Shunt trip 100/110 V DC	HA12AX-A1	HA12DX-A1
				Shunt trip 200/220 V DC	HA12AX-A2	HA12DX-A2
				Shunt trip 48 V DC	HA12AX-A3	HA12DX-A3
				Shunt trip 21/24 V DC	HA12AX-A4	HA12DX-A4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA12AY-A1	HA12DY-A1
				Shunt trip 200/220 V DC	HA12AY-A2	HA12DY-A2
				Shunt trip 48 V DC	HA12AY-A3	HA12DY-A3
				Shunt trip 21/24 V DC	HA12AY-A4	HA12DY-A4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA12AU-A1	HA12DU-A1
				Shunt trip 200/220 V DC	HA12AU-A2	HA12DU-A2
				Shunt trip 48 V DC	HA12AU-A3	HA12DU-A3
				Shunt trip 21/24 V DC	HA12AU-A4	HA12DU-A4
		CW class (X)	Motor operated (B) 200/220 V AC/DC	Shunt trip 100/110 V DC	HA12AX-B1	HA12DX-B1
				Shunt trip 200/220 V DC	HA12AX-B2	HA12DX-B2
				Shunt trip 48 V DC	HA12AX-B3	HA12DX-B3
				Shunt trip 21/24 V DC	HA12AX-B4	HA12DX-B4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA12AY-B1	HA12DY-B1
				Shunt trip 200/220 V DC	HA12AY-B2	HA12DY-B2
				Shunt trip 48 V DC	HA12AY-B3	HA12DY-B3
				Shunt trip 21/24 V DC	HA12AY-B4	HA12DY-B4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA12AU-B1	HA12DU-B1
				Shunt trip 200/220 V DC	HA12AU-B2	HA12DU-B2
				Shunt trip 48 V DC	HA12AU-B3	HA12DU-B3
				Shunt trip 21/24 V DC	HA12AU-B4	HA12DU-B4
		CW class (X)	Motor operated (C) 48 V DC	Shunt trip 100/110 V DC	HA12AX-C1	HA12DX-C1
				Shunt trip 200/220 V DC	HA12AX-C2	HA12DX-C2
				Shunt trip 48 V DC	HA12AX-C3	HA12DX-C3
				Shunt trip 21/24 V DC	HA12AX-C4	HA12DX-C4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA12AY-C1	HA12DY-C1
				Shunt trip 200/220 V DC	HA12AY-C2	HA12DY-C2
				Shunt trip 48 V DC	HA12AY-C3	HA12DY-C3
				Shunt trip 21/24 V DC	HA12AY-C4	HA12DY-C4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA12AU-C1	HA12DU-C1
				Shunt trip 200/220 V DC	HA12AU-C2	HA12DU-C2
				Shunt trip 48 V DC	HA12AU-C3	HA12DU-C3
				Shunt trip 21/24 V DC	HA12AU-C4	HA12DU-C4
		CW class (X)	Motor operated (D) 21/24 V DC	Shunt trip 100/110 V DC	HA12AX-D1	HA12DX-D1
				Shunt trip 200/220 V DC	HA12AX-D2	HA12DX-D2
				Shunt trip 48 V DC	HA12AX-D3	HA12DX-D3
				Shunt trip 21/24 V DC	HA12AX-D4	HA12DX-D4
		MW, PW class (Y)		Shunt trip 100/110 V DC	HA12AY-D1	HA12DY-D1
				Shunt trip 200/220 V DC	HA12AY-D2	HA12DY-D2
				Shunt trip 48 V DC	HA12AY-D3	HA12DY-D3
				Shunt trip 21/24 V DC	HA12AY-D4	HA12DY-D4
		For thin-type switchboard (U)		Shunt trip 100/110 V DC	HA12AU-D1	HA12DU-D1
				Shunt trip 200/220 V DC	HA12AU-D2	HA12DU-D2
				Shunt trip 48 V DC	HA12AU-D3	HA12DU-D3
				Shunt trip 21/24 V DC	HA12AU-D4	HA12DU-D4

*Including special application products.

MULTI. VCB SPARE PARTS LIST

HA08B, C, P-□□, HA12B, C, P-□□ (FIXED TYPE)

ITEM NO.	NAME OF PART		OUTLINE	DRW. NO. OR TYPE	Q'TY /UNIT	REMARKS
1	VACUUM INTERRUPTER ※1	STANDARD TYPE		FA-A53	3	
		LOW LEVEL SURGE TYPE		FA-LA12	3	
2	MOTOR			GR-05SGN	1	AC/DC100/110V AC/DC200/220V DC48V DC21/24V (FIN85 23 47)
3	CLOSING SOLENOID			F867 33 20 (4)	1	AC/DC100/110V AC/DC200/220V DC48V
				F867 33 21 (4)	1	DC21/24V
4	OPENING SOLENOID ※2	SHUNT RELEASE		F867 30 86 (4)	1	DC100/110V DC200/220V DC48V, DC21/24V
		CURRENT RELEASE		F867 30 87 (4)	1	
5	52X	CONTROL RELAY		HH54PW-T	1	DC100V DC48V DC21/24V
		SOCKET		TP514X2	1	
6	52Z	CONTROL RELAY		HH53P	1	DC100V DC48V DC21/24V
		SOCKET		TP511X2	1	
7	RECTIFIER			S1-1ZL	1	F887 31 48 (5)
8	AUXILIARY SWITCH			F866 30 25 (4)	※3	

※1:SELECT VACUUM INTERRUPTER EITHER STANDARD OR LOW SURGE TYPE.
※2:SELECT OPENING SOLENOID EITHER SHUNT RELEASE OR CURRENT RELEASE ACCORDING TO RELEASE SYSTEM.
※3:SELECT Q'TY OF AUXILIARY SWITCH ACCORDING TO NO. OF AUXILIARY SWITCHES.
IN CASE OF NO. OF AUXILIARY SWITCHES IS 2N. O. +2N. C., 1PIECE/UNIT.
IN CASE OF NO. OF AUXILIARY SWITCHES IS 5N. O. +5N. C., 2PIECES/UNIT.

	DATE	NAME	APPROVED
DRAWN	2018-11-29	H. NOJIRI	T. Okazaki
CHECKED			

FIN857957
FIN858442
FIN8570432

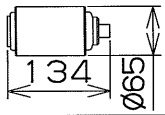
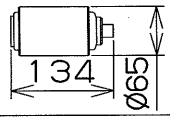
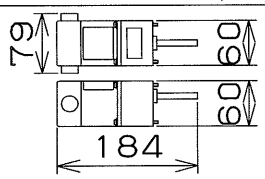
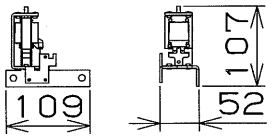
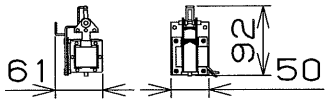
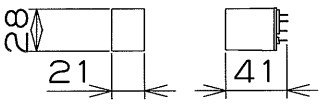
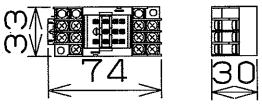
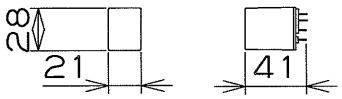
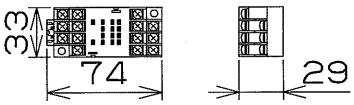
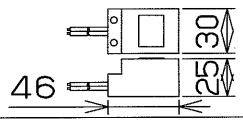
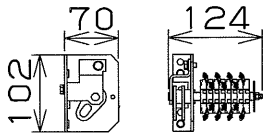
Fuji Electric FA Components & Systems Co., Ltd.

DWG. NO. FIN85 70 473 1/2

REVISIONS

MULTI. VCB SPARE PARTS LIST

HA08AX, AU, AY-□□, HA12AX, AU, AY-□□ (DRAW-OUT TYPE)

ITEM NO.	NAME OF PART		OUTLINE	DRW. NO. OR TYPE	Q'TY /UNIT	REMARKS
1	VACUUM INTERRUPTER ※1	STANDARD TYPE		FA-A53	3	
		LOW LEVEL SURGE TYPE		FA-L13	3	
2	MOTOR			GR-05SGN	1	AC/DC100/110V AC/DC200/220V DC48V DC21/24V (FIN85 23 47)
3	CLOSING SOLENOID			F867 33 95 (4)	1	AC/DC100/110V AC/DC200/220V DC48V
				F867 33 96 (4)	1	DC21/24V
4	OPENING SOLENOID			F867 30 86 (4)	1	DC100/110V DC200/220V DC48V, DC21/24V
5	52X	CONTROL RELAY		HH54PW-T	1	DC100V DC48V DC21/24V
		SOCKET		TP514X2	1	
6	52Z	CONTROL RELAY		HH53P	1	DC100V DC48V DC21/24V
		SOCKET		TP511X2	1	
7	RECTIFIER			S1-1ZL	1	F867 34 62 (5)
8	AUXILIARY SWITCH			F867 33 89 (3)	1	

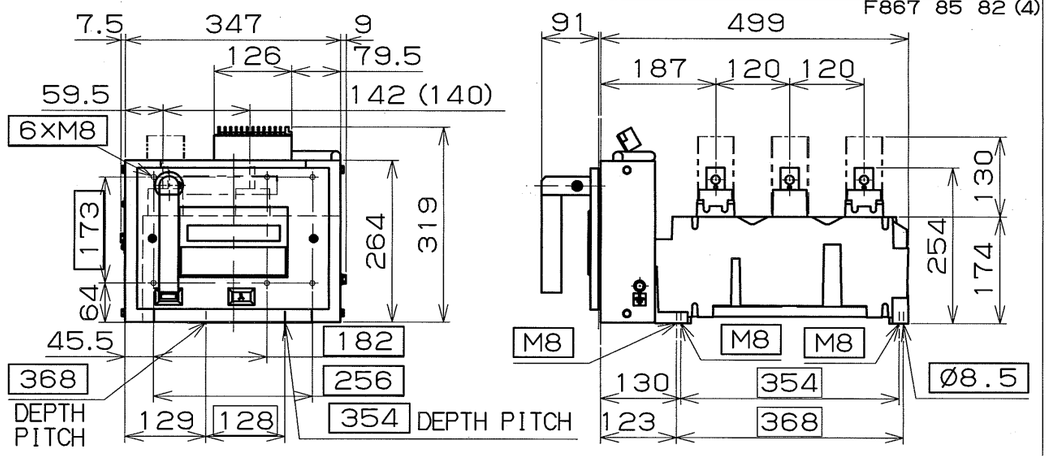
※1:SELECT VACUUM INTERRUPTER EITHER STANDARD OR LOW SURGE TYPE.

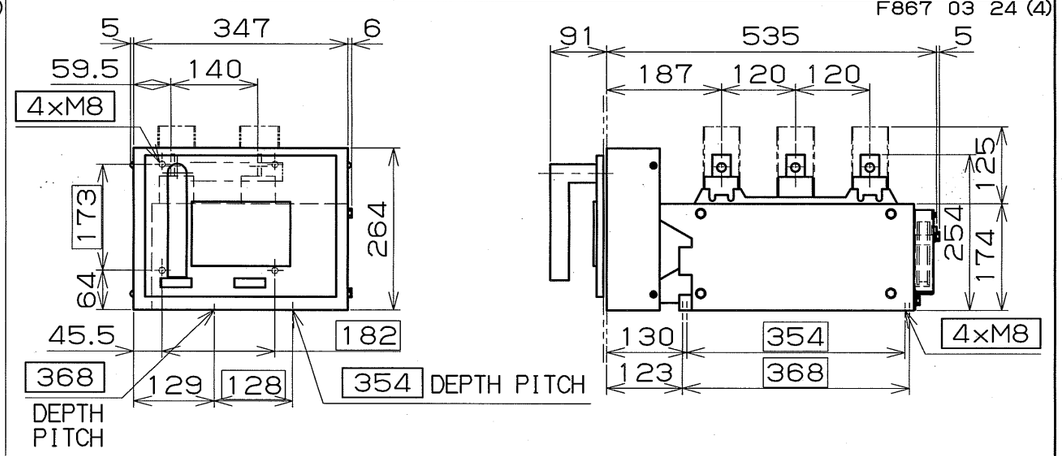
	DATE	NAME	APPROVED	
DRAWN	2018-11-29	H. NOJIRI	T. Okazaki	FIN857957 FIN858442 FIN8570432
CHECKED				
REVISIONS				

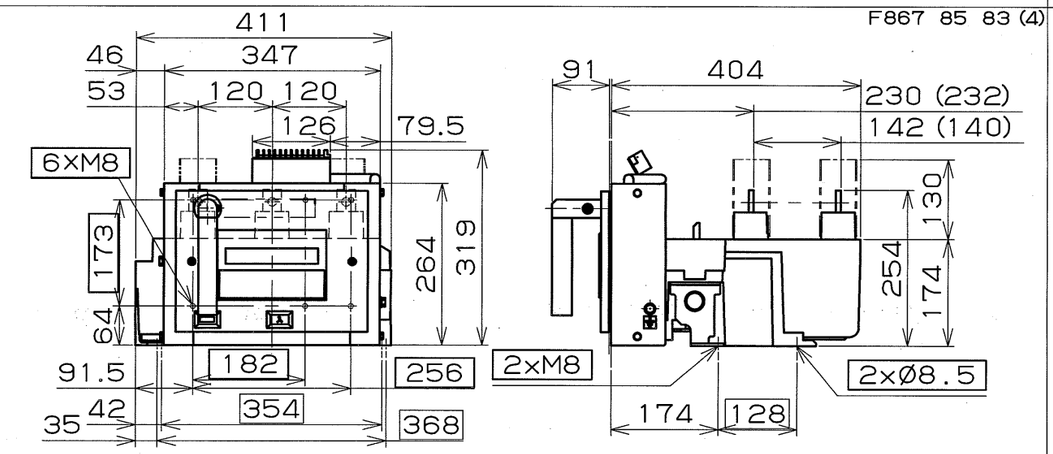
Fuji Electric FA Components & Systems Co, Ltd.

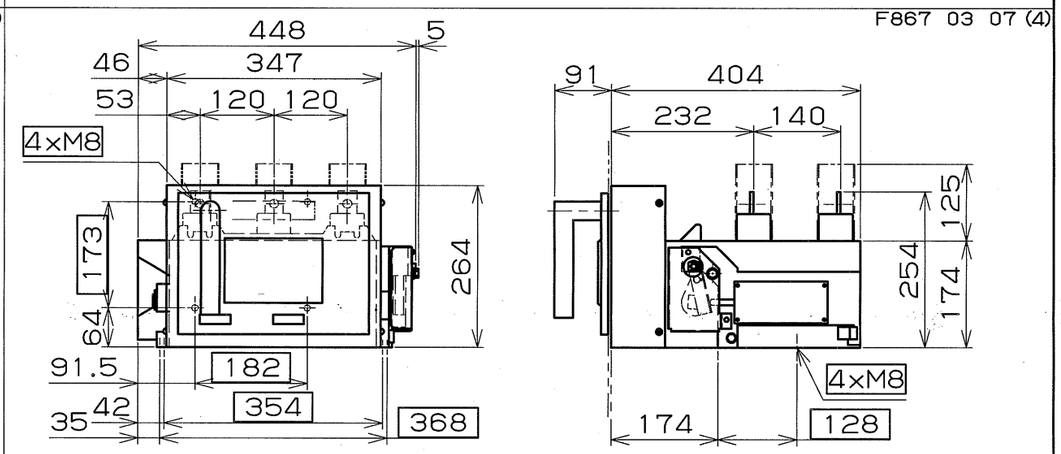
DWG. NO. FIN85 70 473 2/2

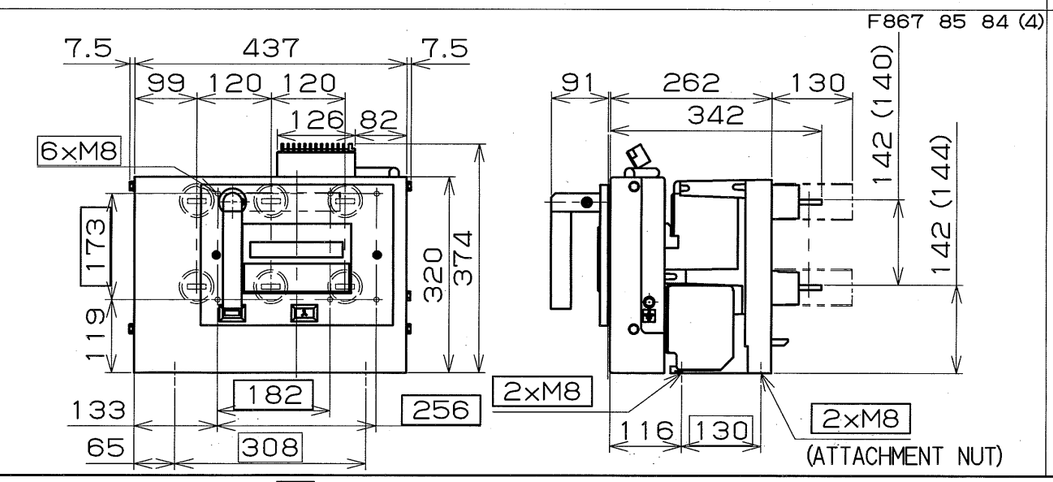
INSTALLATION TYPE	MOUNTING COMPATIBILITY	NEW TYPE : HA08/12A□-H	OLD TYPE : HA08/12□-H
B BOARD TYPE	COMPATIBLE	F867 85 82 (4)	F867 03 24 (4)
C CUBICLE TYPE	COMPATIBLE	F867 85 83 (4)	F867 03 07 (4)
P PORTABLE TYPE	COMPATIBLE	F867 85 84 (4)	F867 03 09 (4)

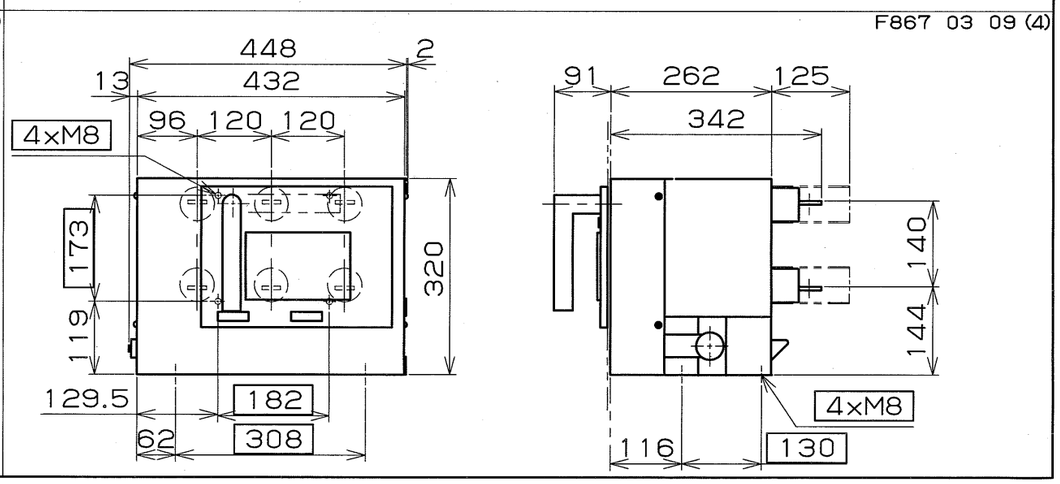












REMARKS) DIMENSIONS SHOWED □ IS MOUNTING HOLE PITCH. DIMENSIONS SHOWED ( ) IS APLLIED TO 12.5kA TYPE.

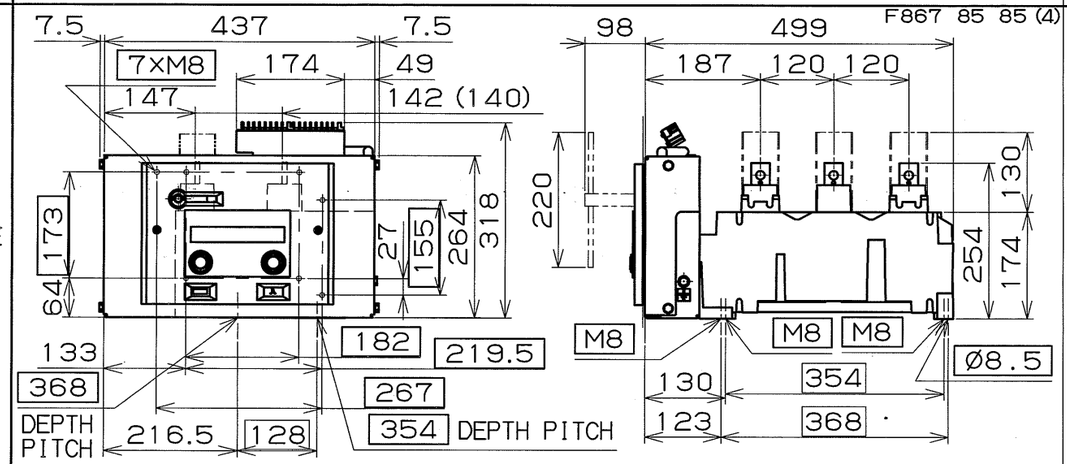
REVISIONS		DATE	NAME	APPROVED	SCALE	NTS	TITLE	COMPARISON OF NEW AND OLD TYPE MULTI VCB FIXED TYPE MANUAL-DRIVEN STORED ENERGY TYPE	DWG. CODE	1/3
	DRAWN	2018-11-29	H. Nojiri	T. Okazaki						
	CHECKED								DRAWING NO.	FIN 85 70 472

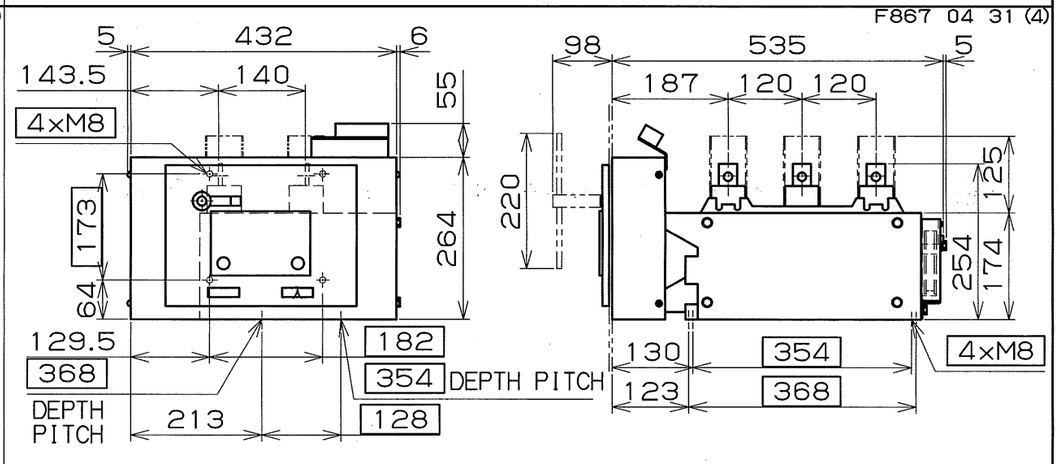
Ref. FIN 85 70 431

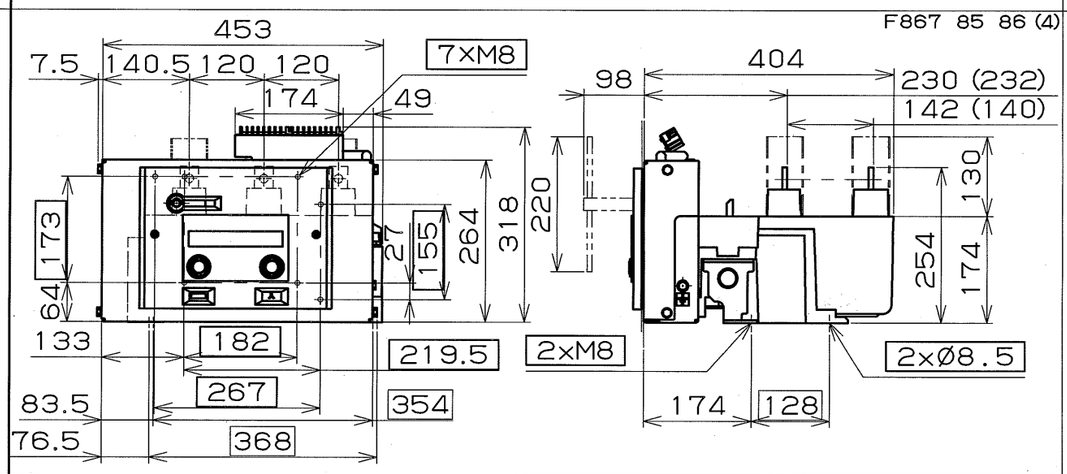
Fuji Electric FA Components & Systems Co., Ltd.

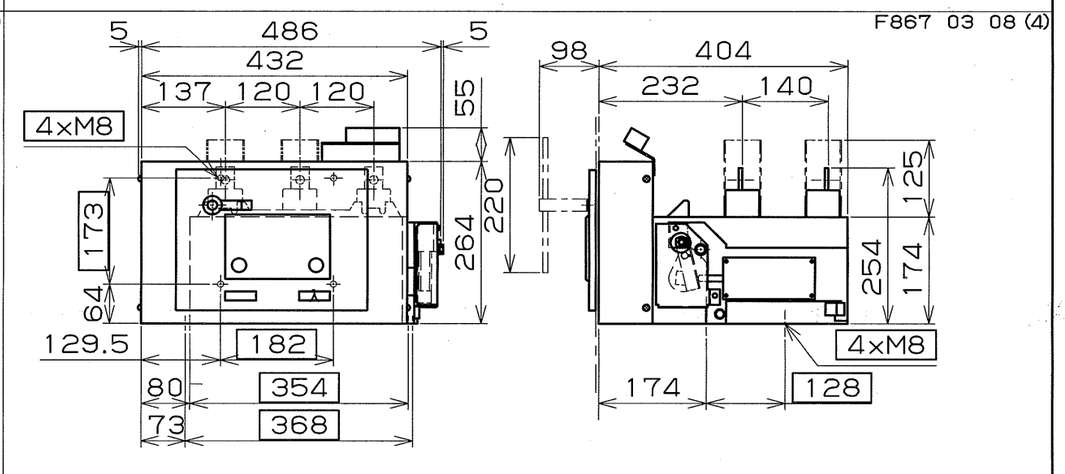
FI-3E

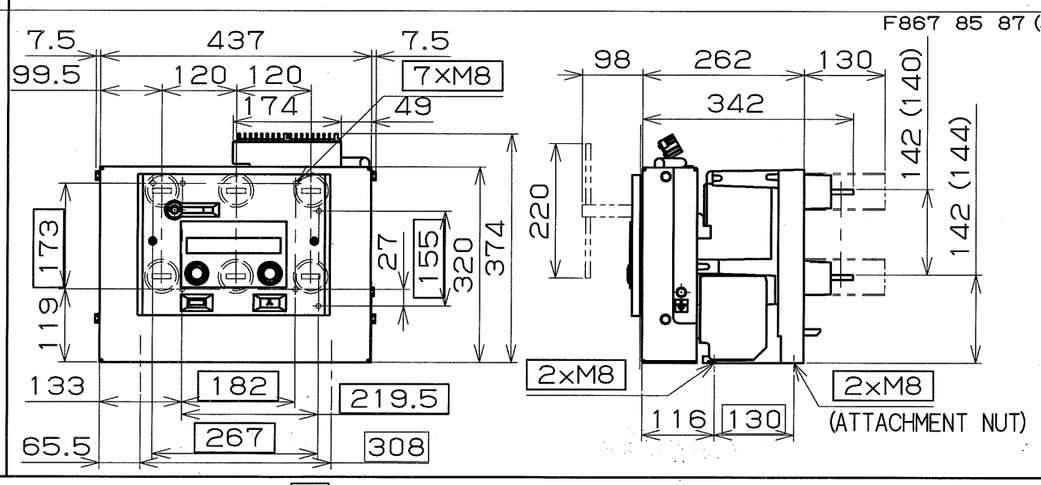
INSTALLATION TYPE	MOUNTING COMPATIBILITY	NEW TYPE : HA08/12A□-A, B, C, D	OLD TYPE : HA08/12□-A, B, C, D
B BOARD TYPE	COMPATIBLE	F867 85 85 (4)	F867 04 31 (4)
C CUBICLE TYPE	COMPATIBLE	F867 85 86 (4)	F867 03 08 (4)
P PORTABLE TYPE	COMPATIBLE	F867 85 87 (4)	F867 84 44 (4)

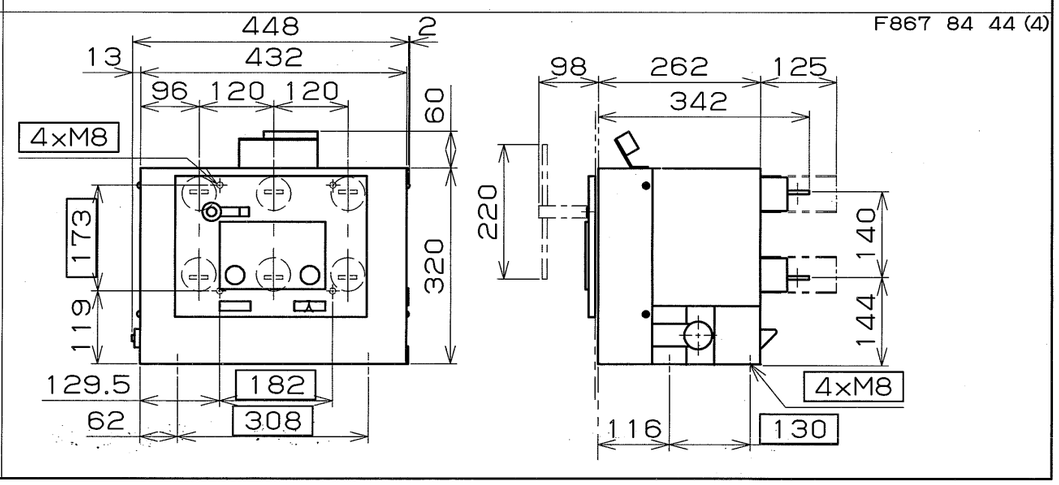










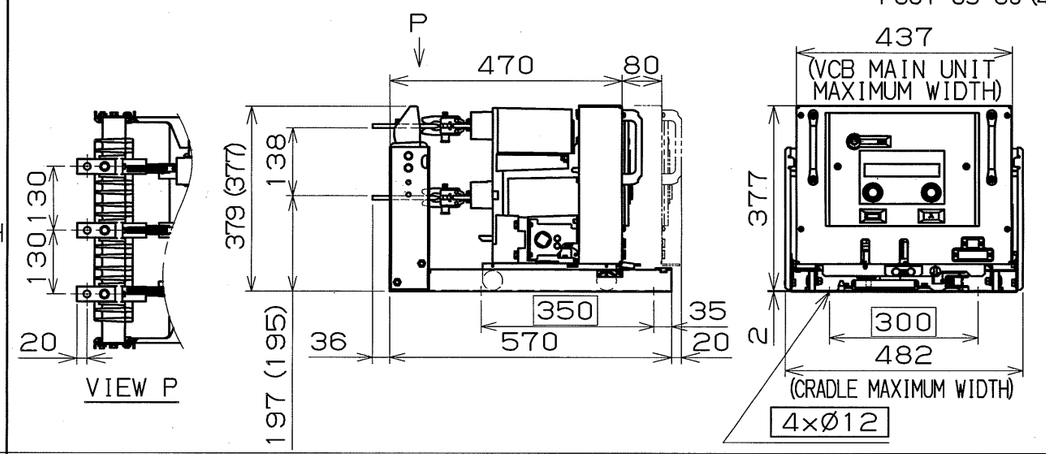


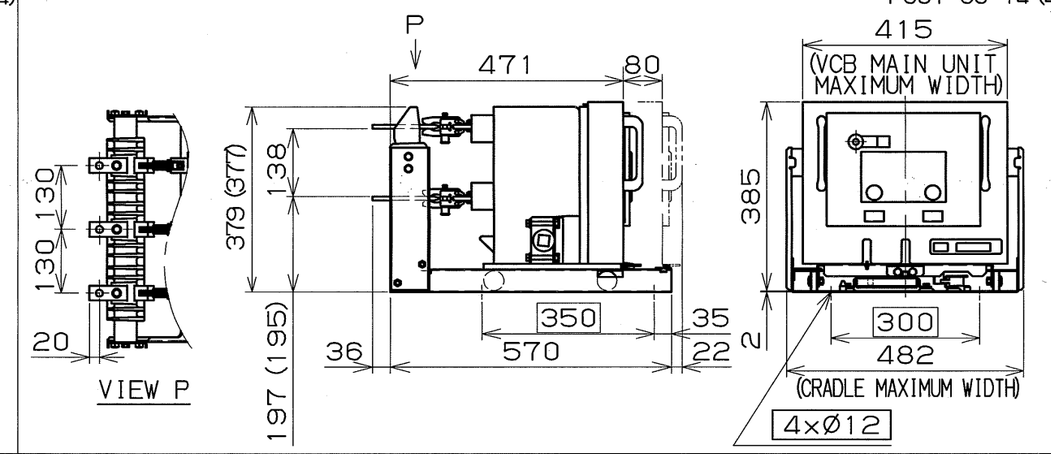
REMARKS) DIMENSIONS SHOWED □ IS MOUNTING HOLE PITCH. DIMENSIONS SHOWED ( ) IS APLLIED TO 12.5kA TYPE.

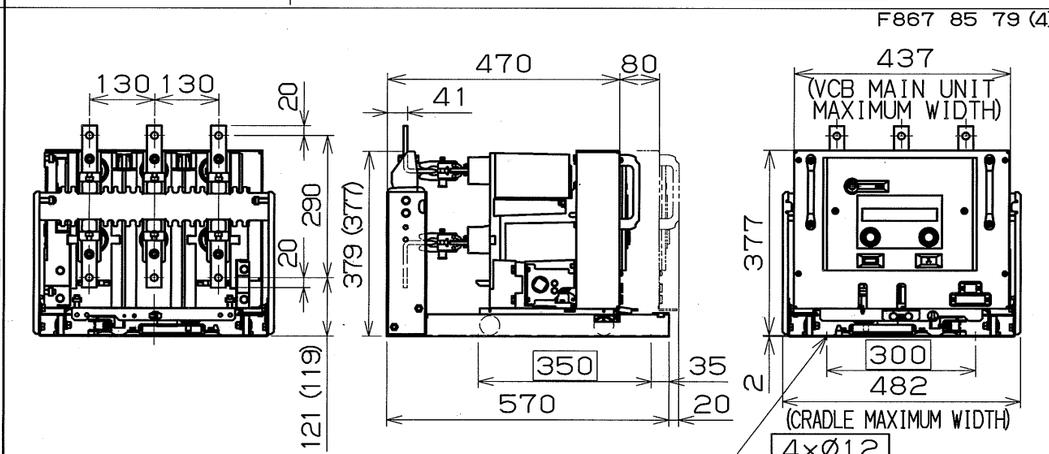
REVISIONS		DATE	NAME	APPROVED	SCALE	TITLE	DWG. CODE	
	DRAWN	2018-11-29	H. Nojiri	T. Okazaki	NTS	COMPARISON OF NEW AND OLD TYPE MULTI VCB FIXED TYPE MOTOR-DRIVEN STORED ENERGY TYPE		2/3
	CHECKED						DRAWING NO.	FIN 85 70 472
Ref. FIN 85 70 431		Fuji Electric FA Components & Systems Co., Ltd.						

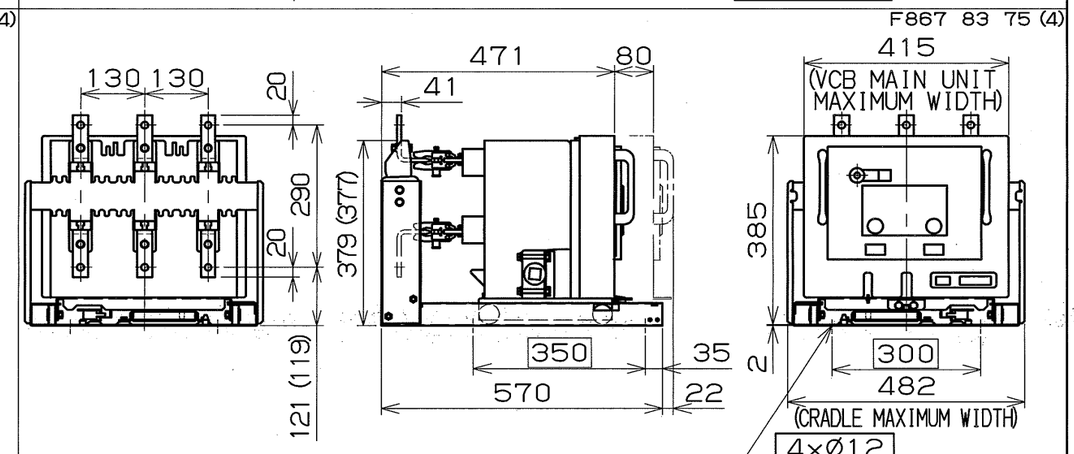
FI-3E

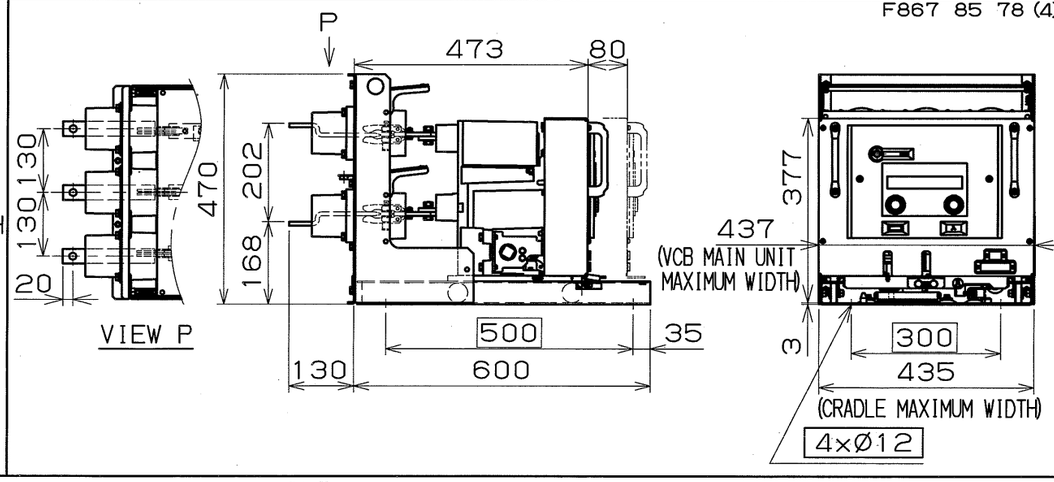
INSTALLATION TYPE	MOUNTING COMPATIBILITY	NEW TYPE : HA08/12D□-A, B, C, D	OLD TYPE : HA08/12A□-A, B, C, D
X (CLASS CW)	COMPATIBLE EXCEPT WIDTH AND HEIGHT OF VCB MAIN UNIT	F867 85 80 (4)	F867 83 74 (4)
U (CLASS CW THIN TYPE)	COMPATIBLE EXCEPT WIDTH AND HEIGHT OF VCB MAIN UNIT	F867 85 79 (4)	F867 83 75 (4)
Y (CLASS MW, PW)	COMPATIBLE EXCEPT WIDTH AND HEIGHT OF VCB MAIN UNIT, AND WIDTH OF CRADLE	F867 85 78 (4)	F867 83 73 (4)

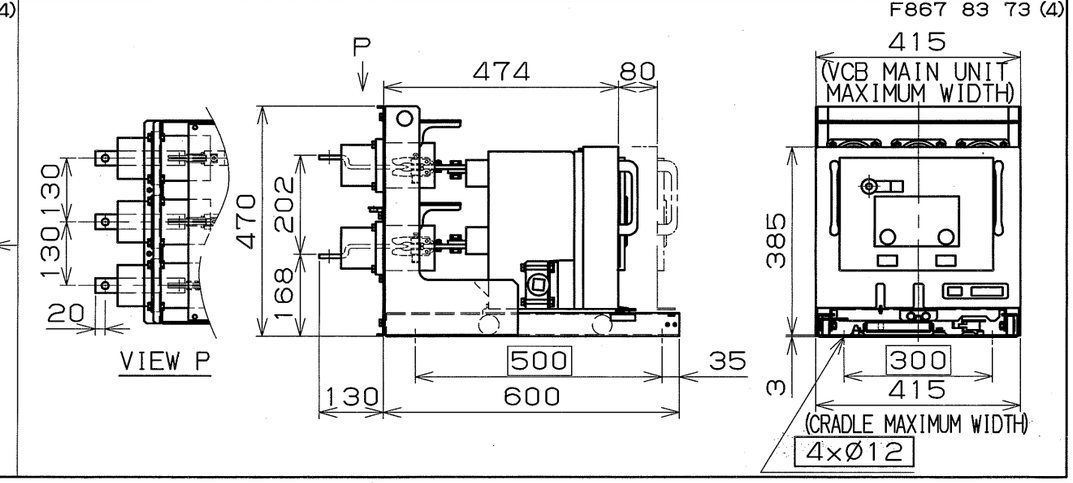












REMARKS) DIMENSIONS SHOWED □ IS MOUNTING HOLE PITCH. DIMENSIONS SHOWED ( ) IS APLLIED TO 12.5kA TYPE.

REVISIONS		DATE	NAME	APPROVED	SCALE	TITLE	DWG. CODE	
	DRAWN	2018-11-29	H. Nojiri	T. Okayabi	NTS	COMPARISON OF NEW AND OLD TYPE MULTI VCB DRAW-OUT TYPE MOTOR-DRIVEN STORED ENERGY TYPE		3/3
	CHECKED						DRAWING NO.	FIN 85 70 472

Fuji Electric FA Components & Systems Co., Ltd.

Ref. FIN 85 70 431

FI-3E