



GLOBAL TWIN SERIES

UL 489 LISTED

MOLDED CASE CIRCUIT BREAKERS
EARTH LEAKAGE CIRCUIT BREAKERS



50A Frame ~ 800A Frame | Max Voltage 600V

The new FUJI UL489 Molded Case Circuit Breaker and Earth Leakage Circuit Breaker (GLOBAL TWIN series) provide the ultimate in compact design, unprecedented value, and use anywhere in the world.



50A Frame



125A Frame



250A Frame



400A Frame



- ☐ MORE COMPACT (especially 50/100A Frame, 125A Frame, 250A Frame) than any breaker on the market, so control panels take up less space than ever before.
- ☐ Competitive pricing.
- ☐ Conformity to all WORLDWIDE STANDARDS, including UL / CSA / IEC / CE Marking / JIS (Japan) / CCC (China).



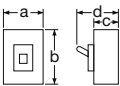
Fuji's GLOBAL TWIN series gives you the features and flexibility you need:

- 1) Suitable for branch circuit protection.
- 2) Rated current of 3-800A, Max 600V.
- 3) Standard type and High interrupting capacities are available in identically sized breakers.
- 4) Shunt trip (F), Under voltage release (R) and other accessories are available.
- 5) Screw, Flat, or Lug terminal are available.
- 6) Auxiliary switch, Alarm switch, and Shunt trip can be installed in the field.
- 7) Choose Breaker-Mounted (N type) or Panel Door-Mounted (V type), Flange-Mounted (F type), operating handles.

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Molded Case Circuit Breakers - New G-Twin, UL489 Listed BW Series

Frame size (A)		50		100			
Type		BW50RAGU-2P		BW50RAGU-3P			
Appearance (with Screw Terminals, 3 poles)							
SSCR=UL489 interrupting capacity							
Rated insulation voltage (V) (IEC60947-2)		AC	690	690	690		
		DC	—	—	—		
Rated voltage (V) (UL489)		AC	240	240	240		
Rated current (A)		3,5	10,15,20,30,32,40,50	3,5	10,15,20,30,32,40,50		
Poles		2	3	2	3		
Rated frequency (Hz)		50/60	50/60	50/60	50/60		
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	600V/△	—	—		
			600V/Y	—	—		
			480V/△	—	—		
			480V/Y	—	—		
			240V	14	14		
		DC	250V	—	—	—	
			IEC60947-2 JIS C 8201-2-1 Icu/Ics	AC	690V	—	—
					600V	5/3	5/3
					500V	7.5/4	7.5/4
					440V	10/5	10/5
	400V	10/5			10/5		
	GB14048.2 Icu/Ics	AC	230V	25/13	25/13		
			250V	5/3	5/3		
			400V	7/4	10/5		
230V			14/7	25/13			
Dimension inch (mm)		a	1.969(50)	2.953(75)	1.969(50)	2.953(75)	
		b	4.724(120)	4.724(120)	4.724(120)	4.724(120)	
		c	2.362(60)	2.362(60)	2.362(60)	2.362(60)	
		d	3.307(84)	3.307(84)	3.307(84)	3.307(84)	
Terminal construction	Screw terminals	None	●	●	●		
	Flat terminals	SF	●	●	●		
	Lug terminals	SB	—	—	●		
Internal accessories *4	Auxiliary switch	W	BZ6WR10CU	BZ6W*10CU	BZ6WR10CU	BZ6W*10CU	
	Auxiliary switch for low current	WD	BZ6WDR10CU	BZ6WD*10CU	BZ6WDR10CU	BZ6WD*10CU	
	Alarm switch	K	BZ6KR10CU	BZ6K*10CU	BZ6KR10CU	BZ6K*10CU	
	Alarm switch for low current	KD	BZ6KDR10CU	BZ6KD*10CU	BZ6KDR10CU	BZ6KD*10CU	
	Auxiliary & Alarm switch	WK	BZ6WKR10CU	BZ6WK*10CU	BZ6WKR10CU	BZ6WK*10CU	
	Aux and Alarm for low current	WDKD	BZ6WDKDR10CU	BZ6WDKD*10CU	BZ6WDKDR10CU	BZ6WDKD*10CU	
	Shunt trip	F	BZ6F*10CU	BZ6F*10CU	BZ6F*10CU	BZ6F*10CU	
	Under voltage trip	R	BZ6R*10CAU	BZ6R*10CU	BZ6R*10CAU	BZ6R*10CU	
	Accessories with terminal block	A	*1	*1	*1	*1	
External accessories	Padlocking device (Cap type)	Q1	BZ6L10CA	BZ6L10CA	BZ6L10CA	BZ6L10CA	
	Handle locking cover		BZ6L10C	BZ6L10C	BZ6L10C	BZ6L10C	
	External operating handle	V	BZ6V10D	BZ6V10D	BZ6V10D	BZ6V10D	
		N	BZ6N10D	BZ6N10D	BZ6N10D	BZ6N10D	
	Field Installable terminal Kit	Flat terminal kit	BZ-SU20B	BZ-SU20B	BZ-SU25B	BZ-SU25B	
		Lug terminal kit	—	—	—	—	
	Terminal covers *3	for screw, short type	Provided	Provided	Provided	Provided	
		for screw, long type	BW9BTAA-L2W	BW9BTAA-L3W	BW9BTAA-L3W	BW9BTAA-L3W	
		for Flat terminal	—	—	—	—	
		for Lug terminal	—	—	—	—	
Insulation barrier *2			BZ6B10C	BZ6B10C	BZ6B10C	BZ6B10C	
Mass: lb. (kg) (screw terminals)			0.88(0.4)	1.10(0.5)	0.88(0.4)	1.10(0.5)	

*1 For internal accessories with terminal block, specify "A" in the accessory P/N. When 50A Frame & 100A Frame are ordered w/UVT, the UVT is supplied with terminal block as standard.

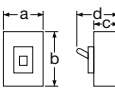
*2 Insulation barriers are only required with flat terminal.

*3 Short terminal covers are supplied as standard. If long terminal covers are required, please order BW9BTAA-L2W or BW9BTAA-L3W.

*4 These internal accessories can be installed in the field. (see page 20 for part number)

●: Available, —: Not available

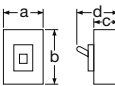
Molded Case Circuit Breakers - New G-Twin, UL489 Listed BW Series

Frame size (A)			125			250								
Type			BW125JAGU		BW125RAGU		BW250EAGU		BW250JAGU		BW250RAGU			
Appearance (with Screw Terminals, 3 poles)														
SSCR=UL489 interrupting capacity														
Rated insulation voltage (V) (IEC60947-2)			AC		690		690		690		690		690	
			DC		250		250		250		250		250	
Rated voltage (V) (UL489)			AC		600Y/347		600Y/347		240		600Y/347		600Y/347	
Rated current (A)			15,20,30,40,50,60,70,75,80,90,100,125						125,150,160,175,200,225,250					
Poles			2		3		2		3		2		3	
Rated frequency (Hz)			50/60		50/60		50/60		50/60		50/60		50/60	
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	600V/Δ	–	–	–	–	–	–	–	–	–	–	–
			600V/Y	10	10	18	–	10	25	–	–			
			480V/Δ	–	30	50	–	30	50	–	–			
			480V/Y	30	30	50	–	30	50	–	–			
			240V	50	50	100	22	50	100	–	–			
		DC	250V	10	10	10	10	10	10	–	–			
	IEC60947-2 JIS C 8201-2-1 Icu/Ics	AC	690V	–	–	5/3	–	–	–	–	–	–	–	–
			500V	15/8	–	36/18	10/5	–	18/9	–	36/18	–	–	
			440V	30/15	–	50/25	18/9	–	30/15	–	50/25	–	–	
			400V	30/15	–	50/25	18/9	–	30/15	–	50/25	–	–	
			380V	30/15	–	50/25	18/9	–	30/15	–	50/25	–	–	
			240V	50/25	–	100/50	36/18	–	50/25	–	100/50	–	–	
	GB14048.2 Icu/Ics	AC	250V	15/8	–	40/20	10/5	–	20/10	–	40/20	–	–	
			400V	30/15	–	50/25	18/9	–	30/15	–	50/25	–	–	
				230V	50/25	–	100/50	36/18	–	50/25	–	100/50	–	–
Dimension inch (mm)					a	2.362(60)	3.543(90)	3.543(90)	4.134(105)	4.134(105)	4.134(105)	4.134(105)	4.134(105)	
					b	6.372(171)	6.372(171)	6.372(171)	7.126(181)	7.126(181)	7.126(181)	7.126(181)	7.126(181)	
					c	2.677(68)	2.677(68)	2.677(68)	2.677(68)	2.677(68)	2.677(68)	2.677(68)	2.677(68)	
					d	3.740(95)	3.740(95)	3.740(95)	3.740(95)	3.740(95)	3.740(95)	3.740(95)	3.740(95)	
Terminal construction	Screw terminals (standard)		None	●	●	●	●	●	●	●	●	●	●	
	Flat terminals		SF	●	●	●	●	●	●	●	●	●	●	
	Lug terminals		SB	●	●	●	●	●	●	●	●	●	●	
Internal accessories	Auxiliary switch		W	BW9W1SG0(-R)		BW9W1SG0(-R)		BW9W1SG0(-R)		BW9W1SG0(-R)		BW9W1SG0(-R)		
	Auxiliary switch for low current		1	BW9W1DG0(-R)		BW9W1DG0(-R)		BW9W1DG0(-R)		BW9W1DG0(-R)		BW9W1DG0(-R)		
	Alarm switch		K	BW9K1SG0(-R)		BW9K1SG0(-R)		BW9K1SG0(-R)		BW9K1SG0(-R)		BW9K1SG0(-R)		
	Alarm switch for low current		8	BW9K1DG0(-R)		BW9K1DG0(-R)		BW9K1DG0(-R)		BW9K1DG0(-R)		BW9K1DG0(-R)		
	Auxiliary & Alarm switch		WK	BW9WKS0(-R)		BW9WKS0(-R)		BW9WKS0(-R)		BW9WKS0(-R)		BW9WKS0(-R)		
	Aux & Alarm for low current		18	BW9WKDG0(-R)		BW9WKDG0(-R)		BW9WKDG0(-R)		BW9WKDG0(-R)		BW9WKDG0(-R)		
	Shunt trip		F	BW9F*G0		BW9F*G0		BW9F*G0		BW9F*G0		BW9F*G0		
	Under voltage trip		R	–	BW9RGA*	BW9RGA*		BW9RGA*		BW9RGA*		BW9RGA*		
	Accessories with terminal block		A	See page 22		See page 22		See page 22		See page 22		See page 22		
External accessories	Padlocking device		Q1	BW9Q1CA		BW9Q1CA		BW9Q1CA		BW9Q1CA		BW9Q1CA		
			Q2	BW9Q2CA		BW9Q2CA		BW9Q2GA		BW9Q2GA		BW9Q2GA		
	External operating handle		V	–	BW9V0CA	BW9V0CA		BW9V0GA		BW9V0GA		BW9V0GA		
			N	–	BW9N0CA	BW9N0CA		BW9N0GA		BW9N0GA		BW9N0GA		
			F	–	BW9F0CA	BW9F0CA		BW9F0GA		BW9F0GA		BW9F0GA		
	Field Installable terminal kit	Flat terminal kit	BZ-S50B-2253 GLOBAL						BW9SS0CA-3 GLOBAL					
		Lug terminal kit	BW9SL0CA-3 GLOBAL						Please see page 28.					
	Terminal covers *1	Short type,gray-white	Provided		Provided		Provided		Provided		Provided		Provided	
		Short type,transparent	BW9BTCA-S2	BW9BTCA-S3	BW9BTCA-S3		BW9BTGA-S3		BW9BTGA-S3		BW9BTGA-S3		BW9BTGA-S3	
Long type,gray-white		BW9BTCA-L2W	BW9BTCA-L3W	BW9BTCA-L3W		BW9BTGA-L3W		BW9BTGA-L3W		BW9BTGA-L3W		BW9BTGA-L3W		
Long type,transparent		BW9BTCA-L2	BW9BTCA-L3	BW9BTCA-L3		BW9BTGA-L3		BW9BTGA-L3		BW9BTGA-L3		BW9BTGA-L3		
Insulation barrier			BW9BPCA			BW9BPCA			BW9BPGA			BW9BPGA		
Mass: lb. (kg) (screw terminals)			1.76(0.8)	2.65(1.2)	2.20(1.0)	2.65(1.2)	3.09(1.4)	3.53(1.6)	3.09(1.4)	3.53(1.6)	3.09(1.4)	3.53(1.6)		

*1 Short type terminal covers (gray-white) are supplied as standard.

●: Available, -: Not available

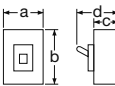
Molded Case Circuit Breakers - New G-Twin, UL489 Listed BW Series

Frame size (A)				400							
Type				BW400EAGU		BW400SAGU		BW400RAGU		BW400HAGU	
Appearance (with Flat Terminals, 3 poles)											
SSCR=UL489 interrupting capacity											
Rated insulation voltage (V) (IEC60947-2)				AC	690	690	690	690	690	690	
				DC	250	250	250	250	250	250	
Rated voltage (V) (UL489)				AC	240	480	480	480	480	600	
Rated current (A)				250, 300, 350, 400							
Poles				2		3		2		3	
Rated frequency (Hz)				50/60		50/60		50/60		50/60	
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	600V/Δ	–	–	–	–	25	25		
			600V/Y	–	–	–	–	25	25		
			480V/Δ	–	35	35	50	50	65 (50: with lug terminals)	65 (50: with lug terminals)	
			480V/Y	–	35	35	50	50	65 (50: with lug terminals)	65 (50: with lug terminals)	
			240V	22	50	50	100	100	125	125	
	IEC60947-2 JIS C 8201-2-1 Icu/Ics	DC	250V	10	10	10	10	10	10	10	
			690V	–	10/5	10/5	15/8	15/8	15/8	15/8	
			500V	18/9	20/10	20/10	36/18	36/18	42/21	42/21	
			440V	30/15	36/18	36/18	50/25	50/25	70/35	70/35	
			400V	30/15	36/18	36/18	50/25	50/25	70/35	70/35	
			380V	30/15	36/18	36/18	50/25	50/25	70/35	70/35	
			240V	50/25	85/43	85/43	100/50	100/50	125/63	125/63	
	GB14048.2 Icu/Ics	AC	400V	30/15	36/18	36/18	50/25	50/25	70/35	70/35	
			230V	50/25	85/43	85/43	100/50	100/50	125/63	125/63	
				a	5.512(140)	5.512(140)	5.512(140)	5.512(140)	5.512(140)	5.512(140)	
b				10.12(257)	10.12(257)	10.12(257)	10.12(257)	10.12(257)	10.12(257)	10.12(257)	
c				4.055(103)	4.055(103)	4.055(103)	4.055(103)	4.055(103)	4.055(103)	4.055(103)	
d				5.748(146)	5.748(146)	5.748(146)	5.748(146)	5.748(146)	5.748(146)	5.748(146)	
Terminal construction	Screw terminals		–	–	–	–	–	–	–	–	
	Flat terminals (standard)		None	●	●	●	●	●	●	●	
	Lug terminals		SB	●	●	●	●	●	●	●	
Internal accessories	Auxiliary switch		W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA	
	Auxiliary switch 2 contacts		V	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA	
	Aux. low current		1	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA	
	Aux. low current 2 contacts		2	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA	
	Alarm switch		K	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA	
	Alarm switch 2 contacts		J	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA	
	Alarm low current		8	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA	
	Alarm low current 2 contacts		9	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA	
	Shunt trip		F	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*	
	Under voltage trip		R	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*	
	Accessories with terminal block		A	See page 22	See page 22	See page 22	See page 22	See page 22	See page 22	See page 22	
External accessories	Padlocking device		QN	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA	
			Q2	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA	
	External operating handle		V	BW9V0HA	BW9V0HA	BW9V0HA	BW9V0HA	BW9V0HA	BW9V0HA	BW9V0HA	
			N	BW9N0HA	BW9N0HA	BW9N0HA	BW9N0HA	BW9N0HA	BW9N0HA	BW9N0HA	
			F	BW9F0HA	BW9F0HA	BW9F0HA	BW9F0HA	BW9F0HA	BW9F0HA	BW9F0HA	
			–	–	–	–	–	–	–	–	
	Field Installable terminal		–	–	–	–	–	–	–	–	
	Terminal covers *1	Short type, gray-white	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	
		Short type, transparent	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	
		Long type, gray-white	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	
Long type, transparent		BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3		
Insulation barrier		B-43A	B-43A	B-43A	B-43A	B-43A	B-43A	B-43A	B-43A		
Mass: lb. (kg) (screw terminals)				10.14(4.6)	12.35(5.6)	10.14(4.6)	12.35(5.6)	10.14(4.6)	12.35(5.6)	10.14(4.6)	12.35(5.6)

*1 Terminal covers are NOT supplied as standard.

●: Available, –: Not available

Molded Case Circuit Breakers - New G-Twin, UL489 Listed BW Series

Frame size (A)			630		800		
Type			BW630RAGU		BW630HAGU		
Appearance (with Flat Terminals, 3 poles)							
SSCR=UL489 interrupting capacity							
Rated insulation voltage (V) (IEC60947-2)			AC DC	690 250	690 250	690 250	
Rated voltage (V) (UL489)			AC	480	600	480 600	
Rated current (A)			500, 600, 630			700, 800	
Poles			3		3	3	
Rated frequency (Hz)			50/60		50/60	50/60	
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	600V/△	–	25	–	25
			600V/Y	–	25	–	25
			480V/△	50	65 (50: with lug terminals)	50	65 (50: with lug terminals)
			480V/Y	50	65 (50: with lug terminals)	50	65 (50: with lug terminals)
			240V	100	100	100	125
		250V	10	10	10	10	
	IEC60947-2 JIS C 8201-2-1 Icu/Ics	AC	690V	15/8	15/8	15/8	15/8
			500V	36/18	42/21	36/18	42/21
			440V	50/25	70/35	50/25	70/35
			400V	50/25	70/35	50/25	70/35
			380V	50/25	70/35	50/25	70/35
		240V	100/50	125/63	100/50	125/63	
	DC	250V	40/20	40/20	40/20	40/20	
		GB14048.2 Icu/Ics	AC	400V	50/25	70/35	50/25
	230V			100/50	125/63	100/50	125/63
	Dimension inch (mm)		a	8.268(210)	8.268(210)	8.268(210)	8.268(210)
b			10.83(275)	10.83(275)	10.83(275)	10.83(275)	
c			4.055(103)	4.055(103)	4.055(103)	4.055(103)	
d			5.748(146)	5.748(146)	5.748(146)	5.748(146)	
Terminal construction	Screw terminals	–	–	–	–	–	
	Flat terminals	None	●	●	● *2	● *2	
	Lug terminals	SB	● *1	● *1	●	●	
Internal accessories	Auxiliary switch	W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA	
	Auxiliary switch 2 contacts	V	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA	
	Aux. low current	1	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA	
	Aux. low current 2 contacts	2	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA	
	Alarm switch	K	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA	
	Alarm switch 2 contacts	J	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA	
	Alarm low current	8	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA	
	Alarm low current 2 contacts	9	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA	
	Shunt trip	F	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*	
	Under voltage trip	R	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*	
	Accessories with terminal block	A	See page 22	See page 22	See page 22	See page 22	
External accessories	Padlocking device	QN	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA	
		Q2	BW9Q2JA	BW9Q2JA	BW9Q2JA	BW9Q2JA	
	External operating handle	V	BW9V0JA	BW9V0JA	BW9V0JA	BW9V0JA	
		N	BW9N0JA	BW9N0JA	BW9N0JA	BW9N0JA	
	Field Installable terminal	–	–	–	–	–	
	Terminal covers *3	Short type, gray-white Short type, transparent Long type, gray-white Long type, transparent	–	–	–	–	–
			–	–	–	–	–
			BW9BTJA-L3W	BW9BTJA-L3W	BW9BTJA-L3W	BW9BTJA-L3W	BW9BTJA-L3W
BW9BTJA-L3			BW9BTJA-L3	BW9BTJA-L3	BW9BTJA-L3	BW9BTJA-L3	
Insulation barrier		B-43A	B-43A	B-43A	B-43A		
Mass: lb. (kg) (screw terminals)			19.62(8.9)	19.62(8.9)	20.72(9.4)	20.72(9.4)	

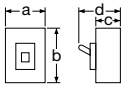
*1 Lug terminal is NOT available for 630 ampere.

*2 Flat terminal is NOT available for 800 ampere.

*3 Terminal covers are NOT supplied as standard.

●: Available, –: Not available

Earth Leakage Circuit Breakers - New G-Twin, UL489 Listed EW Series

Frame size (A)			50	100				
Type			EW50RAGU-3P	EW100EAGU-2P	EW100EAGU-3P			
Appearance (with Screw Terminals, 3 poles)								
SSCR=UL489 interrupting capacity								
Rated voltage AC (V)			UL	240	240	240		
			IEC	100-230-440	100-230	100-230-440		
Rated current (A)			3, 5, 10, 15, 20, 30, 32, 40, 50			60, 63, 70, 75, 80, 90, 100		
Rated Sensitive Current (mA)			30, 50, 100/200/500			30, 100/200	30, 50, 100/200/500	
Poles			3			2	3	
Rated frequency (Hz)			50/60			50/60	50/60	
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	480V/Δ	–			–	
			480V/Y	–			–	
			240V	14			14	
	IEC60947-2 JIS C 8201-2-2 Icu/Ics	AC	440V	10/5			–	10/5
			415V	10/5			–	10/5
			380V	10/5			–	10/5
			230V	25/13			10/5	25/13
			100V	25/13			10/5	25/13
	GB14048.2 Icu/Ics	AC	400V	10/5			7.5/4	10/5
			230V	25/13			10/5	25/13
Dimension inch (mm)					a	2.953(75)	2.953(75)	2.953(75)
					b	4.724(120)	4.724(120)	4.724(120)
					c	2.362(60)	2.362(60)	2.362(60)
					d	3.307(84)	3.307(84)	3.307(84)
Terminal construction	Screw terminals		None	●			●	●
	Flat terminals		SF	●			●	●
	Lug terminals		SB	–			–	–
Internal accessories *4	Auxiliary switch		W	BZ6W*10CU			BZ6W*10CU	BZ6W*10CU
	Alarm switch		K	BZ6K*10CU			BZ6K*10CU	BZ6K*10CU
	Shunt trip		F	BZ6F*10CAU			BZ6F*10CAU	BZ6F*10CAU
	Under voltage trip		R	BZ6R*10CAU			BZ6R*10CAU	BZ6R*10CAU
	Accessories with terminal block		A	*1			*1	*1
External accessories	Padlocking device (Cap type)		Q1	BZ6L10CA			BZ6L10CA	BZ6L10CA
	Handle locking cover			BZ6L10C			BZ6L10C	BZ6L10C
	External operating handle		V	BZ6V10D			BZ6V10D	BZ6V10D
			N	BZ6N10D			BZ6N10D	BZ6N10D
	Field Installable terminal kit	Flat terminal kit	BU-SU20B			BU-SU25B		BU-SU25B
		Lug terminal kit	–			–		–
	Terminal covers *3	for screw, short type	Provided			Provided		Provided
		for screw, long type	BW9BTAA-L3W			BW9BTAA-L3W		BW9BTAA-L3W
		for flat terminal	–			–		–
		for Lug terminal	–			–		–
	Insulation barrier *2		BZ6B10C			BZ6B10C		BZ6B10C
Mass: lb. (kg) (screw terminals)			1.32(0.6)			1.32(0.6)	1.32(0.6)	

*1 For Internal accessories with terminal block, specify "A" in the accessory P/N. When 50A Frame & 100A Frame are ordered w/UVT, the UVT is supplied with terminal block as standard.

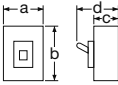
*2 Insulation barriers are only required with flat terminal.

*3 Short terminal covers are supplied as standard. If long terminal covers are required, please order BZ6TB10C2U or BZ6TB10C3U.

*4 These internal accessories can be installed in the field. (see page 20 for part number)

●: Available, –: Not available

Earth Leakage Circuit Breakers - New G-Twin, UL489 Listed EW Series

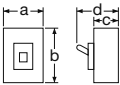
Frame size (A)		125		250	
Type		EW125JAGU	EW125RAGU	EW250JAGU	EW250RAGU
Appearance (with Screw Terminals, 3 poles)					
SSCR=UL489 interrupting capacity					
Rated voltage AC (V)		UL	240-480	240-480	240-480
		IEC	100-230-440	100-230-440	100-230-440
Rated current (A)		15,20,30,40,50,60,75,100,125		125,150,160,175,200,225,250	
Instantaneous trip type	Rated Sensitive Current (mA)	B	30	30	30
	Tripping time (s)		0.1 or less	0.1 or less	0.1 or less
Instantaneous /time-delay trip type	Rated Sensitive Current (mA)	K	100/200/500/1000	100/200/500/1000	100/200/500/1000
	Tripping time (s)		0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2
	Inertia non-tripping time (s)		0/0.2/0.5/1	0/0.2/0.5/1	0/0.2/0.5/1
Poles			3	3	3
Rated frequency (Hz)			50/60	50/60	50/60
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	480V/Δ	30	50
			480V/Y	30	50
			240V	50	100
	IEC60947-2 JIS C 8201-2-2 Icu/Ics	AC	440V	30/15	50/25
			415V	30/15	50/25
			380V	30/15	50/25
			240V	50/25	100/50
			100V	50/25	100/50
			400V	30/15	50/25
			230V	50/25	100/50
	GB14048.2 Icu/Ics	AC	400V	30/15	50/25
			230V	50/25	100/50
Dimension inch (mm)		a	3.543(90)	3.543(90)	4.134(105)
		b	6.372(171)	6.372(171)	7.126(181)
		c	2.677(68)	2.677(68)	2.677(68)
		d	3.740(95)	3.740(95)	3.740(95)
Terminal construction	Screw terminals	None	●	●	●
	Flat terminals	SF	●	●	●
	Lug terminals	SB	●	●	●
Internal accessories	Auxiliary switch	W	BW9W1SG0(-R)	BW9W1SG0(-R)	BW9W1SG0(-R)
	Auxiliary switch for low current	1	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)
	Alarm switch	K	BW9K1SG0(-R)	BW9K1SG0(-R)	BW9K1SG0(-R)
	Alarm switch for low current	8	BW9K1DG0(-R)	BW9K1DG0(-R)	BW9K1DG0(-R)
	Auxiliary & Alarm switch	WK	BW9WKS0(-R)	BW9WKS0(-R)	BW9WKS0(-R)
	Aux. & Alarm for low current	18	BW9WKDG0(-R)	BW9WKDG0(-R)	BW9WKDG0(-R)
	Shunt trip	F	BW9F*G0	BW9F*G0	BW9F*G0
	Under voltage trip	R	BW9RGA*	BW9RGA*	BW9RGA*
	Earth alarm switch *2	L	BW9L1SG0	BW9L1SG0	BW9L1SG0
	Accessories with terminal block	A	See page 22	See page 22	See page 22
External accessories	Padlocking device	Q1	BW9Q1CA	BW9Q1CA	BW9Q1CA
		Q2	BW9Q2CA	BW9Q2CA	BW9Q2CA
	External operating handle	V	BW9V0CA	BW9V0CA	BW9V0CA
		N	BW9N0CA	BW9N0CA	BW9N0CA
		F	BW9F0CA	BW9F0CA	BW9F0CA
	Field Installable terminal kit	Flat terminal kit	BW9SS0CA-3 GLOBAL		BZ-S50B-2253 GLOBAL
		Lug terminal kit	BW9SL0CA-3 GLOBAL		Please see page 28.
	Terminal covers *1	Short type, gray-white	Provided	Provided	Provided
		Short type, transparent	BW9BTCA-S3	BW9BTCA-S3	BW9BTGA-S3
		Long type, gray-white	BW9BTCA-L3W	BW9BTCA-L3W	BW9BTGA-L3W
		Long type, transparent	BW9BTCA-L3	BW9BTCA-L3	BW9BTGA-L3
	Insulation barrier		BW9BPCA	BW9BPCA	BW9BPGA
Mass: lb. (kg) (screw terminals)			2.65(1.2)	2.65(1.2)	3.53(1.6)

*1 Short type terminal covers (gray-white) are supplied as standard.

*2 Right-side mount only.

●: Available, -/: Not available

Earth Leakage Circuit Breakers - New G-Twin, UL489 Listed EW Series

Frame size (A)			400			630				
Type			EW400SAGU		EW400RAGU		EW400HAGU		EW630RAGU	
Appearance (with Flat Terminals, 3 poles)										
SSCR=UL489 interrupting capacity										
Rated voltage AC (V)			UL		240-480		240-480		240-480	
			IEC		100-230-440		100-230-440		100-230-440	
Rated current (A)					250, 300, 350, 400				500, 600, 630	
Instantaneous trip type	Rated Sensitive Current (mA)	B	30		30		30		-	
	Tripping time (s)		0.1 or less		0.1 or less		0.1 or less		-	
Instantaneous /time-delay trip type	Rated Sensitive Current (mA)	K	100/200/500/1000		100/200/500/1000		100/200/500/1000		100/200/500/1000	
	Tripping time (s)		0.1/0.4/1/2		0.1/0.4/1/2		0.1/0.4/1/2		0.1/0.4/1/2	
	Inertia non-tripping time (s)		0/0.2/0.5/1		0/0.2/0.5/1		0/0.2/0.5/1		0/0.2/0.5/1	
Poles			3		3		3		3	
Rated frequency (Hz)			50/60		50/60		50/60		50/60	
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	480V/Δ	35	50	65 (50: with lug terminals)	50			
			480V/Y	35	50	65 (50: with lug terminals)	50			
			240V	50	100	125	100			
	IEC60947-2 JIS C 8201-2-2 Icu/Ics	AC	440V	36/18	50/25	70/35	50/25			
			415V	36/18	50/25	70/35	50/25			
			380V	36/18	50/25	70/35	50/25			
			240V	85/43	100/50	125/63	100/50			
			100V	85/43	100/50	125/63	100/50			
	GB14048.2 Icu/Ics	AC	400V	36/18	50/25	70/35	50/25			
			230V	85/43	100/50	125/63	100/50			
Dimension inch (mm)			a	5.512(140)	5.512(140)	5.512(140)	8.268(210)			
			b	10.12(257)	10.12(257)	10.12(257)	10.83(275)			
			c	4.055(103)	4.055(103)	4.055(103)	4.055(103)			
			d	5.748(146)	5.748(146)	5.748(146)	5.748(146)			
Terminal construction	Screw terminals	-	-	-	-	-				
	Flat terminals	None	●	●	●	●				
	Lug terminals	SB	●	●	●	●*1				
Internal accessories	Auxiliary switch	W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA				
	Auxiliary switch, 2 contacts	V	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA				
	Aux. low current	1	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA				
	Aux. low current, 2 contacts	2	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA				
	Alarm switch	K	BW9K1SHA	BW9K1SHA	BW9K1SHA	BW9K1SHA				
	Alarm switch, 2 contacts	J	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA				
	Alarm low current	8	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA				
	Alarm low current, 2 contacts	9	BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA				
	Shunt trip	F	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*				
	Under voltage trip	R	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*				
	Earth alarm switch	L	-	-	-	-				
	Accessories with terminal block	A	See page 22	See page 22	See page 22	See page 22				
External accessories	Padlocking device	QN	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA				
		Q2	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA				
	External operating handle	V	BW9V0HA	BW9V0HA	BW9V0HA	BW9V2JA				
		N	BW9N0HA	BW9N0HA	BW9N0HA	BW9N0JA				
		F	BW9F0HA	BW9F0HA	BW9F0HA	-				
		Field Installable terminal	-	-	-	-				
	Terminal covers *2	Short type, gray-white	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	-				
		Short type, transparent	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	-				
		Long type, gray-white	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W				
		Long type, transparent	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3				
Insulation barrier		B43-A	B43-A	B43-A	B43-A					
Mass: lb. (kg) (screw terminals)			12.35(5.6)		12.35(5.6)		12.35(5.6)			

*1 Lug Terminal is NOT available for 630 ampere.

*2 Terminal covers are NOT supplied as standard.

●: Available, -: Not available

Part Number Structure

G-TWIN; MCCB (50 - 800AF)

BW250EAGU - 3P 100 SF

Product category _____
Number of poles _____
Rated current (A) _____
Terminal structure _____

Code	Line side	Load side	BW50RAGU	BW100EAGU, BW125RAGU, BW125RAGU BW250EAGU, BW125JAGU, BW250RAGU	BW400EAGU, BW400SAGU, BW400RAGU, BW400HAGU BW630RAGU, BW630HAGU, BW800RAGU, BW800HAGU
None	Screw	Screw	●	●	-
None	Flat	Flat	-	-	●
SB	Lug	Lug	-	●	●*1
SF	Flat	Flat	●	●	-

*1 Lug terminal is Not available for BW630□AGU-3P630 (Rated current 630 ampere in BW630).

G-TWIN; ELCB (50 - 630AF)

EW50RAGU - 3P 050 K SF

Product category _____
Number of poles _____
Rated current (A) _____
Rated sensitive current (mA) _____

Code	Line side	2 poles	3 poles
B	30mA	●	●
D	50mA*	-	●
K	100/200mA** changeable	●	-
K	100/200/500* or 100/200/500/1000mA changeable	-	●

*Only for EW50RAGU-3P, EW100EAGU-3P

**Only for EW100EAGU-2P

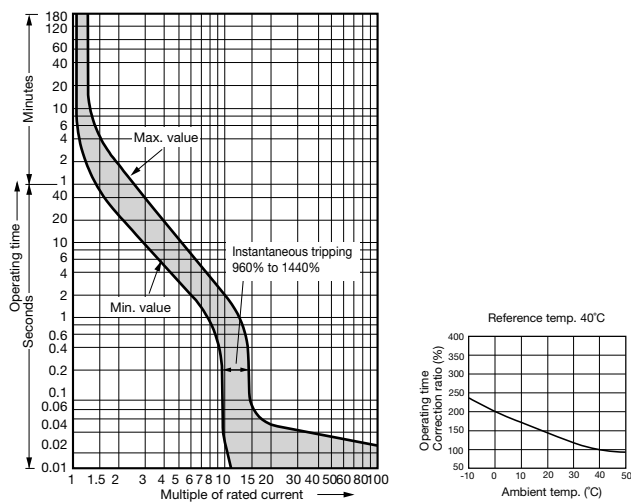
Terminal structure _____

Code	Line side	Load side	EW50RAGU EW100EAGU	EW125JAGU, EW125RAGU EW125JAGU, EW250RAGU	EW400SAGU, EW400RAGU, EW400HAGU EW630RAGU
None	Screw	Screw	●	●	-
None	Flat	Flat	-	-	●
SB	Lug	Lug	-	●	●*1
SF	Flat	Flat	●	●	-

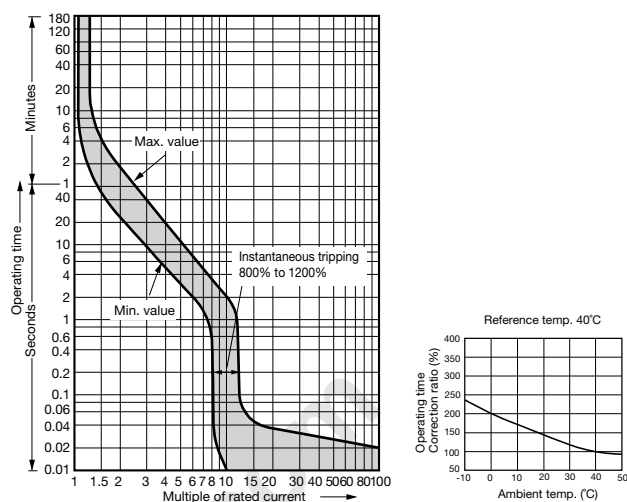
*1 Lug terminal is Not available for EW630RAGU-3P630 (Rated current 630 ampere in EW630).

Characteristic Curves

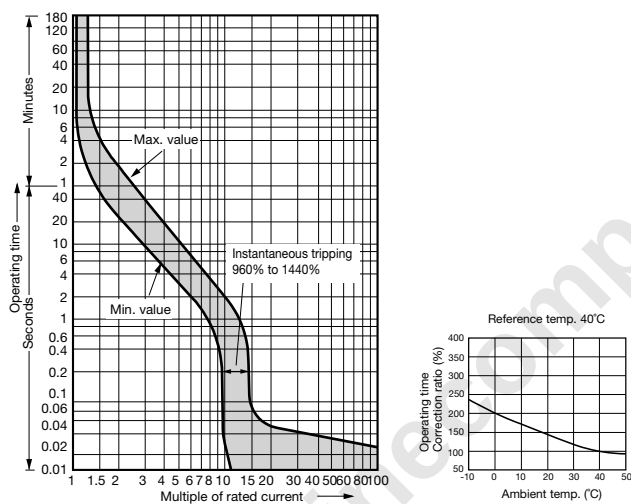
● BW50RAGU, EW50RAGU (Rated current: 5A, 10A, 32A, 40A)



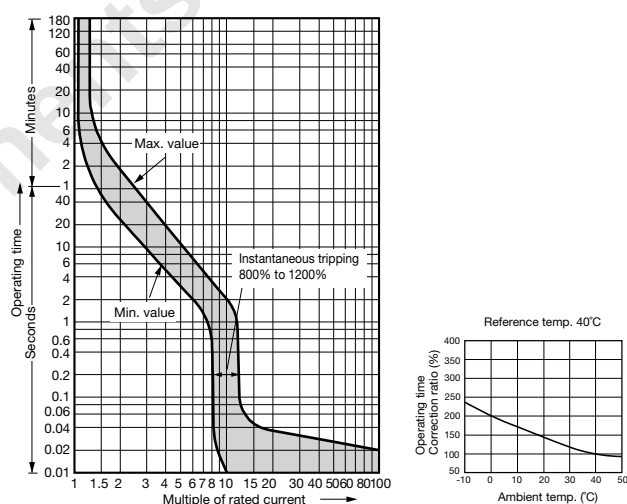
● BW50RAGU, EW50RAGU (Rated current: 3A, 15A, 20A, 30A, 50A)



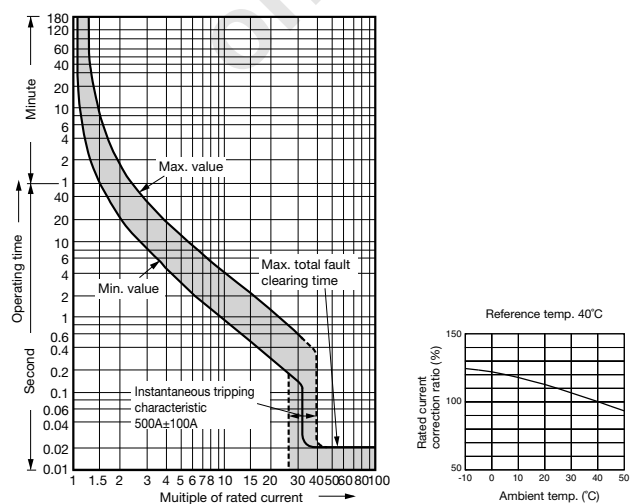
● BW100EAGU, EW100EAGU (Rated current: 60A, 63A, 75A, 80A, 90A)



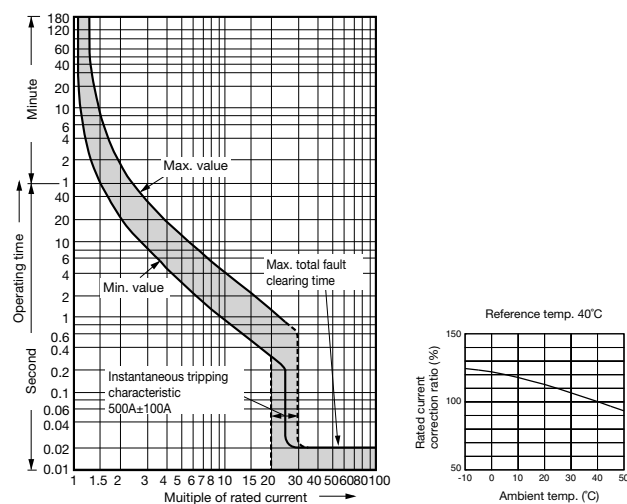
● BW100EAGU, EW100EAGU (Rated current: 100A)



● BW125, EW125 (Rated current: 15A)

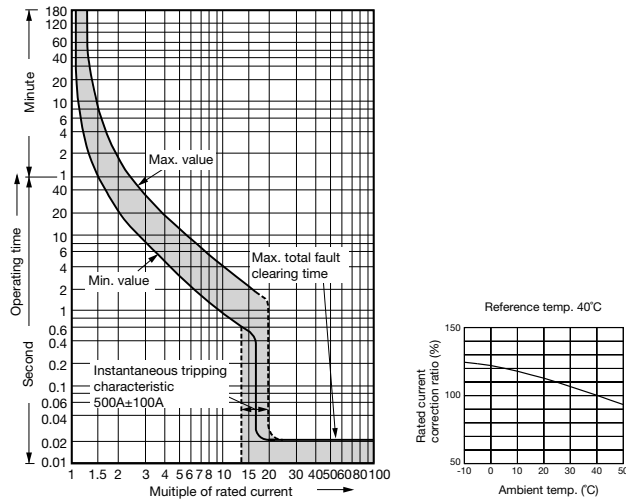


● BW125, EW125 (Rated current: 20A)

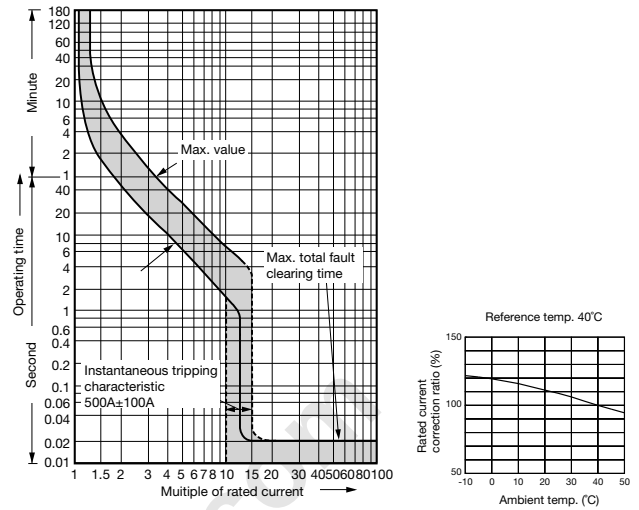


Characteristic Curves

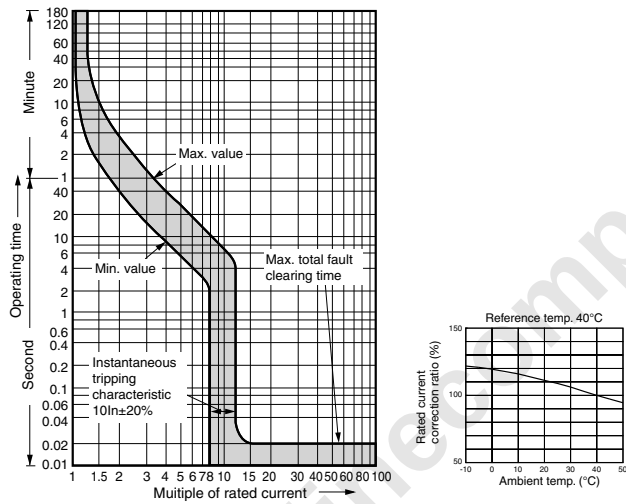
● BW125, EW125 (Rated current: 30A)



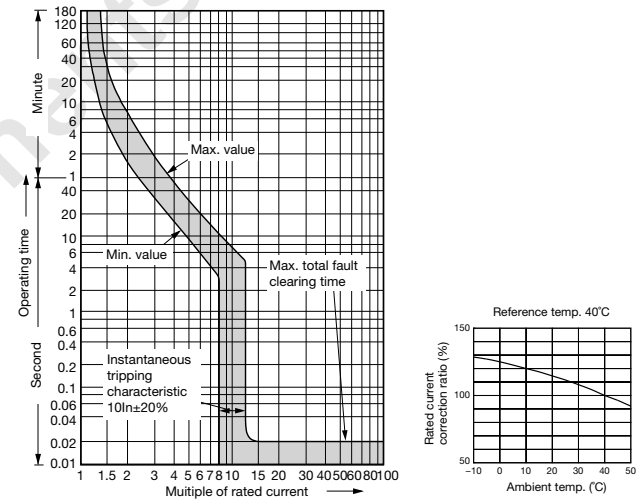
● BW125, EW125 (Rated current: 40A)



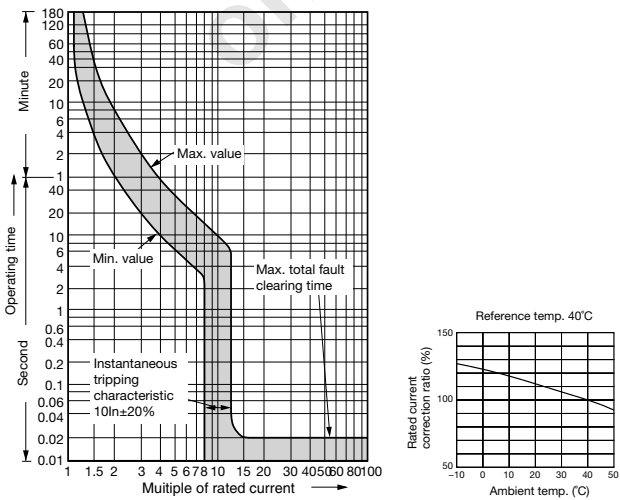
● BW125, EW125 (Rated current: 50 - 125A)



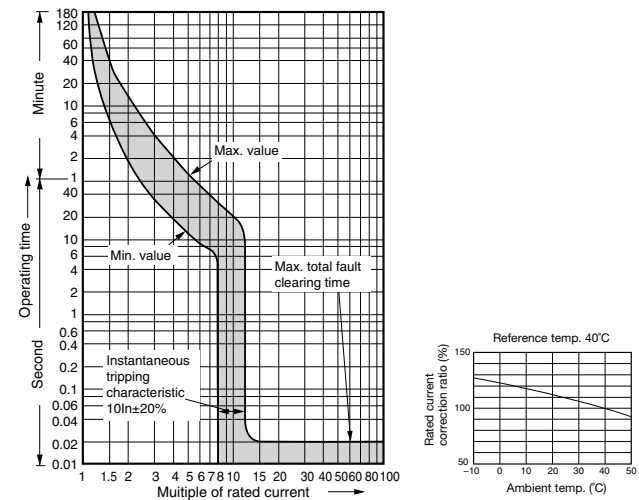
● BW250, EW250



● BW400, EW400

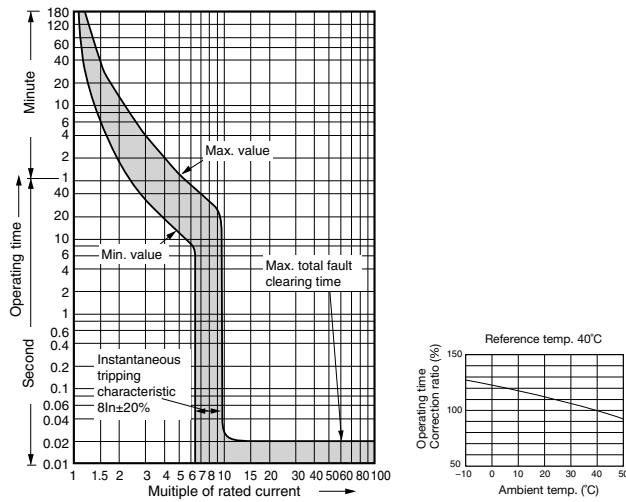


● BW630, EW630

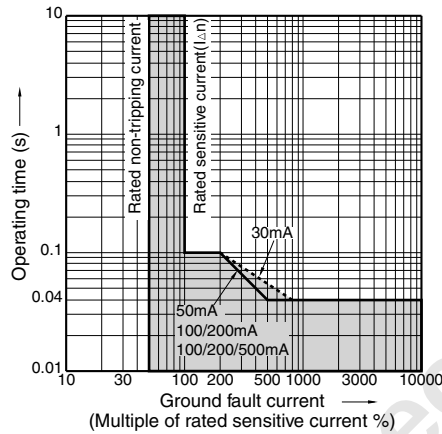


Characteristic Curves

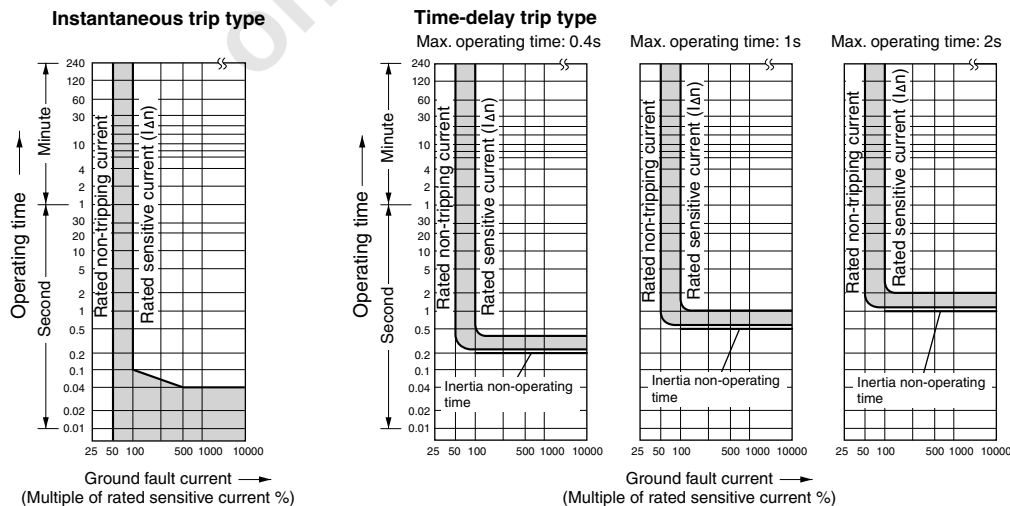
● BW800



● Earth leakage tripping (EW50, EW100)

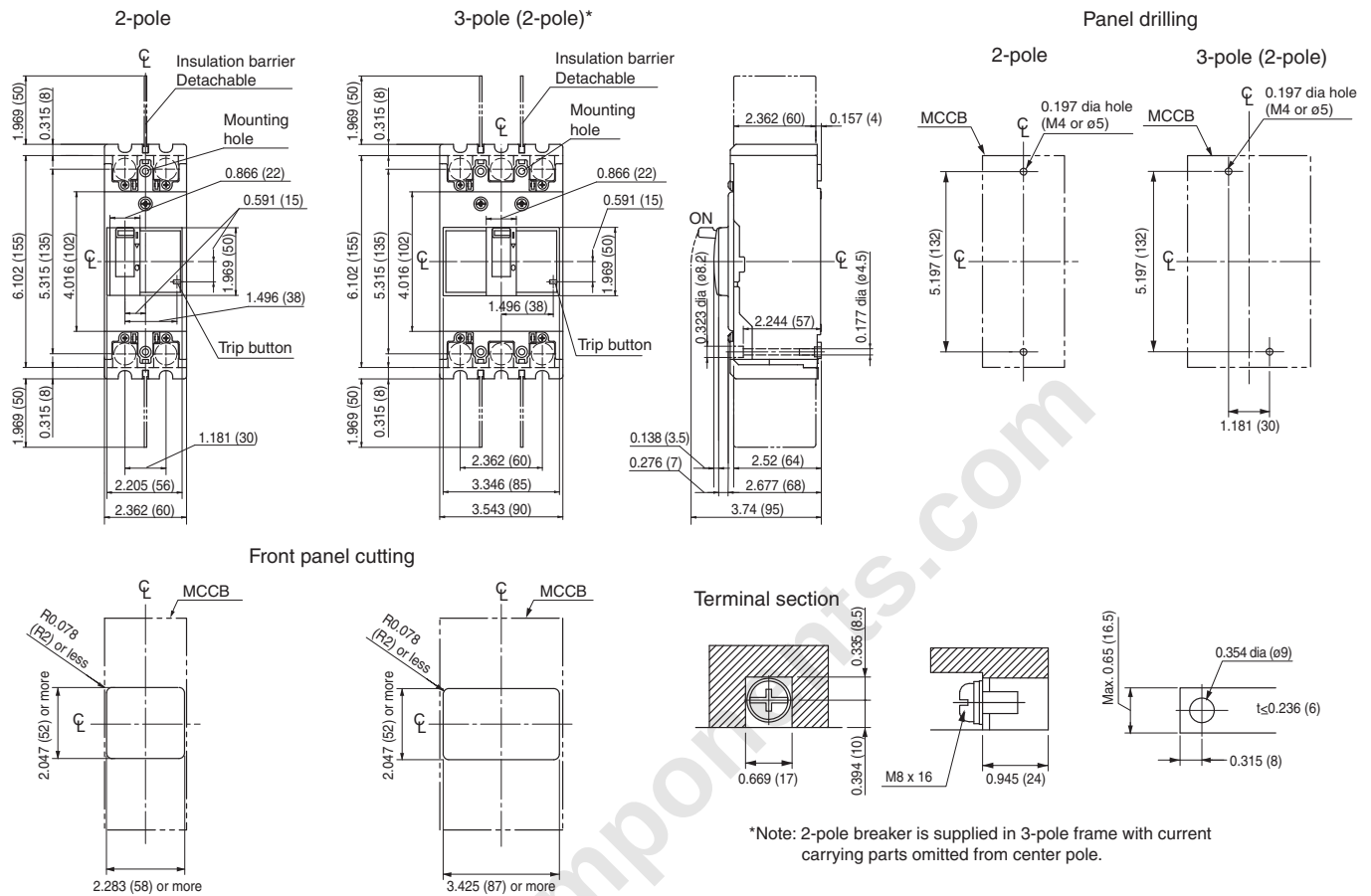


● Earth leakage tripping (EW125, EW250, EW400, EW630)

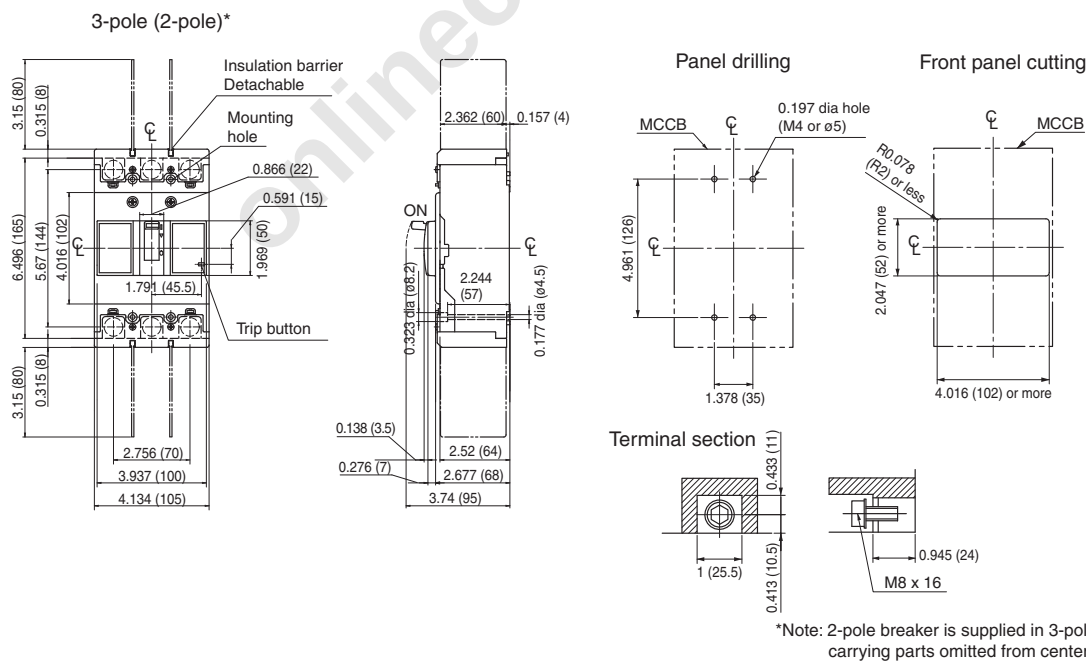


Dimensions: inch (mm)

BW125*U-2P, 3P

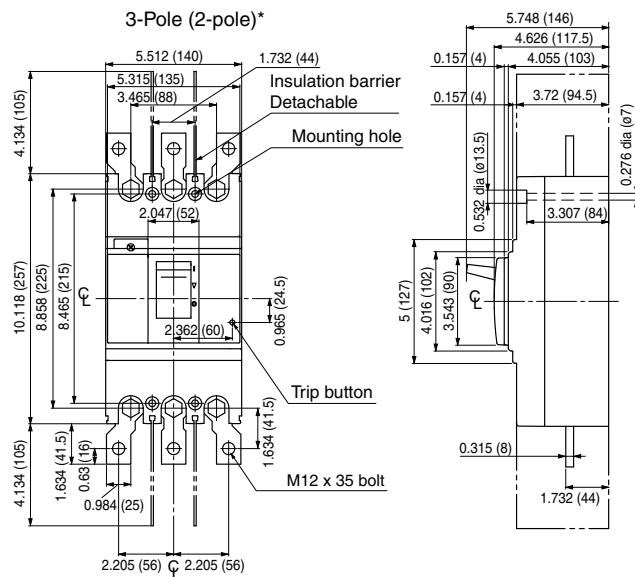


BW250*U-2P, 3P



Dimensions: inch (mm)

BW400*U-2P, 3P

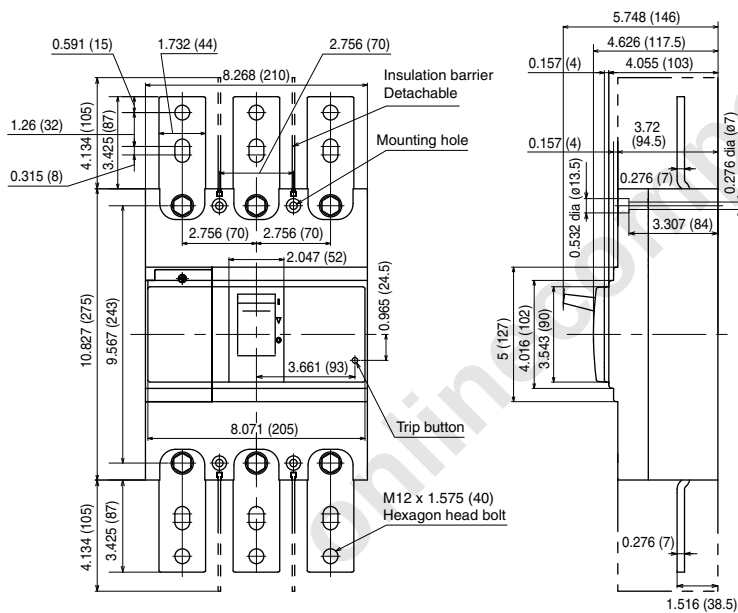


Panel drilling

Front panel cutting

*Note: 2-pole breaker is supplied in 3-pole frame with current carrying parts omitted from center pole.

BW630*U-3P

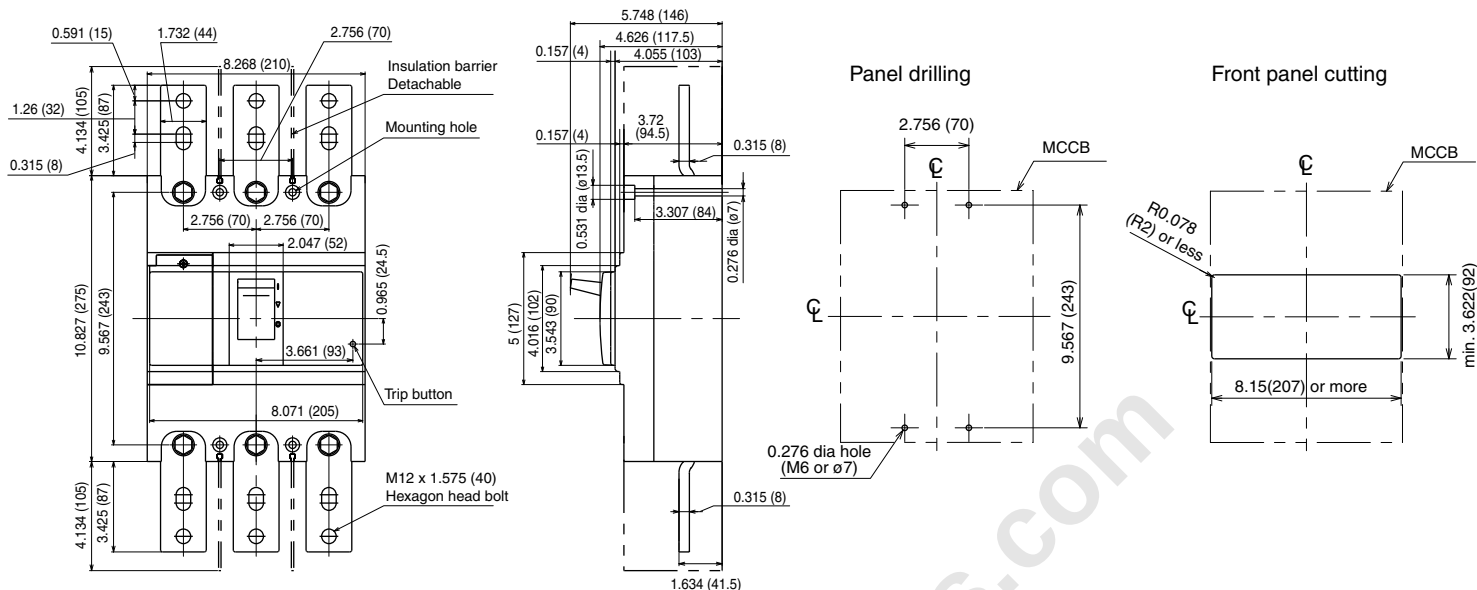


Panel drilling

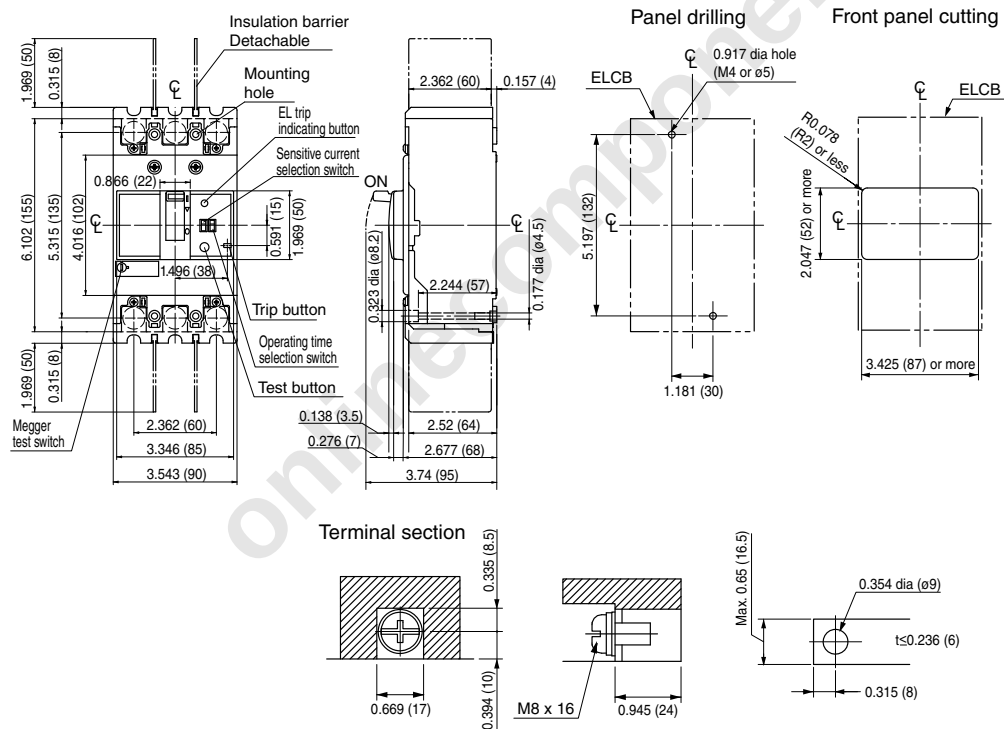
Front panel cutting

Dimensions: inch (mm)

BW800*U-3P

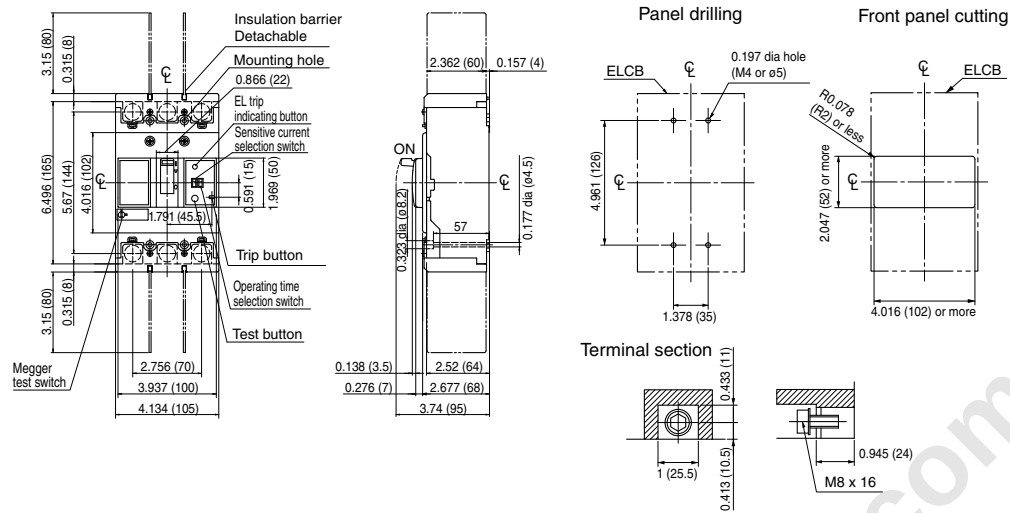


EW125*U-3P

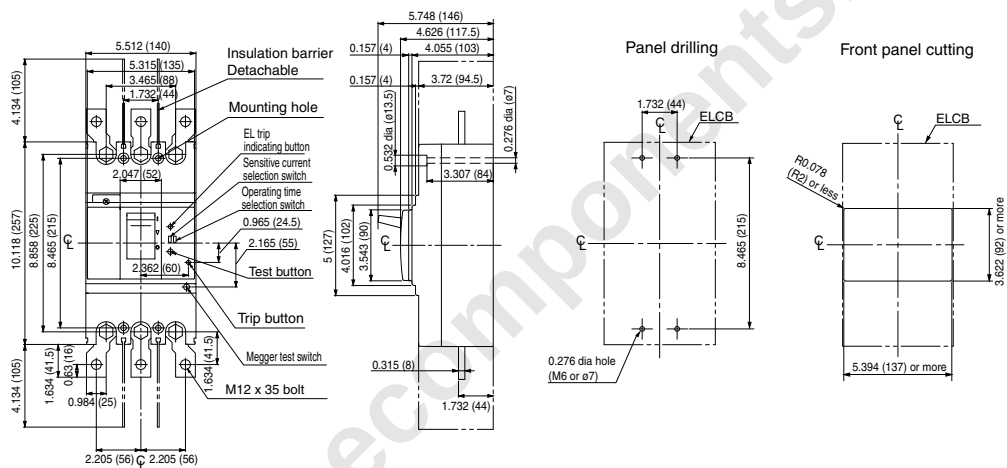


Dimensions: inch (mm)

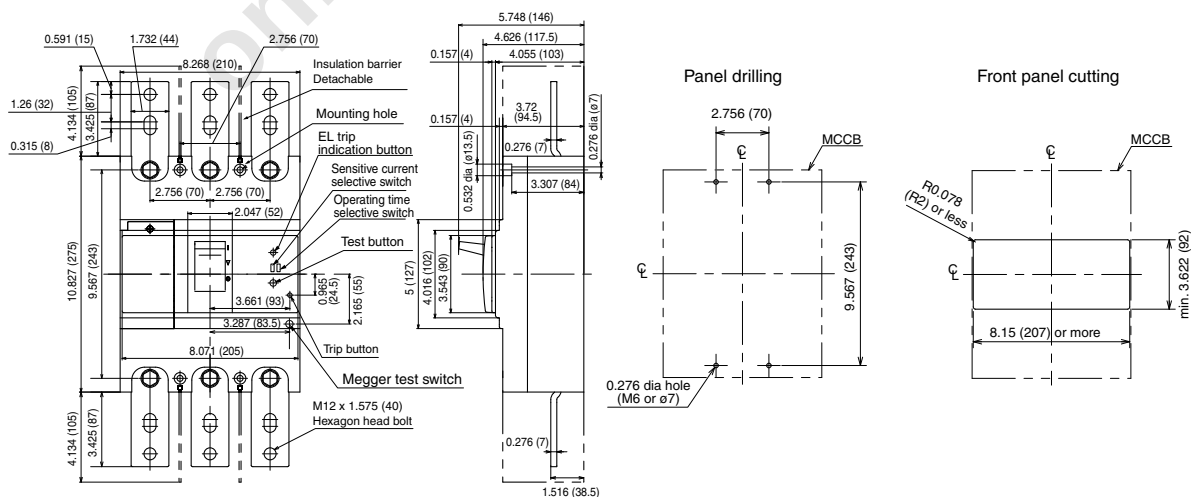
EW250*U-3P



EW400*U-3P

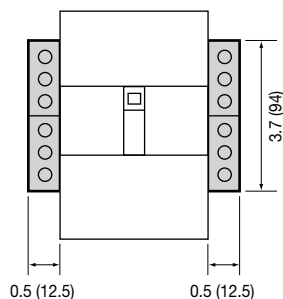


EW630RAGU-3P

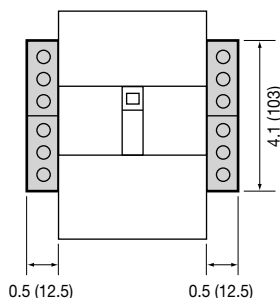


Dimensions of Terminal Blocks for Internal Accessories: inch (mm)

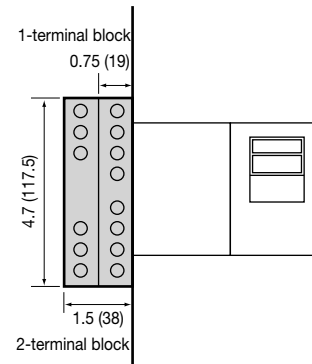
50, 100A Frame



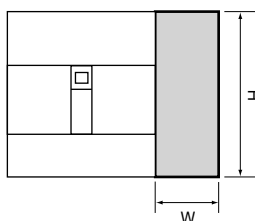
125, 250A Frame



400, 630, 800A Frame

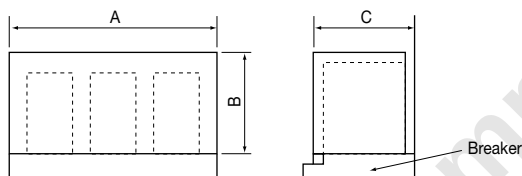


Dimensions of Undervoltage/Shunt trip device
50 and 100AF Only



Breakers	W x H
BW50RAGU-2P, BW100EAGU-2P	1.0 (25) x 3.94 (100)
BW50RAGU-3P, BW100EAGU-3P EW50RAGU, EW100EAGU	1.0 (25) x 3.94 (100)

Dimensions of Terminal Covers: inch (mm)



Type			Dimensions: Inch(mm)			Applicable Breakers
Black	Transparent	Gray-white	A	B	C	
–	BW9BTAA-S2 (Short)	BW9BTAA-S2W ** (Short)	1.969 (50)	0.386 (9.8)	2.106 (53.5)	BW50RAGU-2P, BW100EAGU-2P
–	BW9BTAA-L2 (Long)	BW9BTAA-L2W (Long)	1.969 (50)	1.575 (40)	2.106 (53.5)	
–	BW9BTAA-S3 (Short)	BW9BTAA-S3W** (Short)	2.953 (75)	0.386 (9.8)	2.106 (53.5)	BW50RAGU-3P, BW100EAGU-3P EW50RAGU-3P, EW100EAGU-2P
–	BW9BTAA-L3 (Long)	BW9BTAA-L3W (Long)	2.953 (75)	1.575 (40)	2.106 (53.5)	
–	BW9BTCA-S2 (Short)	BW9BTCA-S2W** (Short)	2.362 (60)	0.315 (8)	2.618 (66.5)	BW125*U-2P
–	BW9BTCA-L2 (Long)	BW9BTCA-L2W (Long)	2.362 (60)	1.575 (40)	2.618 (66.5)	
–	BW9BTCA-S3 (Short)	BW9BTCA-S3W** (Short)	3.543 (90)	0.315 (8)	2.618 (66.5)	BW125*U-3P EW125*U-3P
–	BW9BTCA-L3 (Long)	BW9BTCA-L3W (Long)	3.543 (90)	1.575 (40)	2.618 (66.5)	
–	BW9BTGA-S3 (Short)	BW9BTGA-S3W** (Short)	4.134 (105)	0.315 (8)	2.618 (66.5)	BW250*U-2P, BW250*U-3P EW250*U-3P
–	BW9BTGA-L3 (Long)	BW9BTGA-L3W (Long)	4.134 (105)	1.969 (50)	2.618 (66.5)	
–	BW9BTHA-S3 (Short)	BW9BTHA-S3W (Short)	5.512 (140)	2.559 (65)	3.858 (98)	BW400*U-2P, BW400*U-3P EW400*U-3P
–	BW9BTHA-L3 (Long)	BW9BTHA-L3W (Long)	6.772 (172)	4.331 (110)	3.858 (98)	
–	BW9BTJA-L3 (Long)	BW9BTJA-L3W (Long)	8.268 (210)	6.102 (155)	3.858 (98)	BW630*U-3P, BW800*U-3P EW630*U-3P

**A Gray-white terminal cover provided with BW50□U, BW100□U, BW125□U, BW250□U, EW100□U, EW125□U, EW250□U amp frame.

Internal Accessories for G-TWIN

50,100AF

Breaker type: BW50, BW100, EW50, EW100

Auxiliary switches and alarm switches

Lead wire type		BW50RAGU, EW50RAGU BW100EAGU, EW100EAGU	
		Left side	Right side
Aux	W	BZ6WL10CU*1	BZ6WR10CU
Aux low current	WD	BZ6WDL10CU*1	BZ6WDR10CU
Alarm	K	BZ6KL10CU*1	BZ6KR10CU
Alarm low current	KD	BZ6KDL10CU*1	BZ6KDR10CU
Aux & Alarm	WK	BZ6WKL10CU*1	BZ6WKR10CU
Aux & Alarm low current	WDKD	BZ6WDKDL10CU*1	BZ6WDKDR10CU

*1 for 3 pole type only

With terminal block type		BW50RAGU, EW50RAGU BW100EAGU, EW100EAGU	
		Left side	Right side
Aux	W	BZ6WL10CAU*1	BZ6WR10CAU
Aux low current	WD	BZ6WDL10CAU*1	BZ6WDR10CAU
Alarm	K	BZ6KL10CAU*1	BZ6KR10CAU
Alarm low current	KD	BZ6KDL10CAU*1	BZ6KDR10CAU
Aux & Alarm	WK	BZ6WKL10CAU*1	BZ6WKR10CAU
Aux & Alarm low current	WDKD	BZ6WDKDL10CAU*1	BZ6WDKDR10CAU

*1 for 3 pole type only

Rating

Standard; Aux, Alarm

Breaker type	BW50RAGU, EW50RAGU BW100EAGU, EW100EAGU	Minimum load
Operating voltage	Rated current (A)	
120V AC	3.6	5V DC 160mA 30V DC 30mA
240V AC	1.8	
125V DC	0.55	
250V DC	0.27	

For low current; Aux, Alarm

Breaker type	BW50RAGU, EW50RAGU BW100EAGU, EW100EAGU	Minimum load
Operating voltage	Rated current (A)	
30V DC	0.1	5V DC 1mA 30V DC 1mA

Operation

Type of switch	Condition of MCCB	
	ON	OFF
Auxiliary switch (W)		
Alarm switch (K)		

Shunt trip devices

Breaker type	Operating voltage	Code	Part number		Spec		
			Lead wire type	With terminal block type	Input (VA)	Internal circuit	Time rating (ms)
BW50RAGU BW100EAGU	24VAC, 24VDC	FR	BZ6FR10CU	BZ6FR10CAU	150	Continuous with burnout prevention circuit	7-13
	100-120VAC 100-110VDC	FA	BZ6FA10CU	BZ6FA10CAU	150		
	200-240VAC	FK	BZ6FK10CU	BZ6FK10CAU	150		
	380-450VAC	FP	BZ6FP10CU	BZ6FP10CAU	200		
EW50RAGU EW100EAGU	100VAC 50Hz	F2	—	BZ6F210CAU	16	Continuous	7-13
	100-110VAC 60Hz						
	200VAC 50Hz	F7	—	BZ6F710CAU	16		
	200-220VAC 60Hz						
	400VAC 50Hz	F8	—	BZ6F810CAU	22		

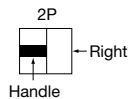
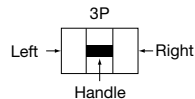
Undervoltage trip devices

Breaker type	Operating voltage	Code	Part number		Spec	
			Lead wire type	With terminal block type	Input (VA)	Operating voltage
BW50RAGU BW100EAGU	100VAC 50Hz	R2	—	BZ6R210CAU	3	Tripping voltage: 70% to 35% of rated voltage
	100-110VAC 60Hz					
EW50RAGU EW100EAGU	200VAC 50Hz	RW	—	BZ6RW10CAU	3	Closing voltage: 85% or more of rated voltage
	200-220VAC 60Hz					
EW50RAGU EW100EAGU	400VAC 50Hz	R9	—	BZ6R910CAU	4	
	400-440VAC 60Hz					

Internal Accessory Combinations for G-TWIN

50,100AF

Breaker type: BW50, BW100, EW50, EW100



○ Auxiliary switch: W

□ Shunt trip: F

▭ Shunt trip: F (External mounting method)

● Alarm switch: K

■ Undervoltage trip: R

MCCB	BW50RAGU-2P BW100EAGU-2P	BW50RAGU-3P BW100EAGU-3P
Pole	2	3
Auxiliary switch SPDT W		
Alarm switch SPDT K		
Shunt trip F		
Undervoltage trip R		
W2	N/A	
W+K		
W2+K	N/A	
K2	N/A	
W+K2	N/A	
W2+K2	N/A	
W+F	N/A	
W2+F	N/A	N/A
W+R		
W2+R	N/A	
K+F	N/A	
K+R		
W+K+F	N/A	
W+K+R		
K2+F	N/A	N/A
K2+R	N/A	
W2+K+F	N/A	N/A
W2+K+R	N/A	
W+K2+F	N/A	N/A
W+K2+R	N/A	
W2+K2+F	N/A	N/A
W2+K2+R	N/A	

ELCB	EW50RAGU-3P EW100EAGU-2P EW100EAGU-3P
Pole	2, 3
Auxiliary switch SPDT W	
Alarm switch SPDT K	
Shunt trip F	
Undervoltage trip R	
W2	
W+K	
W2+K	
K2	
W+K2	
W2+K2	
W+F	
W+R	
W2+R	
K+F	
K+R	
K2+R	
W+K+F	
W+K+R	
W2+K+R	
W+K2+R	
W2+K2+R	

Internal Accessories for G-TWIN

125, 250AF

Breaker type: BW125, EW125, BW250, EW250

Accessory	Code	Part number				Operating vltage
		Lead wire type		With terminal block type		
		Left side	Right side	Left side	Right side	
Auxiliary switch	W	BW9W1SG0	BW9W1SG0-R	BW9W1SG0-A	BW9W1SG0-RA	–
Auxiliary switch (low current)	1	BW9W1DG0	BW9W1DG0-R	–	–	
Alarm switch	K	BW9K1SG0	BW9K1SG0-R	BW9K1SG0-A	BW9K1SG0-RA	
Alarm switch (low current)	8	BW9K1DG0	BW9K1DG0-R	–	–	
Auxiliary switch + Alarm switch	WK	BW9WKSG0	BW9WKSG0-R	BW9WKSG0-A	BW9WKSG0-RA	
Auxiliary switch + Alarm switch (low current)	18	BW9WKDG0	BW9WKDG0-R	–	–	
Earth alarm switch* ¹	L	–	BW9L1SG0	–	–	
Shunt trip device	FR	BW9FRG0	BW9FRG0	–	BW9FRG0-RA	24V AC/DC
	FS	BW9FSG0	BW9FSG0		BW9FSG0-RA	48V AC/DC
	FA	BW9FAG0	BW9FAG0		BW9FAG0-RA	100-120V AC/100-110V DC
	F1	BW9F1G0	BW9F1G0		BW9F1G0-RA	120-130V AC
	FK	BW9FKG0	BW9FKG0		BW9FKG0-RA	200-240V AC/200-220V DC
	FB	BW9FBG0	BW9FBG0		BW9FBG0-RA	277V AC
	FP	BW9FPG0	BW9FPG0		BW9FPG0-RA	380-440V AC
	FH	BW9FHG0	BW9FHG0		BW9FHG0-RA	440-480V AC
	FJ	BW9FJG0	BW9FJG0		BW9FJG0-RA	500-550V AC
Undervoltage trip device	RR	BW9RGAR	–	–	–	24V DC
	RS	BW9RGAS			48V DC	
	RL	BW9RGAL			100-110V DC	
	R5	BW9RGA5			125V DC	
	RA	BW9RGAA			100-110V AC	
	RT	BW9RGAT			110-130V AC	
	RK	BW9RGAK			200-240V AC	
	RB	BW9RGAB			277V AC	
	RP	BW9RGAP			380-415V AC	
	RH	BW9RGAH	440-480V AC			

*¹ for ELCB only

400, 630, 800AF

Breaker type: BW400, EW400, BW630, EW630, BW800

Accessory	Code	Part number		Operating vltg
		Lead wire type	With terminal block type	
		Left side	Left side	
Auxiliary switch x 1	W	BW9W1SHA	BW9W1SHA-A	—
Auxiliary switch x 2	V	BW9W2SHA	—	
Auxiliary switch (low current) x 1	1	BW9W1DHA	—	
Auxiliary switch (low current) x 2	2	BW9W2DHA	—	
Alarm switch x 1	K	BW9K1SHA	BW9K1SHA-A	
Alarm switch x 2	J	BW9K2SHA	—	
Alarm switch (low current) x 1	8	BW9K1DHA	—	
Alarm switch (low current) x 2	9	BW9K2DHA	—	
Shunt trip device	FR	BW9FHA-R	BW9FHA-RA	24-48V AC/DC
	FA	BW9FHA-A	BW9FHA-AA	100-240V AC/100-220V DC
	FB	BW9FHA-B	BW9FHA-BA	277V AC
	FP	BW9FHA-P	BW9FHA-PA	380-550V AC
Undervoltage trip device	RR	BW9RHA-R	—	24V AC/DC
	RS	BW9RHA-S		48V AC/DC
	RA	BW9RHA-A		100-110 AC/DC
	R1	BW9RHA-1		120-130V AC/125V DC
	RK	BW9RHA-K		200-240V AC/200-220V DC
	RB	BW9RHA-B		277V AC
	RP	BW9RHA-P		380-480V AC

Internal Accessories for G-TWIN

Operation of auxiliary switches (W) and alarm switches (K)

Accessory	Handle position	
	ON	OFF Trip
Auxiliary switch	SPDT: W (1) 	
	2PDT: V (2) 	
Alarm switch	SPDT: K (8) 	
	2PDT: J (9) 	

Note: Wire ring mark indication
() Code of low current type

Operation of earth alarm switch (L)

Accessory	Handle position	
	ON/OFF/Overcurrent trip	EL trip
Earth alarm switch L		

Ratings of auxiliary switches (W) and alarm switches (K)

Standard type

Breaker type	Rated thermal current (A)	Make/break current (A)						Minimum load current
		AC			DC			
		Voltage (V)	Res. load	Ind. load	Voltage (V)	Res. load	Ind. load	
BW125, BW250	5	24	5	5	24	4	3	5V DC 160mA
BW400								
BW630		48	5	5	48	2.5	1	30V DC 30mA
BW800								
EW125, EW250		125	5	3	125	0.4	0.4	
EW400								
EW630		250	3	2	250	0.2	0.2	

Low current type

Breaker type	Rated thermal current (A)	Make/break current (A)				Minimum load current
		AC		DC		
		Voltage (V)	Res. load	Voltage (V)	Res. load	
BW125, BW250 BW400 BW630 BW800 EW125, EW250 EW400, EW630	0.1	30	0.1	30	0.1	5V DC 1mA

Internal Accessories for G-TWIN

Rating of shunt trip (F)

Breaker type	AC		DC		Time rating of coil	Opening time (ms)
	V	VA	V	W		
BW125, BW250 EW125, EW250	24	50	24	50	Continuous (With 1NO contact to prevent coil burn-out)	13-21
	48	50	48	50		
	100-120	50	100-110	50		
	120-130	50	—	—		
	200-240	50	200-220	50		
	277	50	—	—		
	380-440	50	—	—		
	440-480	50	—	—		
BW400, BW630, BW800 EW400, EW630	500-550	50	—	—	Continuous	8-20
	24-48	2	24-48	2		
	100-240	3	100-220	3		
	277	3	—	—		
	380-550	4	—	—		

Note: Allowable voltage function AC voltage: 85% to 110% of coil rated voltage
DC voltage: 75% to 125% of coil rated voltage

Rating of undervoltage trip (R)

Breaker type	AC		DC		Code
	V	VA	V	W	
BW125 *1	—	—	24	5	RR
BW250 *1	—	—	48	5	RS
EW125 *1	—	—	100-110	5	RL
EW250 *1	—	—	125	5	R5
	100-110	5	—	—	RA
	110-130	5	—	—	RT
	200-240	5	—	—	RK
	277	5	—	—	RB
	380-415	5	—	—	RP
	440-480	5	—	—	RH
BW400 *2	24	2	24	2	RR
EW400 *2	48	2	48	2	RS
BW630 *2	100-110	3	100-110	3	RA
EW630 *2	120-130	3	125	3	R1
BW800 *2	200-240	3	200-220	3	RK
	277	3	—	—	RB
	380-480	4	—	—	RP

Note: Allowable voltage function AC voltage: 85% to 110% of coil rated voltage
DC voltage: 75% to 125% of coil rated voltage

*1 Reset-allowed type: When the breaker handle is in the OFF or RESET state, tripping does not occur even if the R coil is not energized.
Turning ON with the R coil not energized causes normal tripping.

*2 Reset-prohibited type: When the R coil is not energized, reset operation cannot reset the tripped breaker to the OFF state.

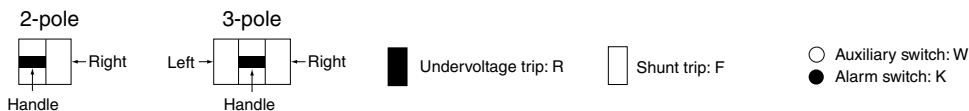
Lead wire specification

Wire size: AWG20 (0.5mm²)

Wire length: 19.69 inch (500mm)

Internal Accessory Combinations for G-TWIN MCCB

Available configurations

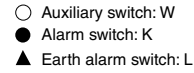
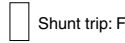
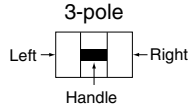
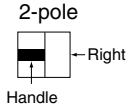


MCCB	BW125JAGU-2P	BW125 BW250 (Except for BW125JAGU-2P)	BW400 BW630 BW800
Pole	2	2, 3	2, 3
Auxiliary switch SPDT: W (1)			
Alarm switch SPDT: K (8)			
Shunt trip: F			
Undervoltage trip: R			
W+K (1+8)			
Auxiliary switch 2PDT: V (2)			
Alarm switch 2PDT: J (9)			
V+K (2+8)			
W+J (1+9)			
V+J (2+9)			
W+F (1+F)			
W+R (1+R)			
K+F (8+F)			
K+R (8+R)			
W+K+F (1+8+F)			
W+K+R (1+8+R)			
V+F (2+F)			
V+R (2+R)			
J+F (9+F)			
J+R (9+R)			
V+K+F (2+8+F)			
V+K+R (2+8+R)			
W+J+F (1+9+F)			
W+J+R (1+9+R)			
V+J+F (2+9+F)			
V+J+R (2+9+R)			

Notes: • The above table is applied to front mounting type, rear mounting type, flush mounting type, and plug-in mounting type.
• Terminal block is attached on the same side of the accessory.
• () Code of low level circuit

Internal Accessory Combinations for G-TWIN ELCB

Available configurations



ELCB	EW125 EW250	EW400 EW630
Pole	3	3
Auxiliary switch SPDT: W (1)		
Alarm switch SPDT: K (8)		
Shunt trip: F		
Undervoltage trip: R		
W+K (1+8)		
Auxiliary switch 2PDT: V (2)		
Alarm switch 2PDT: J (9)		
V+K (2+8)		
W+J (1+9)		
V+J (2+9)		
W+F (1+F)		
W+R (1+R)		
K+F (8+F)		
K+R (8+R)		
W+K+F (1+8+F)		
W+K+R (1+8+R)		
V+F (2+F)		
V+R (2+R)		
J+F (9+F)		
J+R (9+R)		
V+K+F (2+8+F)		
V+K+R (2+8+R)		
W+J+F (1+9+F)		
W+J+R (1+9+R)		
V+J+F (2+9+F)		
V+J+R (2+9+R)		
Earth alarm switch SPDT: L*1		

Notes: • The above table is applied to front mounting type, rear mounting type, flush mounting type, and plug-in mounting type.

• Terminal block is attached on the same side of the accessory.

• () Code of low level circuit

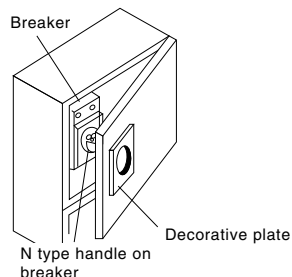
*1 Earth alarm switch can be mounted regardless of the combination of other accessories.

External Accessories

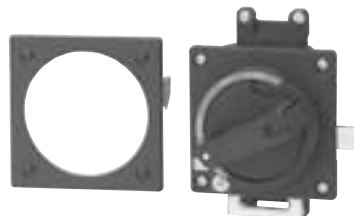
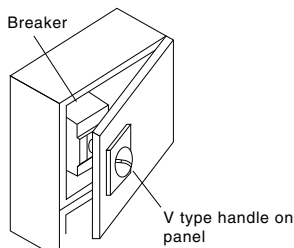
Operating handles

Conforms to EN60947-1 isolation function.
Available for EN60204-1 power breaking device.
Conforms to UL489(File No. E93289)

N type handles



V type handles



BW9N0CA
N type handle



BW9V0CA
V type handle

Part number		Applicable Breakers
N type (Breaker mount)	V type (Door mount)	
BZ6N10D	BZ6V10D	BW50RAGU, BW100EAGU, EW50RAGU, EW100EAGU
BW9N0CA	BW9V0CA	BW125*1, EW125
BW9N0GA	BW9V0GA	BW250, EW250
BW9N0HA	BW9V0HA	BW400, EW400
BW9N0JA	BW9V0JA	BW630, EW630, BW800

*1 Note that the external operating handle cannot be mounted to the BW125JAGU-2P. Use the BW125RAGU-2P.

Terminal covers

These terminal covers are used as guards to prevent accidental touch with live line terminations.
These terminal covers can be fitted to either line or load side.



Short type



Long type

Short type

Black	Transparent	Gray-White	Packing QTY	Applicable Breakers
-	BW9BTAA-S2	BW9BTAA-S2W*1	2	BW50RAGU-2P, BW100EAGU-2P
-	BW9BTAA-S3	BW9BTAA-S3W*1	2	BW50RAGU-3P, BW100EAGU-3P, EW50RAGU-3P, EW100EAGU
-	BW9BTCA-S2	BW9BTCA-S2W*1	2	BW125JAGU-2P
-	BW9BTCA-S3	BW9BTCA-S3W*1	2	BW125JAGU-3P, EW125*U-3P
-	BW9BTGA-S3	BW9BTGA-S3W*1	2	BW250*U-2P, BW250*U-3P, EW250*U-3P
-	BW9BTHA-S3*2	BW9BTHA-S3W*2	2	BW400*U-2P, BW400*U-3P, EW400*U-3P

Notes: *1 Gray-white short type terminal covers are provided with breaker as standard for 50AF, 100AF, 125AF and 250AF G-TWIN breakers.

*2 Not available with Flat terminal.

Long type

Black	Transparent	Gray-White	Packing QTY	Applicable Breakers
-	BW9BTAA-L2	BW9BTAA-L2W	2	BW50RAGU-2P, BW100EAGU-2P
-	BW9BTAA-L3	BW9BTAA-L3W	2	BW50RAGU-3P, BW100EAGU-3P, EW50RAGU-3P, EW100EAGU
-	BW9BTCA-L2	BW9BTCA-L2W	2	BW125JAGU-2P
-	BW9BTCA-L3	BW9BTCA-L3W	2	BW125*U-3P, EW125*U-3P
-	BW9BTGA-L3	BW9BTGA-L3W	2	BW250*U-2P, BW250*U-3P, EW250*U-3P
-	BW9BTHA-L3	BW9BTHA-L3W	2	BW400*U-2P, BW400*U-3P, EW400*U-3P
-	BW9BTJA-L3	BW9BTJA-L3W	2	BW630*U-3P, EW630*U-3P, BW800*U-3P

External Accessories

Insulation barriers

The barriers are installed in the molded slots between terminals. Installation of these barriers after wiring is possible even when an external accessory is installed.



Insulation barriers		Applicable Breakers
Type	Packing quantity	
BZ6B10C	4	BW50RAGU, BW100EAGU, EW50RAGU, EW100EAGU* ¹
BW9BPCA	4	BW125, EW125* ²
BW9BPGA	4	BW250, EW250* ²
B-43A	4	BW400, EW400, BW630, EW630, BW800* ²

Note: *¹ Insulation Barriers are required only for flat terminal type.

*² Insulation Barriers for line side and load side are provided with the Breaker.

Terminal kits (Field installable)

Flat Terminal Kits		Lug Terminal Kits		Applicable Breakers
Type	Packing quantity	Type	Packing quantity	
BZ-SU20B	3	-	-	BW50RAGU, EW50RAGU
BU-SU25B	3	-	-	BW100EAGU, EW100EAGU
BW9SS0CA-3 GLOBAL	3	BW9SL0CA-3 GLOBAL	3	BW125, EW125
BZ-S50B-2253 GLOBAL	3	BW9SL0GA-3 GLOBAL	3	BW250, EW250 (125A-175A)
		BW9SL1GA-3 GLOBAL	3	BW250, EW250 (200A-250A)

Padlocking device and Handle locking cover

Description

• Padlocking device

These padlocking devices lock the breaker handle in the OFF position.

Use a commercially available padlock with a shackle diameter of 3.5 to 5mm (5mm for the BZ6L10CA).

• Handle locking cover

These padlocking devices lock the breaker handle in the ON/OFF position.

Tripping is possible while the breaker is locked ON.

Applicable Breakers	Padlocking device		Handle locking cover
	Q1, QN: Cap type	Q2: Plate type	
BW50, BW100, EW50, EW100	BZ6L10CA	Not available	BZ6L10C* ¹
BW125, EW125	BW9Q1CA	BW9Q2CA	Not available
BW250, EW250	BW9Q1CA	BW9Q2GA	Not available
BW400, EW400	BW9QNHA* ¹	BW9Q2HA	Not available
BW630, EW630, BW800	BW9QNHA* ¹	BW9Q2JA	Not available

*¹ ON and OFF locking is possible

Padlocking device for BW and EW

Cap type Q1, QN

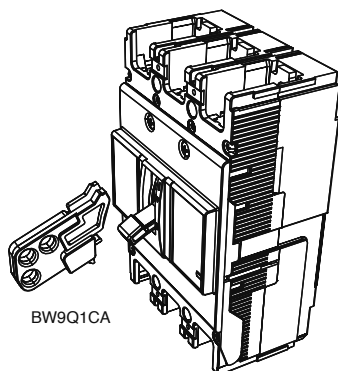
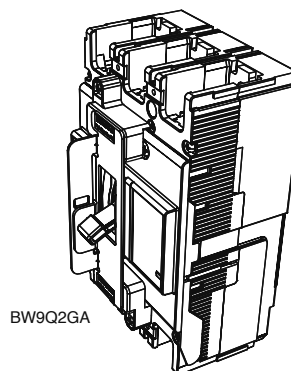
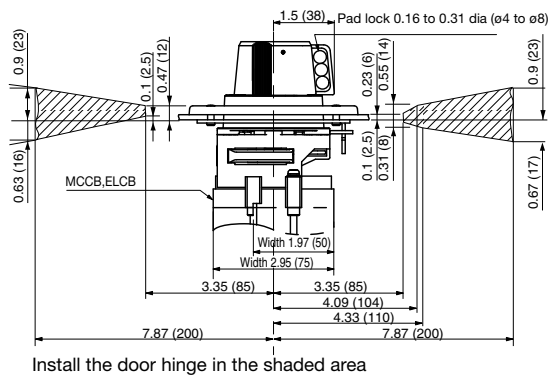
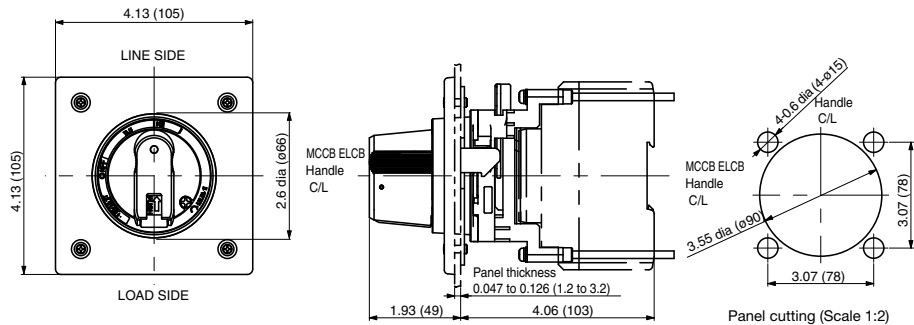


Plate type Q2



Operating Handles Dimensions: inch (mm)

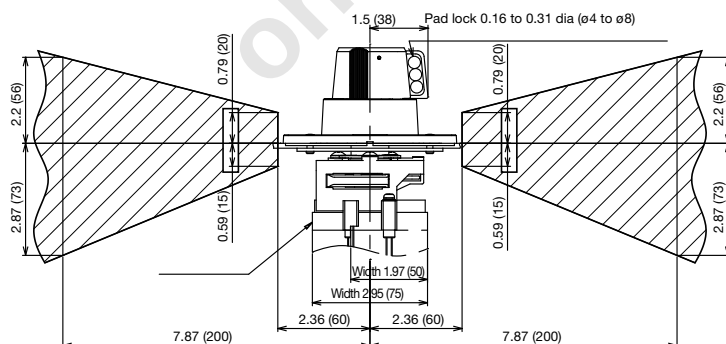
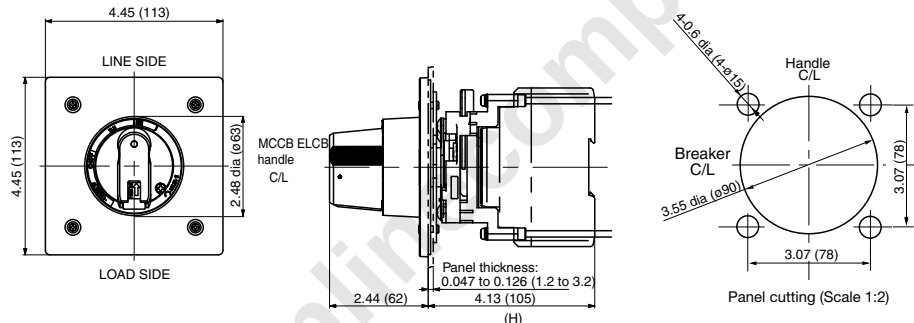
50A,100A Frame N type handle (BZ6NP1D: dust proof packing, optional)



Handle type	Applicable Breakers	Mounting screw
BZ6N10D	BW50RAGU, EW50RAGU BW100EAGU EW100EAGU	#8-32x3.149 M4x80

Note: When using a Dust-proof packing, handle protection structure is IP 50 (IEC 60529, JIS C0920).

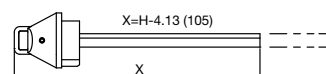
50A,100A Frame V type handle (BZ6VS1D: optional shaft)



Handle type	Applicable Breakers	Dimensions: inch (mm)	
		Standard	with the optional shaft
BZ6V10D	BW50RAGU EW50RAGU BW100EAGU EW100EAGU	4.13±0.078 (105±2)	5.6 to 9.84 (142 to 250)

Note: Handle protection degree is IP54 (IEC60529, JIS C0920).

Optional shaft (BZ6VS1D)

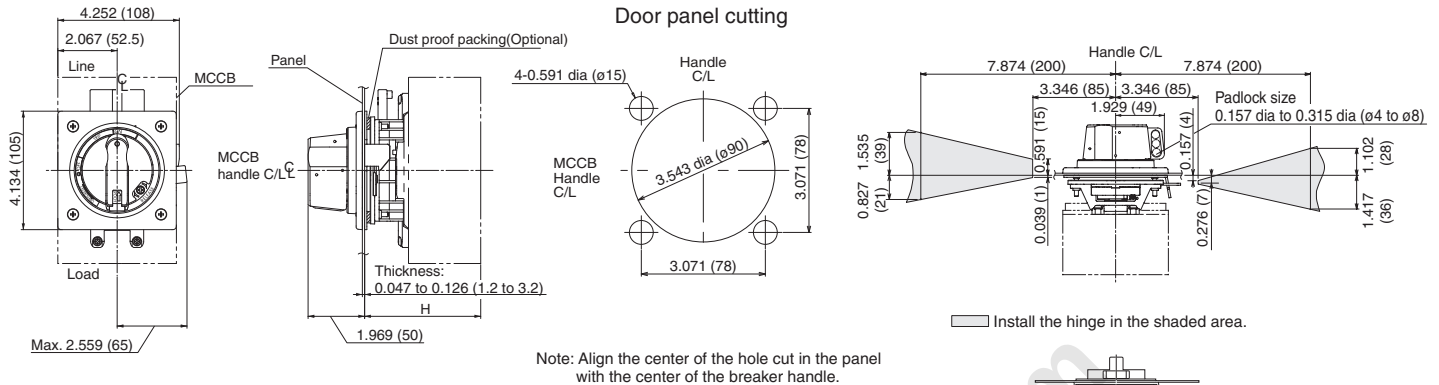


The distance between the handle and breaker can be shortened by cutting the optional shaft (X=H-4.13(105)).

Operating Handles Dimensions: inch (mm)

125A, 250A Frame N type handle

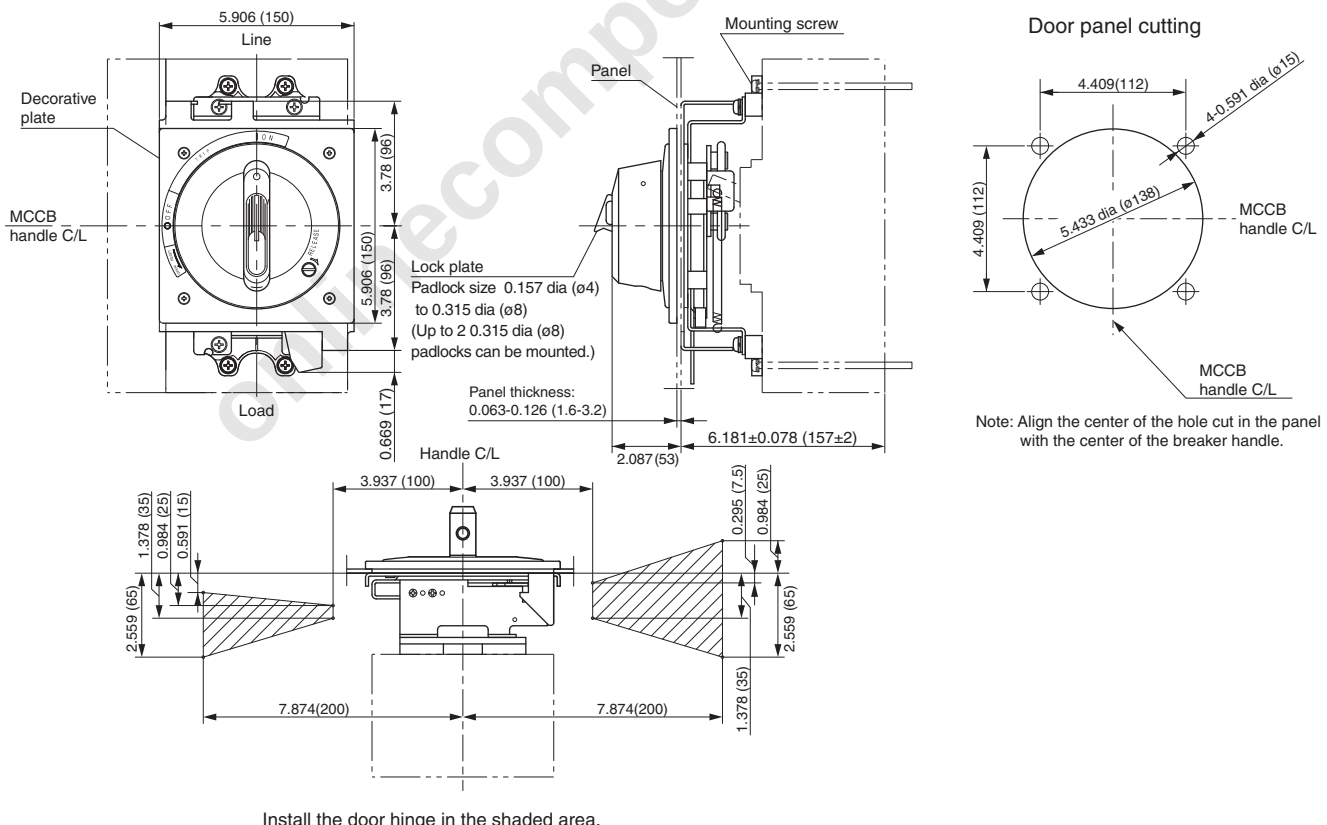
- BW9N0CA, BW9N0GA (BZ-NP-1C: dust proof packing, optional)



Breaker type	Handle type	Mounting screw	H: inch(mm)	Mass lb. (kg)
BW125 EW125	BW9N0CA	M4 x 3.35(85)	4.055±0.078 (103±2)	1.23 (0.56)
BW250 EW250	BW9N0GA	M4 x 3.35(85)	4.055±0.078 (103±2)	1.23 (0.56)

400A, 630A, 800A Frame N type handle

- BW9N0HA, BW9N0JA (BZ-NP-2: dust proof packing, optional)

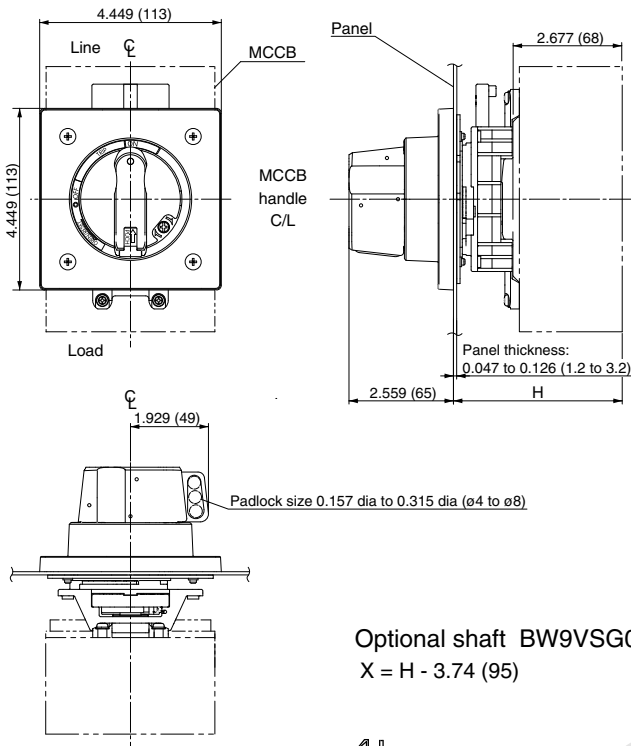


Breaker type	Handle type	Mounting screw	Mass lb. (kg)
BW400, EW400	BW9N0HA	M6 x 4.33 (110)	4.19 (1.9)
BW630, EW630, BW800	BW9N0JA	M6 x 4.33 (110)	4.19 (1.9)

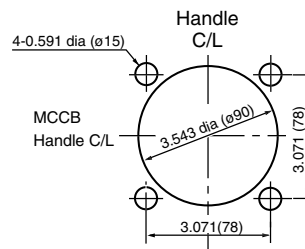
Operating Handles Dimensions: inch (mm)

125A, 250A Frame V type handle

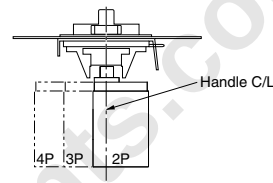
- BW9V0CA, BW9V0GA (BW9VSG0: optional shaft)



Door panel cutting

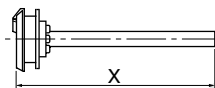


Note: Align the center of the hole cut in the panel with the center of the breaker handle.

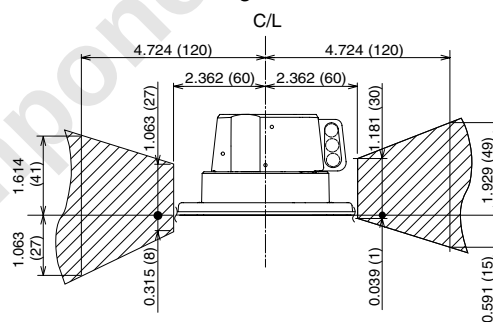


Optional shaft BW9VSG0

$$X = H - 3.74 (95)$$



Door hinge installation area

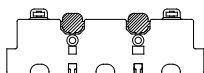


Install the door hinge in the shaded area.

Breaker type	Handle type	Standard type H: inch(mm)	With the optional shaft (X=6.063(154))		Mounting screw	Mass lb. (kg)
			H: inch(mm)	Area in which the hinge with H can be installed		
BW125, EW125*1	BW9V0CA	4.134±0.078 (105±2)	9.843±0.078 (250±2)	5.512 to 9.843 (140 to 250)	M4 x 3.35(85)	1.48 (0.67)
BW250, BW250*1	BW9V0GA	4.134±0.078 (105±2)	9.843±0.078 (250±2)	5.512 to 9.843 (140 to 250)	M4 x 3.35(85)	1.48 (0.67)

Notes:

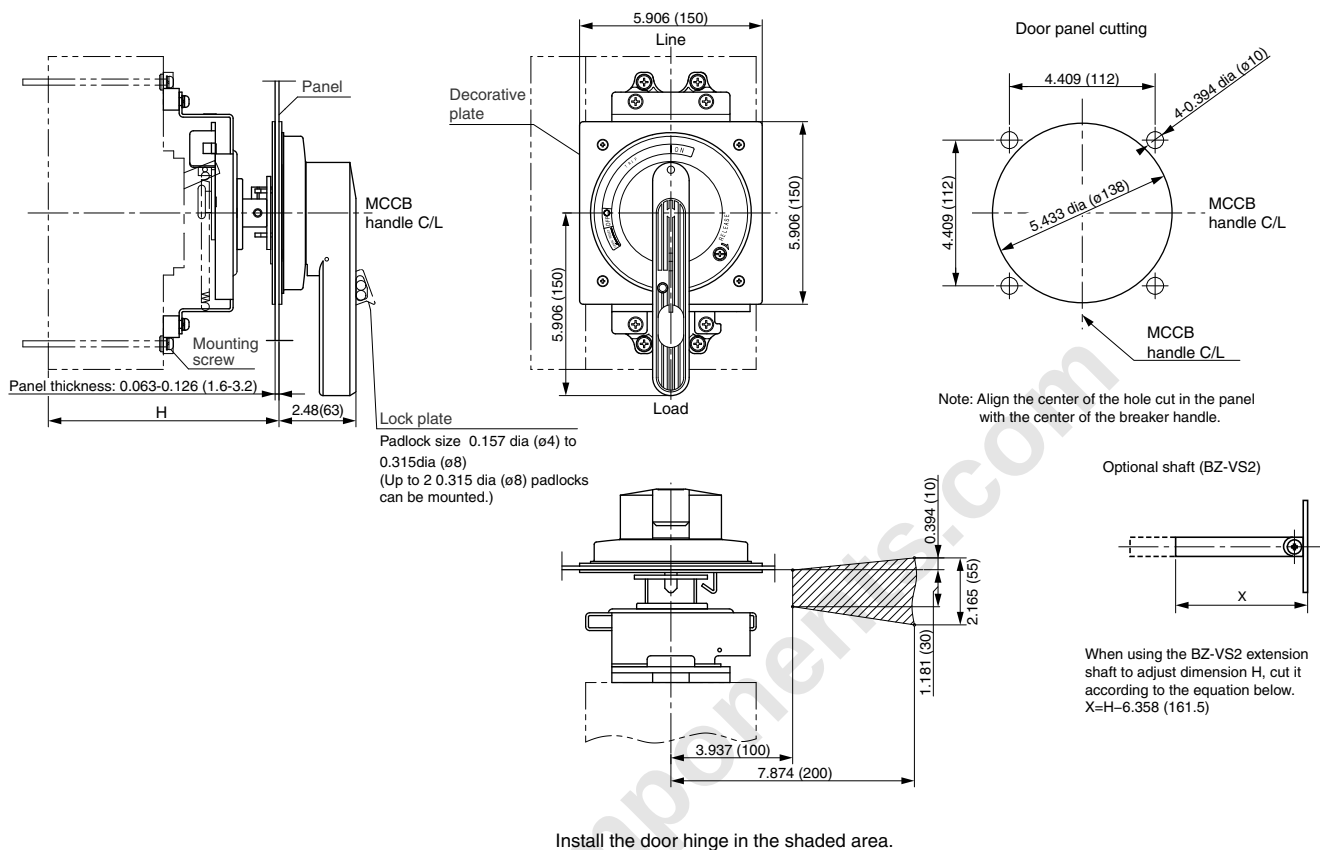
- The handle does not have any means to hold the door. Provide it separately.
- Not available for side mounting.
- *1 Note that the external operating handle cannot be mounted to the BW125JAGU-2P. Use the BW125RAGU-2P.
- *2 When mounting a terminal cover, cut away part of it because it hides the mounting screws for the breaker.
Remove the shaded parts in the figure below.



Operating Handles Dimensions: inch (mm)

400A, 630A, 800A Frame V type handle

- BW9V0HA, BW9V0JA (BZ-VS2: optional shaft)



Breaker type	Handle type	Standard type H: inch(mm)	With the optional shaft (X=6.063 (154))		Mass lb. (kg)
			H: inch(mm)	Area in which the hinge with H can be installed	
BW400, EW400	BW9V0HA	7.48±0.078 (190±2)	9.843±0.078 (250±2)	7.953 to 9.843 (202 to 250)	4.85 (2.2)
BW630, EW630, BW800	BW9V0JA				

Note: • The handle cannot hold the door.
 • Not available for side mounting.

Wiring

1. Connecting Precautions

- When connecting the wires, follow the instruction of NEC (National Electric Code, USA) or CEC (Canadian Electrical code Part 1, Canada).
- For connecting, use copper wire rated for 75°C. It is recommended to use UL or CSA approved wires.
- Keep the connection of the wire sufficiently tight, because a very large electromagnetic force will be generated, when the short circuit current is applied.
- Perform additional tightening of the terminal screws periodically.

2. Terminal Construction

	Screw Terminals	Flat Terminals	Lug Terminals
50A, 100A Frame	●	●	—
125A, 250A Frame	●	●	●
400A, 630A, 800A Frame	—	●	●

● : Available — : Not available

3. Allowable wire spec for Lug Terminals

Number of strands connecting wires

Wire size AWG or MCM (mm ²)	Number of wires strands
14 – 2 (2.1 – 33.6)	7
1 – 4/0 (42.4 – 107.2)	19
250 – 500 (127 – 250)	37

(mm²) Values are those converted from AWG or MCM size

⚠ Caution

- Two wires can not be connected to the lug terminal at once.
- Follow the number of strands of wire indicated in the table.
- Multiconductor wire can not be connected.
- Do not solder the end of the wire.

Max Wire Sizes and Tightening Torque

Type	Rated current (A)	Wire size AWG or MCM (mm ²)	Tightening torque			Applicable ring (crimp) terminal*1		
			Screw terminal	Flat terminal	Lug terminal	JST (UL file No.E42024)	NICHIFU (UL file No.E44245)	DST (UL file No.E74917)
BW50RAGU EW50RAGU	3	14 AWG (2.1mm ²)	20-25 lb.-In. (2.3-2.8 N-m)	31-40 lb.-in. (3.5-4.5 N-m)	-	R2-5	-	-
	5	14 AWG (2.1mm ²)						
	10	14 AWG (2.1mm ²)						
	15	14 AWG (2.1mm ²)						
	20	12 AWG (3.3mm ²)				R5.5-5		
	30	10 AWG (5.3mm ²)						
	40	8 AWG (8.4mm ²)				R8-5		
	50	8 AWG (8.4mm ²)						
BW100EAGU EW100EAGU	60	6 AWG (13.3mm ²)	49-66 lb.-In. (5.5-7.5 N-m)	71-89 lb.-In. (8-10 N-m)		R14-8		
	75	4 AWG (21.1mm ²)				22-S8		
	100	3 AWG (26.7mm ²)				38-S8		
BW125 EW125	15	14 AWG (2.1mm ²)	51 lb. - In. (5.8 N-m)	80 lb. - In. (9 N-m)	51 lb. - In. (5.8 N-m)	R2-8	R2-8	2-8, 2-B8
	20	12 AWG (3.3mm ²)				5.5-S8, R5.5-8	R3.5-8, R5.5-8	3.5-8, 5.5-8
	30	10 AWG (5.3mm ²)					R5.5-8	5.5-8
	40	8 AWG (8.4mm ²)				8-8NS, R8-8	R8-8	8-8
	50							
	60	6 AWG (13.3mm ²)				14-8NS, 14-S8, R14-8	R14-8S, R14-8	14-S8, 14-8
	70	4 AWG (21.1mm ²)				22-S8, R22-8, CB22-S8	R22-8S, R22-8, CB22-8S	22-S8, 22-8, CB22-8
	75							
	80							
	90	3 AWG (26.7mm ²)				38-S8	R38-8S	38-S8
	100							
	125	1 AWG (42.4mm ²)						
BW250 EW250	125	1 AWG (42.4mm ²)	93 lb. - In. (10.5 N-m)	80 lb. - In. (9 N-m)	204 lb. - In. (23 N-m)	38-S8, R38-8	R38-S, R38-8	38-S8, 38-8
	150	1/0 AWG (53.5mm ²)				60-S8, R60-8	R60-8, CB60-8, CB60-8S	60-8, CB60-8
	175	2/0 AWG (67.4mm ²)				70-8	R70-8	70-8
	200	3/0 AWG (85.0mm ²)				CB80-S8	-	CB80-8
	225	4/0 AWG (107.2mm ²)				CB100-S8	-	CB100-8
	250	250 MCM (127mm ²)				CB150-S8	CB150-B	CB150-8
BW400 EW400	250	250 MCM (127mm ²)	-	398 lb. - In. (45 N-m)	385 lb. - In. (43.5 N-m)	150-12	R150-12	-
	300	350 MCM (177mm ²)				180-12	R180-12	-
	350	500 MCM (253mm ²)				325-12	R325-12S	-
	400	3/0 AWG x 2 (85.0mm ² x 2)				282 lb. - In. (31.9 N-m)	R80-12	-
BW630 EW630	500	250-500MCM x 2	-	416 lb. - In. (47.04 N-m)	275 lb. - In. (31.07 N-m)	R150-12	-	R150-12
	600	250-500MCM x 2				180-12	-	R180-12
	630	500MCM x 2				325-12	R325-12N	R325-12*
BW800	700	250-500MCM x 2	-	416 lb. - In. (47.04 N-m)	275 lb. - In. (31.07 N-m)	325-12	-	R325-12*
	800	3/0 AWG-300MCM x 2				-	-	-

Notes: *1 Ring (Crimp) Terminal Manufacturer : JST=Japan Solderless Terminal MFG Co., Ltd. (<http://www.jst.com>)
NICHIFU=Nichifu Terminal Co., Ltd. (america@nichifu.com)
DST=Daido Solderless Terminal MFG Co., Ltd. (info@daido-tanshi.jp)

*2 167°F (75°C) Copper wire

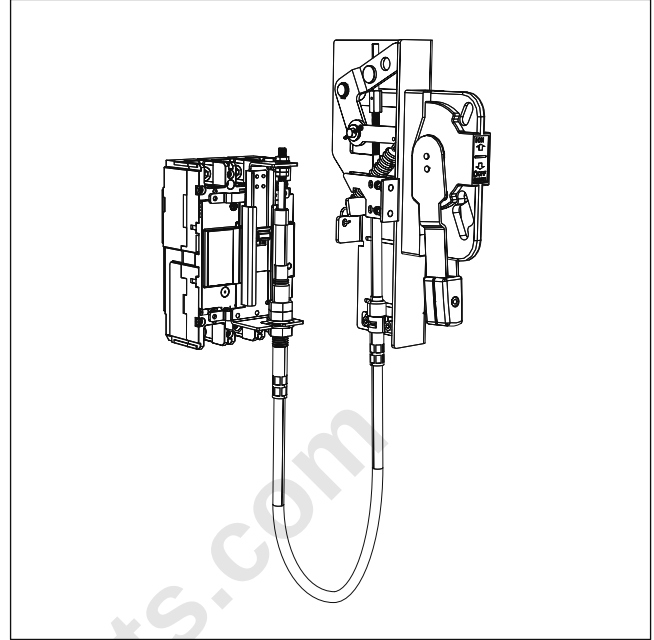
Flange Disconnect Handle <F Type Handle>

Features

Flexible cable operation.
Covering up to 400-amp frame size.
Easy installation on circuit breakers.
Complies with NEMA type 12, IP 54 protection degree.
Accepts ANSI standard American padlock devices.
Off lockable: 0.394 dia (φ10) padlock device, Max 3 pieces.
UL listed product. [UL489, File No. E93289]

Ordering information

Main unit and cable are minimum required for assembling.
Select cable with main unit using below table.
Ex: BW9F0CA, BW9FWCA-15A



Specifications

Applicable breaker frame size		125 amp frame	250 amp frame	400 amp frame	630/800 amp frame
Part numbers	Main unit	BW9F0CA (Not include cable)	BW9F0GA (Not include cable)	BW9F0HA (Not include cable)	BW9F0JA (Not include cable)
	Terminal cover*2	BW9FBTCA-L3	BW9FBTGA-L3	BW9FBTHA-L3	BW9FBTJA-L3
	Cable 59.06 inch (1.5m)	BW9FWCA-15A	BW9FWGA-15A	BW9FWHA-15A	BW9FWHA-15A
	Cable 78.74 inch (2.0m)	BW9FWCA-20A	BW9FWGA-20A	BW9FWHA-20A	BW9FWHA-20A
	Cable 118.11 inch (3.0m)	BW9FWCA-30A	BW9FWGA-30A	BW9FWHA-30A	BW9FWHA-30A
Applicable breakers	MCCB	BW125JAGU*1 BW125RAGU	BW250EAGU BW250JAGU BW250RAGU	BW400EAGU BW400SAGU BW400RAGU BW400HAGU	BW630RAGU BW630HAGU BW800RAGU BW800HAGU
	ELCB	EW125JAGU EW125RAGU	EW250JAGU EW250RAGU	EW400SAGU EW400RAGU	EW630RAGU
Operating instructions		- Operating handle facing up, Breaker is in ON position. - Operating handle facing down, Breaker is in OFF position or is reset. - Panel door cannot be opened when in ON, OFF or Trip position. In order to open the door, the handle must be turned toward reset position. - Release screw is standard. If you want to open a panel door in ON position, please turn on the release screw using flat head screwdriver.			
Mechanical endurance (cycles)		10,000	8,000	6,000	
Ambient temperature		14 to 140F (- 10 to 40°C)			
Relative humidity		less than 95% RH			
Protection		NEMA Type12 IP54 (IEC60529)			
Conforming standards		NFPA 79(2007), ANSI(Lockout), OSHA(1910.147, Lockout/tagout), UL489(cUL)			
Atmosphere		No excessive dust, smoke, corrosive gases, flammable gases, steam or salt.			

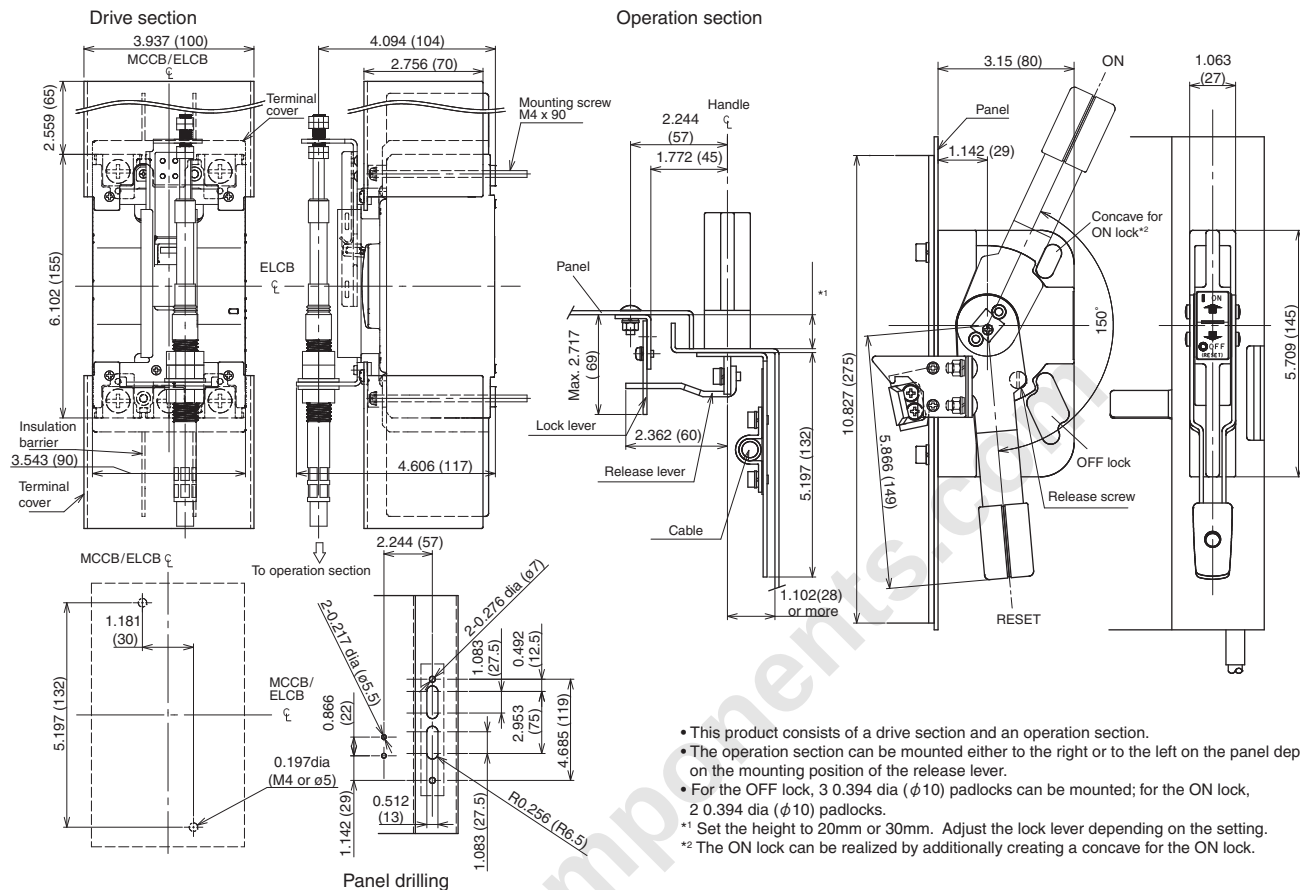
Note: *1 Not available for BW125JAGU-2P

*2 Standards terminal cover in page 27 can not use with Flange Disconnect Handle

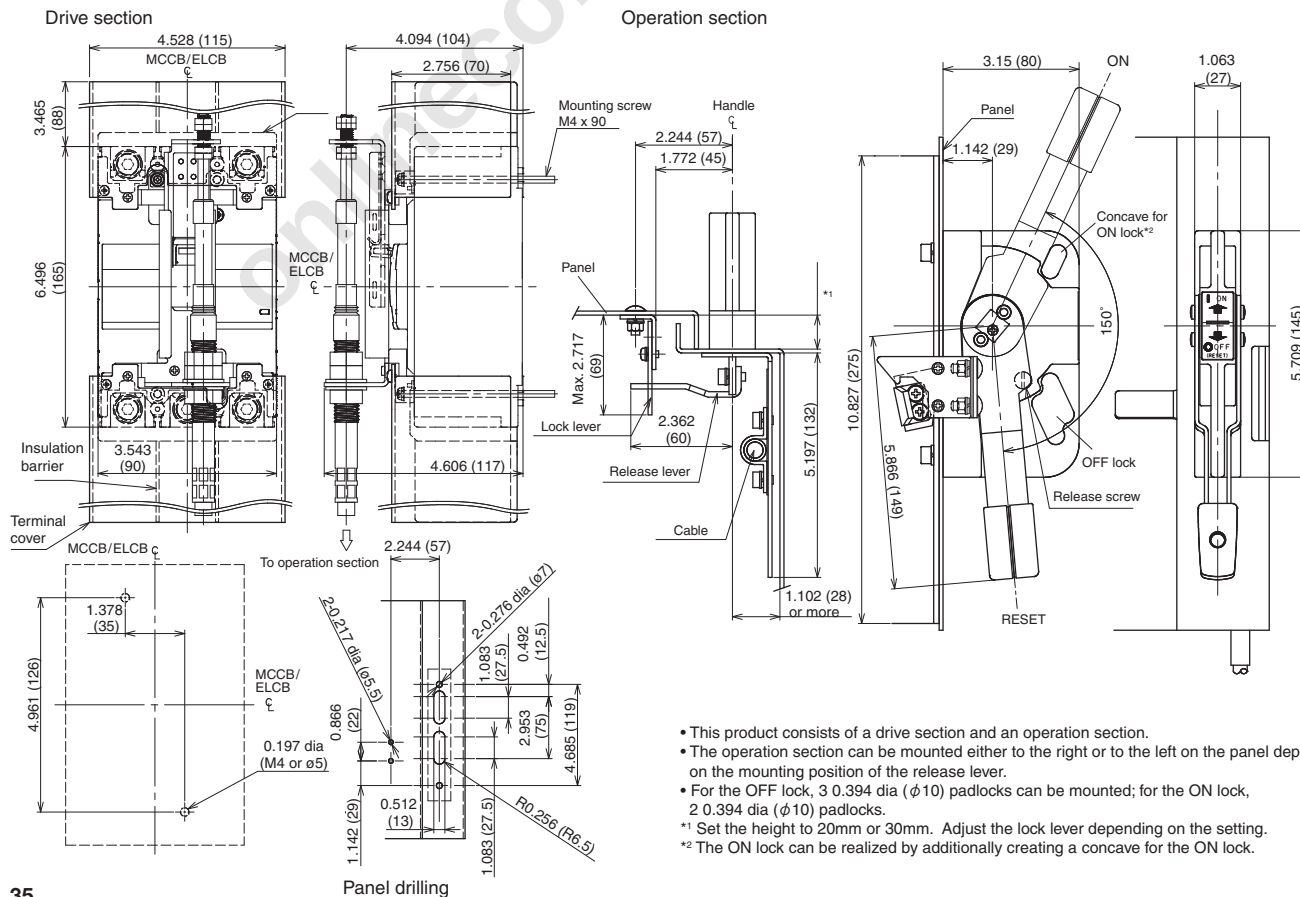
Flange Disconnect Handle <F Type Handle>

Dimensions: inch (mm)

• BW9F0CA



• BW9F0GA

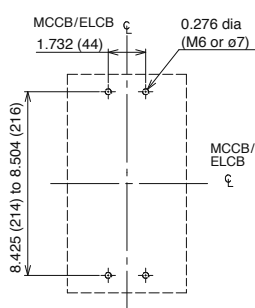
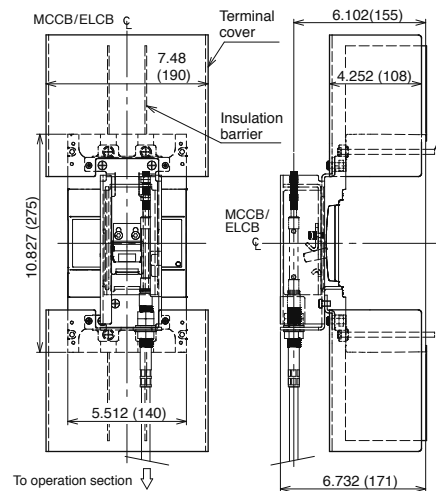


Flange Disconnect Handle <F Type Handle>

Dimensions: inch (mm)

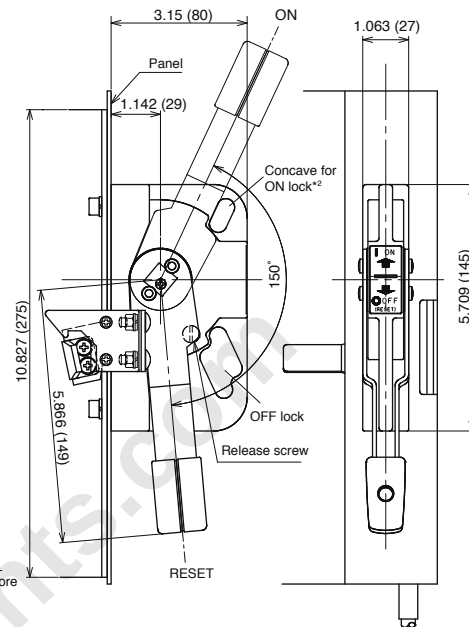
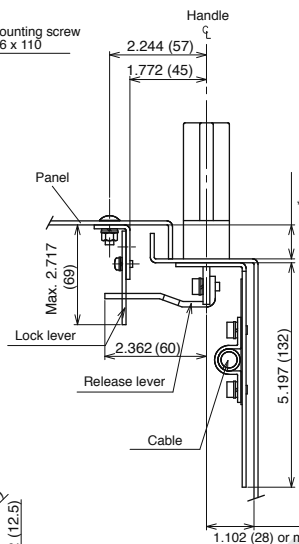
• BW9F0HA

Drive section



Panel drilling

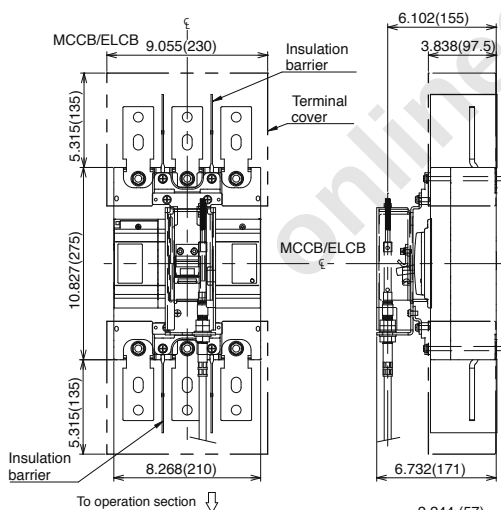
Operation section



- This product consists of a drive section and an operation section.
- The operation section can be mounted either to the right or to the left on the panel depending on the mounting position of the release lever.
- For the OFF lock, 3 0.394 dia (φ10) padlocks can be mounted; for the ON lock, 2 0.394 dia (φ10) padlocks.
- *1 Set the height to 20mm or 30mm. Adjust the lock lever depending on the setting.
- *2 The ON lock can be realized by additionally creating a concave for the ON lock.

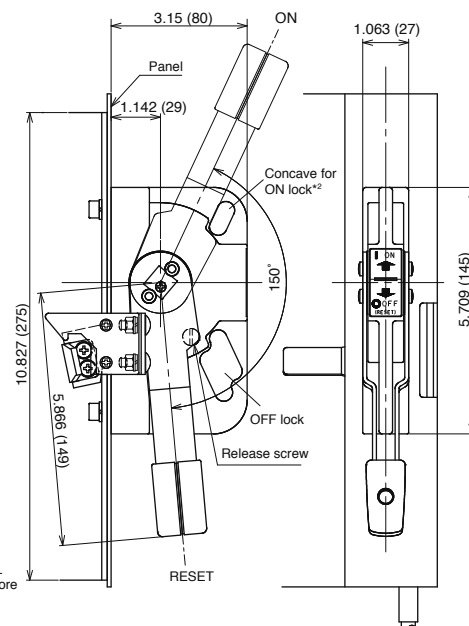
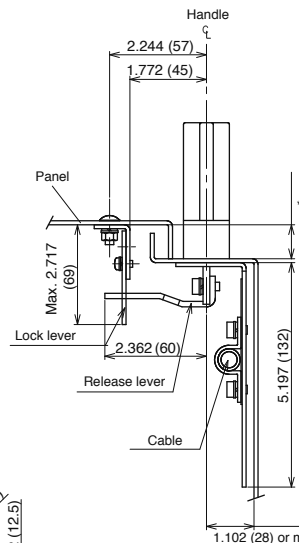
• BW9F0JA

Drive section



Panel drilling

Operation section



- This product consists of a drive section and an operation section.
- The operation section can be mounted either to the right or to the left on the panel depending on the mounting position of the release lever.
- For the OFF lock, 3 0.394 dia (φ10) padlocks can be mounted; for the ON lock, 2 0.394 dia (φ10) padlocks.
- *1 Set the height to 20mm or 30mm. Adjust the lock lever depending on the setting.
- *2 The ON lock can be realized by additionally creating a concave for the ON lock.

Discontinued Products Cross Charts

*1 Scheduled discountinue date : September 30th, 2010

Series	Frame size		Molded Case Circuit Breakers		Earth Leakage Circuit Breakers	
			Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*2	Replacement - UL489 (Non-UL)
E series	30AF*1	2 poles	EA32 (old rep SA52RCUL)	BW50RAGU-2P	EG32F	(EW32AAG-2P)
		3 poles	EA33 (old rep SA53RCUL)	BW50RAGU-3P	EG33F (old rep SG53RCUL)	EW50RAGU-3P
	50AF*1	2 poles	-	-	EG33B (old rep SG53RCUL)	EW50RAGU-3P
			EA52A (old rep SA52RCUL)	BW50RAGU-2P	EG52F	(EW50AAG-2P)
		3 poles	EA52B (old rep SA52RCUL)	BW50RAGU-2P	EGa52A	(EW50AAG-2P)
			EA53A (old rep SA53RCUL)	BW50RAGU-3P	EG53F (old rep SG53RCUL)	EW50RAGU-3P
	60AF*1	2 poles	EA53B (old rep SA53RCUL)	BW50RAGU-3P	EG53B (old rep SG53RCUL)	EW50RAGU-3P
		3 poles	EA62B (old rep EA102CUL)	BW100EAGU-2P	-	-
	100AF*1	2 poles	EA63B (old rep EA103CUL)	BW100EAGU-3P	EG63B (old rep EG103RCUL)	EW100EAGU-3P
			EA102B (old rep EA102CUL)	BW100EAGU-2P	EG102B (old rep EG102RCUL)	EW100EAGU-2P
		3 poles	EA103F (old rep EA103CUL)	BW100EAGU-3P	EG103F (old rep EG103RCUL)	EW100EAGU-3P
			EA103B (old rep EA103CUL)	BW100EAGU-3P	EG103B(D) (old rep EG103RCUL)	EW100EAGU-3P
	225AF	2 poles	EA103K (old rep EA103CUL)	BW100EAGU-3P	EG103K (old rep EG103RCUL)	EW100EAGU-3P
		3 poles	EA202B	BW250EAGU-2P	-	-
	400AF	2 poles	EA203B	BW250EAGU-3P	EG203B(D)	EW250JAGU-3P
		3 poles	EA402B	BW400EAGU-2P	-	-
S series	30AF*1	2 poles	EA403B	BW400EAGU-3P	EG403B(D)	EW400SAGU-3P
		3 poles	EA603B	BW630RAGU-3P	EG603B(D)	EW630RAGU-3P
	50AF*1	2 poles	EA803B	BW800RAGU-3P	EG803B(D)	(EW800EAG-3P)
			SA32B (old rep SA52RCUL)	BW50RAGU-2P	-	-
		3 poles	SA33B (old rep SA53RCUL)	BW50RAGU-3P	SG33B (old rep SG53RCUL)	EW50RAGU-3P
			SA52B (old rep SA52RCUL)	BW50RAGU-2P	-	-
	60AF*1	2 poles	SA52R (old rep SA52RCUL)	BW50RAGU-2P	-	-
			SA53B (old rep SA53RCUL)	BW50RAGU-3P	SG53B (old rep SG53RCUL)	EW50RAGU-3P
		3 poles	SA53R (old rep SA53RCUL)	BW50RAGU-3P	SG53R (old rep SG53RCUL)	EW50RAGU-3P
			A62B (old rep EA102RCUL)	BW100EAGU-2P	-	-
	100AF	2 poles	SA62R (old rep EA102RCUL)	BW100EAGU-3P	-	-
			SA63B (old rep EA103RCUL)	BW100EAGU-3P	SG63B (old rep EG103RCUL)	EW100EAGU-3P
		3 poles	SA63R (old rep EA103RCUL)	BW100EAGU-3P	SG63R (old rep EG103RCUL)	EW100EAGU-3P
			SA102B	BW125JAGU-2P	-	-
	225AF	2 poles	SA102R	BW125RAGU-2P	-	-
			SA102BA	BW125JAGU-2P	-	-
			SA102RA	BW125RAGU-2P	-	-
			SA103B(N)	BW125JAGU-3P	SG103B(D)	EW125JAGU-3P
		3 poles	SA103R(N)	BW125RAGU-3P	SG103R(D)	EW125RAGU-3P
			SA103BA(N)	BW125JAGU-3P	SG103BA(D)	EW125JAGU-3P
			SA103RA(N)	BW125RAGU-3P	SG103RA(D)	EW125RAGU-3P
			SA202B	BW250JAGU-2P	-	-
	400AF	2 poles	SA202R	BW250RAGU-2P	-	-
			SA202BA	BW250JAGU-2P	-	-
			SA202RA	BW250RAGU-2P	-	-
			SA203B(N)	BW250JAGU-3P	SG203B(D)	EW250JAGU-3P
		3 poles	SA203R(N)	BW250RAGU-3P	SG203R(D)	EW250RAGU-3P
			SA203BA(N)	BW250JAGU-3P	SG203BA(D)	EW250JAGU-3P
			SA203RA(N)	BW250RAGU-3P	SG203RA(D)	EW250RAGU-3P
			SA402B(N)	BW400SAGU-2P	-	-
	600AF	3 poles	SA403R(N)	BW400SAGU-3P	SG403B(D)	EW400SAGU-3P
		2 poles	SA402R(N)	BW400RAGU-2P	-	-
		3 poles	SA403R(N)	BW400RAGU-3P	SG403R(D)	EW400RAGU-3P
		3 poles	SA603R(N)	BW630RAGU-3P	SG603R(D)	EW630RAGU-3P
	800AF	3 poles	SA803R(N)	BW800RAGU-3P	SG803R(D)	(EW800RAG-3P)

Note: All accessories discontinued as well.

- : No replacement

*2: Discontinued Non-UL ELCB has a Trip Lead type, specify "TL" for P/N (Two lead wire comes from inside of the ELCB and labeled as TL1 & TL2). Replacement model P/N specify "T".

Ex: EG33AC/20-30MA-TL → EW32AAG-3P020B T

Discontinued Products Cross Charts

*1 Scheduled discontinue date: September 30th, 2010

Series	Frame size		Molded Case Circuit Breakers		Earth Leakage Circuit Breakers	
			Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*2	Replacement - UL489 (Non-UL)
H series	50AF	2 poles	H52BA / H52C	(BW50HAG-2P)	-	-
		3 poles	H53BA / H53C	(BW50HAG-3P)	HG53B(D)	(EW50HAG-3P)
			H53BAN / H53CN	-	-	-
			H53CM	-	-	-
	100AF	2 poles	H102BA / H102C	(BW125HAG-2P)	-	-
		3 poles	H103BA / H103C	(BW125HAG-3P)	HG103B(D)	(EW125HAG-3P)
			H103BAN / H103CN	-	HG103BN(D)	-
	225AF	2 poles	H202BA / H202C	(BW250HAG-2P)	-	-
		3 poles	H203BA / H203C	(BW250HAG-3P)	HG203B(D)	(EW250HAG-3P)
			H203BAN / H203CN	(BX250HAE-3P)	HG203BN(D)	(EW250HAE-3P)
UL508 EA/SA -UL series*1	50AF	2 poles	EA52BUL (old rep SA52RCUL)	BW50RAGU-2P	-	-
		3 poles	EA53BUL (old rep SA53RCUL)	BW50RAGU-3P	-	-
	100AF	3 poles	EA103BUL (old rep EA103RCUL)	BW100EAGU-3P	-	-
	30AF	2 poles	SA32BUL (old rep SA52RCUL)	BW50RAGU-2P	-	-
		3 poles	SA33BUL (old rep SA53RCUL)	BW50RAGU-3P	-	-
	50AF	2 poles	SA52BUL (old rep SA52RCUL)	BW50RAGU-2P	-	-
		3 poles	SA53BUL (old rep SA53RCUL)	BW50RAGU-3P	-	-
		2 poles	SA52RUL (old rep SA52RCUL)	BW50RAGU-2P	-	-
		3 poles	SA53RUL (old rep SA53RCUL)	BW50RAGU-3P	-	-
	60AF	2 poles	SA62BUL (old rep EA102RCUL)	BW100EAGU-2P	-	-
		3 poles	SA63BUL (old rep EA103RCUL)	BW100EAGU-3P	-	-
		2 poles	SA62RUL (old rep EA103RCUL)	BW100EAGU-2P	-	-
		3 poles	SA63RUL (old rep EA103RCUL)	BW100EAGU-3P	-	-

Note: All accessories discontinued as well.

- : No replacement

*2: Discontinued Non-UL ELCB has a Trip Lead type, specify "TL" for P/N (Two lead wire comes from inside of the ELCB and labeled as TL1 & TL2). Replacement model P/N specify "T".

Ex: EG33AC/20-30MA-TL → EW32AAG-3P020B T

Discontinued Accessories for above circuit breakers.

	Discontinued models	Replacement		Discontinued models	Replacement
Operating Handles (V type)	BZ-V30C	-	Handle Lock Covers	BZ-L30C	-
	BZ-V40C	-		BZ-L40C	-
	BZ-V30C-E	-	Mechanical Interlock	BZ-M130C-2	-
	BZ-V40C-E	-		BZ-S60B-225*	-
	BZ-V30C-S	-		BZ-E30C-100*	-
	BZ-V40C-S	-		BZ-E40B-225*	-
	BZ-V30C-ES	-			
	BZ-V40C-ES	-			
	BZ-V30C-EUL	-			
	BZ-V40C-EUL	-			
	BZ6V10CP*1	BZ6V10D			
Operating Handles (N type)	BZ6N10CP*1	BZ6N10D			

-: No replacement

Discontinued Products Cross Charts

*1 Scheduled discontinue date: September 30th, 2010

Series	Frame size		Molded Case Circuit Breakers		Earth Leakage Circuit Breakers	
			Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*2	Replacement - UL489 (Non-UL)
UL489 series*1	50AF	2 poles	SA52RCUL	BW50RAGU-2P	-	-
		3 poles	SA53RCUL	BW50RAGU-3P	SG53RCUL	EW50RAGU-3P
	100AF	2 poles	EA102CUL	BW100EAGU-2P	EG102CUL	EW100EAGU-2P
		3 poles	EA103CUL	BW100EAGU-3P	EG103CUL	EW100EAGU-3P
	50/100AF	2 poles	BU-ECA2	BW50RAGU-2P BW100EAGU-2P	-	-
		3 poles	BU-ECA3	BW50RAGU-3P BW100EAGU-3P	-	-
	125AF	2 poles	SA102CUL	BW125JAGU-2P	-	-
		3 poles	SA103CUL	BW125JAGU-3P	SG103CUL	EW125JAGU-3P
		2 poles	SA102RCUL	BW125RAGU-2P	-	-
		3 poles	SA103RCUL	BW125RAGU-3P	-	-
	250AF	2 poles	SA202CUL	BW250JAGU-2P	-	-
		3 poles	SA203CUL	BW250JAGU-3P	SG203CUL	EW250JAGU-3P
		2 poles	SA202RCUL	BW250RAGU-2P	-	-
		3 poles	SA203RCUL	BW250RAGU-3P	-	-
		2 poles	BU-GCA2	BW250EAGU-2P	-	-
		3 poles	BU-GCA3	BW250EAGU-3P	-	-
		2 poles	BU-GDA2	BW250EAGU-2P	-	-
		3 poles	BU-GDA3	BW250EAGU-3P	-	-
	400AF	2 poles	SA402CUL	BW400SAGU-2P	-	-
		3 poles	SA403CUL	BW400SAGU-3P	SG403CUL	EW400SAGU-3P
		2 poles	SA402RCUL	BW400RAGU-2P	-	-
		3 poles	SA403RCUL	BW400RAGU-3P	-	-
		2 poles	BU-KDA2	BW400EAGU-2P	-	-
		3 poles	BU-KDA3	BW400EAGU-3P	-	-
		2 poles	BU-KSB2	BW400HAGU-2P	-	-
		3 poles	BU-KSB3	BW400HAGU-3P	-	-
		2 poles	BU-KHB2	BW400HAGU-2P	-	-
		3 poles	BU-KHB3	BW400HAGU-3P	-	-
		2 poles	BU2KHC	BW400HAGU-2P	-	-
		3 poles	BU3KHC	BW400HAGU-3P	-	-
	630AF	3 poles	SA603RCUL	BW630RAGU-3P	-	-
		2 poles	BU-LSB2	-	-	-
		3 poles	BU-LSB3	BW630HAGU-3P	-	-
		2 poles	BU-LHB2	-	-	-
		3 poles	BU-LHB3	BW630HAGU-3P	-	-
		2 poles	BU2LHC	-	-	-
	800AF	3 poles	BU3LHC	BW630HAGU-3P	-	-
		3 poles	SA803RCUL	BW800RAGU-3P	-	-
		2 poles	BU-MSB2	-	-	-
		3 poles	BU-MSB3	BW800HAGU-3P	-	-
		2 poles	BU-MHB2	-	-	-
		3 poles	BU-MHB3	BW800HAGU-3P	-	-
		2 poles	BU2MHC	-	-	-
		3 poles	BU3MHC	BW800HAGU-3P	-	-
UL489 SA/UL series	100AF	2 poles	SA102BAUL	BW125JAGU-2P	-	-
		3 poles	SA103BAUL	BW125JAGU-3P	SG103BAUL	EW125JAGU-3P
		2 poles	SA102RAUL	BW125RAGU-2P	-	-
		3 poles	SA103RAUL	BW125RAGU-3P	-	-
	225AF	2 poles	SA202BAUL	BW250JAGU-2P	-	-
		3 poles	SA203BAUL	BW250JAGU-3P	SG203BAUL	EW250JAGU-3P
		2 poles	SA202RAUL	BW250RAGU-2P	-	-
		3 poles	SA203RAUL	BW250RAGU-3P	-	-
	400AF	2 poles	SA402BUL	BW400SAGU-2P	-	-
		3 poles	SA403BUL	BW400SAGU-3P	-	-
		2 poles	SA402RUL	BW400RAGU-2P	-	-
		3 poles	SA403RUL	BW400RAGU-3P	-	-
	600AF	3 poles	SA603RUL	BW630RAGU-3P	-	-
	800AF	3 poles	SA803RUL	BW800RAGU-3P	-	-

Note: All accessories discontinued as well.

- : No replacement

*2: Discontinued Non-UL ELCB has a Trip Lead type, specify "TL" for P/N (Two lead wire comes from inside of the ELCB and labeled as TL1 & TL2). Replacement model P/N specify "T".

Ex: EG33AC/20-30MA-TL → EW32AAG-3P020B T

Discontinued Products Cross Charts

*1 Scheduled discontinue date: September 30th, 2010

Series	Frame size		Molded Case Circuit Breakers		Earth Leakage Circuit Breakers	
			Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*2	Replacement - UL489 (Non-UL)
E series (Non-UL)*1	30AF	2 poles	EA32AC	BW50RAGU-2P	EG32AC	(EW32AAG-2P)
		3 poles	EA33AC	BW50RAGU-3P	EG33AC	EW50RAGU-3P
		3 poles	-	-	EG33C	EW50RAGU-3P
	50AF	2 poles	EA52AC	BW50RAGU-2P	EG52AC	(EW50AAG-2P)
		3 poles	EA53AC	BW50RAGU-3P	EG53AC	EW50RAGU-3P
		2 poles	EA52C	BW50RAGU-2P	-	-
		3 poles	EA53C	BW50RAGU-3P	EG53C	EW50RAGU-3P
	100AF	2 poles	EA62C	BW100EAGU-2P	-	-
		3 poles	EA63C	BW100EAGU-3P	EG63C	EW100EAGU-3P
		3 poles	EA103AC	BW100EAGU-3P	EG103AC	EW100EAGU-3P
		2 poles	EA102C	BW100EAGU-2P	EG102C	EW100EAGU-2P
		3 poles	EA103C	BW100EAGU-3P	EG103C	EW100EAGU-3P
		3 poles	-	-	EG103CD	(EW100EAD-3P-4B)
	250AF	2 poles	EA202C	BW250EAGU-2P	-	-
		3 poles	EA203C	BW250EAGU-3P	EG203C(D)	EW250JAGU-3P
	400AF	2 poles	EA402C	BW400EAGU-2P	-	-
		3 poles	EA403C	BW400EAGU-3P	EG403C(D)	EW400SAGU-3P
	600AF	3 poles	EA603C	BW630RAGU-3P	EG603C, CD	EW630RAGU-3P
	800AF	3 poles	EA803C	BW800RAGU-3P	EG803C, CD	(EW800EAG-3P)
S series (Non-UL)*1	30AF	2 poles	SA32C	BW50RAGU-2P	-	-
		3 poles	SA33C	BW50RAGU-3P	SG33C	EW50RAGU-3P
	50AF	2 poles	SA52C	BW50RAGU-2P	-	-
		3 poles	SA53C	BW50RAGU-3P	SG53C	EW50RAGU-3P
		2 poles	SA52RC	BW50RAGU-2P	-	-
		3 poles	SA53RC	BW50RAGU-3P	SG53RC	EW50RAGU-3P
	60AF	2 poles	SA62C	BW100EAGU-2P	-	-
		3 poles	SA63C	BW100EAGU-3P	SG63C	EW100EAGU-3P
		2 poles	SA62RC	BW100EAGU-2P	-	-
		3 poles	SA63RC	BW100EAGU-3P	SG63RC	EW100EAGU-3P
	125AF	2 poles	SA102C	BW125JAGU-2P	-	-
		3 poles	SA103C	BW125JAGU-3P	SG103C, CD	EW125JAGU-3P
		4 poles	SA54B, EA104B	(BW125JAG-4P)	SGa104A, AD	(EW125JAG-4P)
		2 poles	SA102RC	BW125RAGU-2P	-	-
		3 poles	SA103RC	BW125RAGU-3P	SG103RC(D)	EW125RAGU-3P
		4 poles	SA104R	(BW125RAG-4P)	SGa104H(D)	(EW125RAG-4P)
	250AF	2 poles	SA202C	BW250JAGU-2P	-	-
		3 poles	SA203C	BW250JAGU-3P	SG203C(D)	EW250JAGU-3P
		4 poles	-	-	SGa204A(D)	(EW250JAG-4P)
S series (Non-UL)*1	250AF	2 poles	SA202RC	BW250RAGU-2P	-	-
		3 poles	SA203RC	BW250RAGU-3P	SG203RC(D)	EW250RAGU-3P
		4 poles	SA204R	(BW250RAG-4P)	SG204H(D)	(EW250RAG-4P)
		2 poles	SA402C	BW400SAGU-2P	-	-
	400AF	3 poles	SA403C	BW400SAGU-3P	SG403C(D)	EW400SAGU-3P
		2 poles	SA402RC	BW400RAGU-2P	-	-
		3 poles	SA403RC	BW400RAGU-3P	SG403RC(D)	EW400RAGU-3P
		4 poles	SA404HA	(BW400RAG-4P)	SGa404A(D)	(EW400RAG-4P)
	600AF	3 poles	SA603RC	BW630RAGU-3P	SG603RC(D)	EW630RAGU-3P
		4 poles	SA604H	(BW630RAG-4P)	-	-
	800AF	3 poles	SA803RC	BW800RAGU-3P	SG803RC(D)	(EW800RAG-3P)
		4 poles	SA804H	(BW800RAG-4P)	-	-
H series (Non-UL)*1	400AF	2 poles	H402C	BW400HAGU-2P	-	-
		3 poles	H403C	BW400HAGU-3P	HG403C(D)	EW400HAGU-3P
	600AF	3 poles	H603C	BW630HAGU-3P	HG603C(D)	(EW630HAG-3P)
	800AF	3 poles	H803C	BW800HAGU-3P	HG803C(D)	(EW800HAG-3P)

Note: All accessories discontinued as well.

- : No replacement

*2: Discontinued Non-UL ELCB has a Trip Lead type, specify "TL" for P/N (Two lead wire comes from inside of the ELCB and labeled as TL1 & TL2). Replacement model P/N specify "T".

Ex: EG33AC/20-30MA-TL → EW32AAG-3P020B T

Replacement for BU series (ESB/FSB/FHB)

Discontinued Date: June 30, 2002

480VAC application

Frame size (A)	Poles	BU series (Discontinued product)				G-TWIN series				BU-C series			
		Type	Rated I.C (kA)	Dimensions (mm)			Type	Rated I.C (kA)	Rated Current (A)	Dimensions (mm)			Type
				W	H	D				W	H	D	
100	2	BU-ESB2	14	15 - 100	105	168	86	50	15 - 125	90	171	68	BU2EHC
	3	BU-ESB3	14	15 - 100	105	168	86	50	15 - 125	90	171	68	BU3EHC
	2	BU-FSB2	22	15 - 100	105	168	86	50	15 - 125	90	171	68	BU2FHC
150	3	BU-FSB3	22	15 - 125	105	168	86	50	125 - 250	105	181	68	BU3FHC
	2	BU-FHB2	25	15 - 100	105	168	86	50	15 - 125	105	181	68	BU2FHC
	3	BU-FHB3	25	15 - 125	105	168	86	50	125 - 250	105	181	68	BU3FHC

600VAC application

Frame size (A)	Poles	BU series (Discontinued product)				G-TWIN series				BU-C series			
		Type	Rated I.C (kA)	Dimensions (mm)			Type	Rated I.C (kA)	Rated Current (A)	Dimensions (mm)			Type
				W	H	D				W	H	D	
100	2	BU-ESB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2EHC
	3	BU-ESB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FSB2	14	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 100	105	181	86
150	3	BU-FSB3	14	15 - 50	105	168	86	No replacement	-	-	-	-	BU2FHC
	2	BU-FHB2	18	15 - 100	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	3	BU-FHB3	18	15 - 50	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
200	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
250	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
300	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
350	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
400	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
450	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
500	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
550	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
600	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
650	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
700	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
750	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
800	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
850	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
900	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
950	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86
1000	2	BU-FSB2	14	15 - 100	105	168	86	No replacement	-	-	-	-	BU2FHC
	3	BU-FSB3	14	15 - 50	105	168	86	BW50KAGU-3P	18	15 - 50	90	171	68
	2	BU-FHB2	18	15 - 100	105	168	86	BW125KAGU-3P	25	60 - 125	105	181	86

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March, 2011