





BALTWIN SERIES

UL 489 LISTED

MOLDED CASE CIRCUIT BREAKERS EARTH LEAKAGE CIRCUIT BREAKERS















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.







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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Frame size (A)			50		100	
Туре				BW50RAGU-2P	BW50RAGU-3P	BW100EAGU-2P	BW100EAGU-3P
Appearance							
	Terminals, 3 poles) 9 interrupting capaci	tv.					
OON=UL40	э ппентиринд Сарасі	ty					
Rated insula EC60947-2	tion voltage (V)		AC DC	690	690	690	690
	,		AC	240	240	240	240
	je (V) (UL489)		AC	3,5 10,15,20,30,32,40,50		60,63,70,75,80,90,100	240
Rated currer	II (A)			2	3,5 10,15,20,30,32,40,50	2	2
Poles Rated freque	ancy (Hz)			50/60	50/60	50/60	3 50/60
Rated freque	UL489	AC	600V/△	-	_	_	50/60
interrupting capacity sym (kA)	CAN/CSA C22.2	AC	600V/Y	_	-	_	
	No.5		480V/△	-	_	_	-
			480V/Y	- -	_	_	
			240V	14	14	14	14
		DC	250V	-	_	_	-
	IEC60947-2	AC	690V	_	_	_	_
	JIS C 8201-2-1 lcu/lcs	7.0	600V	5/3	5/3	5/3	5/3
			500V	7.5/4	7.5/4	7.5/4	7.5/4
			440V	10/5	10/5	10/5	10/5
			400V	10/5	10/5	10/5	10/5
			230V	25/13	25/13	25/13	25/13
		DC	250V	5/3	5/3	5/3	5/3
	GB14048.2	AC	400V	7/4 10/5	7/4 10/5	10/5	10/5
	lcu/lcs	70	230V	14/7 25/13	14/7 25/13	25/13	25/13
imension	1. 2.1			1.969(50)	2.953(75)	1.969(50)	2.953(75)
ch (mm)	- a→	C.	a b	4.724(120)	4.724(120)	4.724(120)	4.724(120)
	🗆 þ	<u>al</u> 1	С	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)
erminal	Screw terminals		None	•	•	•	•
onstruction	Flat terminals		SF	•	•	•	•
	Lug terminals		SB	-	-	•	•
ternal	Auxiliary switch		w	BZ6WR10CU	BZ6W*10CU	BZ6WR10CU	BZ6W*10CU
cessories	Auxiliary switch for I	ow current	WD	BZ6WDR10CU	BZ6WD*10CU	BZ6WDR10CU	BZ6WD*10CU
	Alarm switch		К	BZ6KR10CU	BZ6K*10CU	BZ6KR10CU	BZ6K*10CU
	Alarm switch for lo	w current		BZ6KDR10CU	BZ6KD*10CU	BZ6KDR10CU	BZ6KD*10CU
	Auxiliary & Alarm s	witch	WK	BZ6WKR10CU	BZ6WK*10CU	BZ6WKR10CU	BZ6WK*10CU
	Aux and Alarm for lo	ow 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 terr	minal block	Α	*1	*1	*1	*1
xternal	Padlocking device (0		Q1	BZ6L10CA	BZ6L10CA	BZ6L10CA	BZ6L10CA
ccessories	Handle locking cove			BZ6L10C	BZ6L10C	BZ6L10C	BZ6L10C
	External operating	handle	V	BZ6V10D	BZ6V10D	BZ6V10D	BZ6V10D
			N	BZ6N10D	BZ6N10D	BZ6N10D	BZ6N10D
	Field Installable	Flat termin	nal kit	BZ-SU20B	BZ-SU20B	BZ-SU25B	BZ-SU25B
	terminal Kit	Lug termir	nal kit	-	-	-	_
	Terminal covers	for screw, s	short type	Provided	Provided	Provided	Provided
	*3	for screw,	long type	BW9BTAA-L2W	BW9BTAA-L3W	BW9BTAA-L3W	BW9BTAA-L3W
		for Flat ter	minal	_	-	-	-
		for Lug ter	minal	-		-	
				BZ6B10C	BZ6B10C	BZ6B10C	BZ6B10C
	Insulation barrier *2	-					

^{*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.

² institution barriers are only required with a 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)

'5 Non-UL item

^{●:} Available, -: Not available

Frame size (A	A)			125			250		
Туре				BW125JAG	BU	BW125RAGU	BW250EAGU	BW250JAGU	BW250RAGU
Appearance								"	
	Terminals, 3 poles)				1.11	41 4			
	9 interrupting capac	ity							
						2 1			
Rated insulation voltage (V) AC		AC	690		690	690	690	690	
(IEC60947-2)	()		DC	250		250	250	250	250
Rated voltag	je (V) (UL489)		AC	600Y/347		600Y/347	240	600Y/347	600Y/347
Rated curren	nt (A)			15,20,30,40	0,50,60,70,7	5,80,90,100,125	125,150,160,175,200	0,225,250	
Poles				2	3	2 3	2 3	2 3	2 3
Rated freque	ency (Hz)			50/60		50/60	50/60	50/60	50/60
Rated	UL489	AC	600V/△	-	-	-	-	_	-
interrupting	CAN/CSA C22.2		600V/Y	10	10	18	-	10	25
capacity sym (kA)	No.5		480V/△	-	30	50	-	30	50
Sylli (KA)			480V/Y	30	30	50	-	30	50
			240V	50	50	100	22	50	100
		DC	250V	10	10	10	10	10	10
	IEC60947-2	AC	690V	-		5/3	-	_	5/3
	JIS C 8201-2-1 lcu/lcs		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
		DC	250V	15/8		40/20	10/5	20/10	40/20
	GB14048.2	AC	400V	30/15		50/25	18/9	30/15	50/25
	lcu/lcs	AC	230V	50/25		100/50	36/18	50/25	100/50
Dimension			a	2.362(60)	3.543(90)	3.543(90)	4.134(105)	4.134(105)	4.134(105)
nch (mm)	+a→	PC-	b	6.372(171)	3.343(90)	6.372(171)	7.126(181)	7.126(181)	7.126(181)
		4	c	2.677(68)		2.677(68)	2.677(68)	2.677(68)	2.677(68)
		4	d	3.740(95)		3.740(95)	3.740(95)	3.740(95)	3.740(95)
Terminal	Screw terminals (s	tandard\	None	3.740(93)		3.740(93)	3.740(93)	3.740(93)	3.740(93)
construction	Flat terminals	tariuaru)	SF			<u> </u>	+ =		
onou douon						•	•		
	Lug terminals		SB	DIMONAL CO	,U(D)	DMOM16CO(D)	DWOWIECOV D	DW0W1000(D)	DMOM4000(E)
nternal	Auxiliary switch	laur s	W	BW9W1SG		BW9W1SG0(-R)	BW9W1SG0(-R)	BW9W1SG0(-R)	BW9W1SG0(-R)
ccessories	,	iow current	1	BW9W1DG		BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)
	Alarm switch		K	BW9K1SG		BW9K1SG0(-R)	BW9K1SG0(-R)	BW9K1SG0(-R)	BW9K1SG0(-R)
	Alarm switch for lo		8	BW9K1DG		BW9K1DG0(-R)	BW9K1DG0(-R)	BW9K1DG0(-R)	BW9K1DG0(-R)
	Auxiliary & Alarm s		WK	BW9WKSG		BW9WKSG0(-R)	BW9WKSG0(-R)	BW9WKSG0(-R)	BW9WKSG0(-R)
	Aux & Alarm for lov	v current	18	BW9WKD0	2U(-Η)	BW9WKDG0(-R)	BW9WKDG0(-R)	BW9WKDG0(-R)	BW9WKDG0(-R)
	Shunt trip		F	BW9F*G0	DWODGA	BW9F*G0	BW9F*G0	BW9F*G0	BW9F*G0
	Under voltage trip		R	-	BW9RGA*	BW9RGA*	BW9RGA*	BW9RGA*	BW9RGA*
	Accessories with ter		A	See page 2		See page 22	See page 22	See page 22	See page 22
External	Padlocking device *	2	Q1	BW9Q1CA		BW9Q1CA	BW9Q1CA	BW9Q1CA	BW9Q1CA
ccessories			Q2	BW9Q2CA		BW9Q2CA	BW9Q2GA	BW9Q2GA	BW9Q2GA
	External operating	nandle	V	-	BW9V0CA	BW9V0CA	BW9V0GA	BW9V0GA	BW9V0GA
			N	-	BW9N0CA	BW9N0CA	BW9N0GA	BW9N0GA	BW9N0GA
	<u></u>	1	F	-	BW9F0CA	BW9F0CA	BW9F0GA	BW9F0GA	BW9F0GA
	Field Installable	Flat termina			253 GLOBA		BW9SS0CA-3 GLOE		
	terminal kit	Lug termina	l kit	BW9SL0CA	A-3 GLOBAL		Please see page 28.		
	Terminal covers	Short type,	gray-white	Provided		Provided	Provided	Provided	Provided
	*1	Short type,t	ransparent	BW9BTCA-S2	BW9BTCA-S3	BW9BTCA-S3	BW9BTGA-S3	BW9BTGA-S3	BW9BTGA-S3
		1.		DWODTON LOW	BW9BTCA-L3W	BW9BTCA-L3W	BW9BTGA-L3W	BW9BTGA-L3W	BW9BTGA-L3W
		Long type,g	ray-white	BW9B1CA-L2W	BW9B1CA-L3W	DW3D10A LOW	DVV3DTGA LOVV	DW3DTGA LOW	DVV9D1GA-L3VV
		Long type,g		BW9BTCA-L2W BW9BTCA-L2	BW9BTCA-L3	BW9BTCA-L3	BW9BTGA-L3	BW9BTGA-L3	BW9BTGA-L3W
	Insulation barrier				BW9BTCA-L3				

^{*1} Short type terminal covers (gray-white) are supplied as standard. *2 Non-UL item

^{●:} Available, -: Not available

Frame size (A	")			400	DIA/(222.12::	DIM//CODA O::	DW/400114 OLI
Туре				BW400EAGU	BW400SAGU	BW400RAGU	BW400HAGU
Appearance							
(with Flat Ter	minals, 3 poles)				9	0 0	
					al	10.0	
					3		
SCCR=UL489	9 interrupting capac	ity					
						하 등 () []	
					-		
					5.	Conne il	
					9		
Datad inquilet	tion voltage (V)		100	690	690	690	690
(IEC60947-2)			AC		250		
,			DC	250		250	250
	e (V) (UL489)		AC	240	480	480	600
Rated curren	nt (A)			250, 300, 350, 400			
Poles				2 3	2 3	2 3	2 3
Rated freque	ency (Hz)			50/60	50/60	50/60	50/60
Rated	UL489	AC	600V/△	-	-	-	25
interrupting capacity	CAN/CSA C22.2		600V/Y	_	_	_	25
	No.5		480V/△	_	35	50	65 (50: with lug terminals)
sym (kA)			480V/Y	_	35	50	65 (50: with lug terminals)
			240V	22	50	100	125
		DC	250V	10	10	100	10
	IEC60947-2 JIS C 8201-2-1 lcu/lcs	AC	690V	-	10/5	15/8	15/8
			500V	18/9	20/11	36/18	42/21
			440V	30/15	36/18	50/25	70/35
			400V	30/15	36/18	50/25	70/35
			380V	30/15	36/18	50/25	70/35
			240V	50/25	85/43	100/50	125/63
		DC	250V	20/10	20/10	40/20	40/20
	GB14048.2	AC	400V	30/15	36/18	50/25	70/35
	lcu/lcs	ΑΟ	230V	50/25	85/43	100/50	125/63
Dimension			a	5.512(140)	5.512(140)	5.512(140)	5.512(140)
nch (mm)	-a →	+-a-	b	10.12(257)	10.12(257)	10.12(257)	10.12(257)
, ,		4					
	L L L L L L L L L L L L L L L L L L L	4	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	Screw terminals		-	-	-		_
construction	Flat terminals (star	ndard)	None	•	•	•	•
	Lug terminals		SB		•	•	•
nternal	Auxiliary switch		W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA
accessories	Auxiliary switch 2 co	ontacts	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
		ntacte			BW9K2SHA		
	Alarm switch 2 cor	แสบเช	J	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 ter	minal block	Α	See page 22	See page 22	See page 22	See page 22
External	Padlocking device *	2	QN	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA
accessories			Q2	BW9Q2HA	BW9Q2HA	BW9Q2HA	BW9Q2HA
	External operating	handle	V	BW9V0HA	BW9V0HA	BW9V0HA	BW9V0HA
		··andio	N		BW9N0HA		
				BW9N0HA		BW9N0HA	BW9N0HA
	-		F	BW9F0HA	BW9F0HA	BW9F0HA	BW9F0HA
	Field Installable ter			_	-	-	_
	Terminal covers	Short type, o	gray-white	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W	BW9BTHA-S3W
	*1	Short type, t	ransparent	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3	BW9BTHA-S3
		Long type, g	ray-white	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W	BW9BTHA-L3W
				BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3	BW9BTHA-L3
	Long type, tr						
	Insulation barrier			B-43A	B-43A	B-43A	B-43A

^{*1} Terminal covers are <u>NOT</u> supplied as standard. *2 Non-UL item

^{●:} Available, -: Not available

Type Appearance (with Flat Terr	4)			630		800	
				BW630RAGU	BW630HAGU	BW800RAGU	BW800HAGU
with Flat Terr							
	minals, 3 poles)				0	0 0	
					0.6	0 6.6 4	
CCR=UL489	9 interrupting capac	ity					
						图	
					-	0.000	
					5.0	C 0.C 2	
Rated insulat	tion voltage (V)		AC	690	690	690	690
IEC60947-2)			DC	250	250	250	250
Rated voltage	e (V) (UL489)		AC	480	600	480	600
Rated current			1,10	500, 600, 630	000	700, 800	000
Poles	it (A)			3	3	3	3
Rated freque	ancy (Hz)			50/60	50/60	50/60	50/60
Rated	UL489	AC	600V/△	-	25	50/60	25
nterrupting	CAN/CSA C22.2	AC	600V/Y	_	25	-	25
apacity	No.5		480V/△	50	65 (50: with lug terminals)	50	65 (50: with lug terminals)
sym (kÁ)					<u> </u>		
			480V/Y	50	65 (50: with lug terminals)	50	65 (50: with lug terminals)
_			240V	100	100	100	125
,	IEC60947-2	DC	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	AC	400V	50/25	70/35	50/25	70/35
	lcu/lcs		230V	100/50	125/63	100/50	125/63
Dimension	- a→	r-d-≠	а	8.268(210)	8.268(210)	8.268(210)	8.268(210)
nch (mm)			b	10.83(275)	10.83(275)	10.83(275)	10.83(275)
	<u> </u>			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)
erminal	Screw terminals		-	-	-	-	-
onstruction	Flat terminals		None	•	•	● *2	● *2
	Lug terminals		SB	● *1	★1	•	•
nternal	Auxiliary switch		W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA
ccessories	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
ŀ	Alarm switch		K	BW9W2DHA BW9K1SHA	BW9K1SHA	BW9W2DHA BW9K1SHA	BW9W2DHA BW9K1SHA
	Alarm switch 2 cor	ntacts	J	BW9K2SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA
	Alarm low current	naois	8	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA
,	Alarm low current	2 contacts	9				
		2 contacts		BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA
	Shunt trip		F	BW9FHA-*	BW9FHA-*	BW9FHA-*	BW9FHA-*
	· ·		R	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*
	Under voltage trip		A	See page 22	See page 22	See page 22	See page 22
	Accessories with terr		_				
I	<u> </u>		QN	BW9QNHA	BW9QNHA	BW9QNHA	BW9QNHA
I	Accessories with ten	*4	QN Q2	BW9Q2JA	BW9Q2JA	BW9Q2JA	BW9Q2JA
I	Accessories with terr	*4	QN				
I	Accessories with ten	*4	QN Q2	BW9Q2JA	BW9Q2JA	BW9Q2JA	BW9Q2JA
I	Accessories with ten	*4 handle	QN Q2 V	BW9Q2JA BW9V0JA	BW9Q2JA BW9V0JA	BW9Q2JA BW9V0JA	BW9Q2JA BW9V0JA
I	Accessories with tent Padlocking device External operating	*4 handle	QN Q2 V N	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA
I	Accessories with tern Padlocking device External operating Field Installable ter	*4 handle minal	QN Q2 V N	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA
external accessories	Accessories with ten Padlocking device External operating Field Installable ten Terminal covers	*4 handle minal Short type, g	QN Q2 V N	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA -	BW9Q2JA BW9V0JA BW9N0JA -	BW9Q2JA BW9V0JA BW9N0JA -
I	Accessories with ten Padlocking device External operating Field Installable ten Terminal covers	*4 handle rminal Short type, g Short type, tr	QN Q2 V N ray-white ansparent ray-white	BW9Q2JA BW9V0JA BW9N0JA BW9BTJA-L3W			
I	Accessories with ten Padlocking device External operating Field Installable ten Terminal covers	handle minal Short type, g Short type, tr	QN Q2 V N ray-white ansparent ray-white	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA	BW9Q2JA BW9V0JA BW9N0JA

^{*1} Lug terminal is <u>NOT</u> available for 630 ampere.
*2 Flat terminal is <u>NOT</u> available for 800 ampere.
*3 Terminal covers are <u>NOT</u> supplied as standard.
*4 Non-UL item

^{●:} Available, -: Not available

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

Frame size (A	٩)			50	100	
Туре				EW50RAGU-3P	EW100EAGU-2P	EW100EAGU-3P
Appearance						
	Terminals, 3 poles) 9 interrupting capac	ity				
Rated voltage AC (V) UL		UL	240	240	240	
IEC			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 freque	ency (Hz)			50/60	50/60	50/60
Rated interrupting capacity sym (kA)	UL489	AC	480V/△	-	-	-
	CAN/CSA C22.2 No.5		480V/Y	-	-	-
			240V	14	14	14
	IEC60947-2	AC	440V	10/5	_	10/5
	JIS C 8201-2-2 lcu/lcs		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	AC	400V	10/5	7.5/4	10/5
	lcu/lcs		230V	25/13	10/5	25/13
Dimension	+-a-+	ı—d→ı	а	2.953(75)	2.953(75)	2.953(75)
nch (mm)	 	+-d	b	4.724(120)	4.724(120)	4.724(120)
	🗇 þ	A I	С	2.362(60)	2.362(60)	2.362(60)
				3.307(84)	3.307(84)	3.307(84)
erminal	Screw terminals		None	•	•	•
construction	Flat terminals		SF	•	•	•
	Lug terminals		SB	-	-	-
nternal	Auxiliary switch		w	BZ6W*10CU	BZ6W*10CU	BZ6W*10CU
ccessories	Alarm switch		К	BZ6K*10CU	BZ6K*10CU	BZ6K*10CU
4	Shunt trip		F	BZ6F*10CAU	BZ6F*10CAU	BZ6F*10CAU
	Under voltage trip		R	BZ6R*10CAU	BZ6R*10CAU	BZ6R*10CAU
	Accessories with ter	minal block	Α	*1	*1	*1
External	Padlocking device (Cap type) *5	Q1	BZ6L10CA	BZ6L10CA	BZ6L10CA
accessories	Handle locking cove	er *5		BZ6L10C	BZ6L10C	BZ6L10C
	External operating		v	BZ6V10D	BZ6V10D	BZ6V10D
			N	BZ6N10D	BZ6N10D	BZ6N10D
	Field Installable	Flat terminal	kit	BZ-SU20B	BZ-SU25B	BZ-SU25B
	terminal kit	Lug terminal	kit	_	-	-
	Terminal covers *3	for screw, sh	ort type	Provided	Provided	Provided
		for screw, lo		BW9BTAA-L3W	BW9BTAA-L3W	BW9BTAA-L3W
		for flat termin		-	-	-
		for Lug term		_	_	_
	Insulation barrier *:			BZ6B10C	BZ6B10C	BZ6B10C
) (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)

^{*5} Non-UL item

^{●:} Available, -: Not available

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

-	A)			125		250		
Туре				EW125JAGU	EW125RAGU	EW250JAGU	EW250RAGU	
Appearance								
(with Screw T	Terminals, 3 poles)			le et				
SCCR=UL489 interrupting capacity				• 2 c				
Rated voltage	e AC (V)		UL	240-480	240-480	240-480	240-480	
			IEC	100-230-440	100-230-440	100-230-440	100-230-440	
Rated curren	nt (A)			15,20,30,40,50,60,75,100	0,125	125,150,160,175,200,22	25,250	
nstantaneous	Rated Sensitive Cu	ırrent (mA)	В	30	30	30	30	
rip type	Tripping time (s)			0.1 or less	0.1 or less	0.1 or less	0.1 or less	
nstantaneous	Rated Sensitive Cu	ırrent (mA)	K	100/200/500/1000	100/200/500/1000	100/200/500/1000	100/200/500/1000	
time-delay	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	
rip type	Inertia non-tripping	time (s)	1	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 freque	ency (Hz)			50/60	50/60	50/60	50/60	
Rated	UL489	AC	480V/△	30	50	30	50	
nterrupting capacity	CAN/CSA C22.2	AC	480V/Y	30	50	30	50	
	No.5		480V/Y	50	100	50	100	
ym (kA)	.=							
	IEC60947-2 JIS C 8201-2-2	AC	440V	30/15	50/25	30/15	50/25	
	GB14048.2		415V	30/15	50/25	30/15	50/25	
			380V	30/15	50/25	30/15	50/25	
			240V	50/25	100/50	50/25	100/50	
			100V	50/25	100/50	50/25	100/50	
ļ		AC	400V	30/15	50/25	30/15	50/25	
ļ	lcu/lcs		230V	50/25	100/50	50/25	100/50	
Dimension	L-2-4	L_d_u	а	3.543(90)	3.543(90)	4.134(105)	4.134(105)	
nch (mm)		u d	b	6.372(171)	6.372(171)	7.126(181)	7.126(181)	
	□ b	4	c	2.677(68)	2.677(68)	2.677(68)	2.677(68)	
		4	d	3.740(95)	3.740(95)	3.740(95)	3.740(95)	
Farmedia al	Screw terminals		None	0.7 40(00)	0.740(33)	0.7 40(00)	0.7 40(00)	
Terminal construction								
Onstruction	Flat terminals		SF	•	•	•	•	
	Lug terminals		SB	l •				
	Auxiliary switch		W	BW9W1SG0(-R)	BW9W1SG0(-R)	BW9W1SG0(-R)	BW9W1SG0(-R)	
	Auxiliary switch Auxiliary switch for	low current	W 1	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)	
	Auxiliary switch for Alarm switch		W 1 K	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	
	Auxiliary switch for		W 1	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)	BW9W1DG0(-R)	
	Auxiliary switch for Alarm switch	w current	W 1 K	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R)	
	Auxiliary switch for land Alarm switch Alarm switch for love	w current witch	W 1 K 8	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R)	
	Auxiliary switch for land Alarm switch Alarm switch for low Auxiliary & Alarm s	w current witch	W 1 K 8 WK	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R)	
	Auxiliary switch for low Alarm switch For low Auxiliary & Alarm s Aux. & Alarm for low	w current witch	W 1 K 8 WK 18	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R)	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R)	
	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip	w current witch w current	W 1 K 8 WK 18 F	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	
	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch **2	w current witch w current	W 1 K 8 WK 18 F R L	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA*	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for Iou Auxiliary & Alarm s Aux. & Alarm for Iou Shunt trip Under voltage trip Earth alarm switch ** Accessories with ter	w current witch w current 2 minal block	W 1 K 8 WK 18 F R L A	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* \$\int \text{\tin\text{\texi\text{\text{\texi\text{\text{\text{\text{\text{\text{\text{\texi\text{\	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch **2	w current witch w current 2 minal block	W 1 K 8 WK 18 F R L A	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3	w current witch w current 2 minal block 3	W 1 K 8 WK 118 F R L A Q1 Q2	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* \$\text{\Lambda}\$ See page 22 BW9Q1CA BW9Q2GA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for Iou Auxiliary & Alarm s Aux. & Alarm for Iou Shunt trip Under voltage trip Earth alarm switch ** Accessories with ter	w current witch w current 2 minal block 3	W 1 K 8 WK 18 F R L A Q1 Q2 V	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* \$\textstyle{\text	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3	w current witch w current 2 minal block 3	W 1 K 8 WK 18 F R L A Q1 Q2 V N	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9N0GA	
xternal	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch * Accessories with ter Padlocking device * External operating	w current witch w current 2 minal block 3 handle	W 1 K 8 WK 18 F R L A Q1 Q2 V N F	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9FOGA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9NOGA BW9FOGA	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *. External operating Field Installable	w current witch w current minal block a handle	W 1 K 8 WK 118 F R L A Q1 Q2 V N F aal kit	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA BW9FOCA BW9SSOCA-3 GLOBAL	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9FOGA BZ-S50B-2253 GLOBA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9NOGA BW9FOGA	
ccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch * Accessories with ter Padlocking device * External operating	w current witch w current minal block a handle Flat termir Lug termir	W 1 K 8 WK 118 F R L A Q1 Q2 V N F anal kitt	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA BW9F0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9FOGA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9F0GA	
eccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3 External operating Field Installable terminal kit Terminal covers	w current witch w current minal block a handle	W 1 K 8 WK 118 F R L A Q1 Q2 V N F anal kitt	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA BW9FOCA BW9SSOCA-3 GLOBAL	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9FOGA BZ-S50B-2253 GLOBA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9NOGA BW9FOGA	
eccessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch * Accessories with ter Padlocking device * External operating Field Installable terminal kit	w current witch w current minal block a handle Flat termir Lug termir	W 1 K 8 WK 118 F R L A Q1 Q2 V N F anal kit gray-white	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA BW9FOCA BW9SS0CA-3 GLOBAL BW9SLOCA-3 GLOBAL	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA BW9F0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9FOGA BZ-S50B-2253 GLOBA Please see page 28.	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9F0GA	
accessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3 External operating Field Installable terminal kit Terminal covers	w current witch w current 2 minal block 3 handle Flat termir Lug termir Short type,	W 1 K 8 WK 118 F R L A Q1 Q2 V N F nal kit nal kit gray-white transparent	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9N0CA BW9FOCA BW9FOCA BW9SS0CA-3 GLOBAL BW9SLOCA-3 GLOBAL	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA BW9F0CA	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9F0GA BZ-S50B-2253 GLOBA Please see page 28. Provided	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9F0GA L	
accessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3 External operating Field Installable terminal kit Terminal covers	w current witch w current 2 minal block 3 handle Flat termir Lug termir Short type, Short type, Long type, §	W 1 K 8 WK 118 F R L A Q1 Q2 V N F anal kit gray-white transparent gray-white	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9FOCA BW9FOCA BW9FOCA BW9SS0CA-3 GLOBAL BW9SLOCA-3 GLOBAL Provided BW9BTCA-S3	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA BW9F0CA Provided BW9BTCA-S3	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9F0GA BZ-S50B-2253 GLOBA Please see page 28. Provided BW9BTGA-S3 BW9BTGA-L3W	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9F0GA L Provided BW9BTGA-S3	
External accessories	Auxiliary switch for I Alarm switch Alarm switch for lov Auxiliary & Alarm s Aux. & Alarm for lov Shunt trip Under voltage trip Earth alarm switch *2 Accessories with ter Padlocking device *3 External operating Field Installable terminal kit Terminal covers	w current witch w current 2 minal block 3 handle Flat termir Lug termir Short type, Short type,	W 1 K 8 WK 118 F R L A Q1 Q2 V N F anal kit gray-white transparent gray-white	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9FOCA BW9FOCA BW9FOCA BW9S0CA-3 GLOBAL BW9SLOCA-3 GLOBAL Provided BW9BTCA-S3 BW9BTCA-L3W	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2CA BW9V0CA BW9NOCA BW9F0CA Provided BW9BTCA-S3 BW9BTCA-L3W	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* See page 22 BW9Q1CA BW9Q2GA BW9V0GA BW9N0GA BW9F0GA BZ-S50B-2253 GLOBA Please see page 28. Provided BW9BTGA-S3	BW9W1DG0(-R) BW9K1SG0(-R) BW9K1DG0(-R) BW9WKSG0(-R) BW9WKDG0(-R) BW9F*G0 BW9RGA* A See page 22 BWQ1CA BW9Q2GA BW9V0GA BW9F0GA BW9F0GA L Provided BW9BTGA-S3 BW9BTGA-L3W	

^{*1} Short type terminal covers (gray-white) are supplied as standard.
*2 Right-side mount only.
*3 Non-UL item

^{●:} Available, -: Not available, **\(\Delta: \)**: Factory-install Order P/N Ex: EW125JAGU-3P015SBL

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

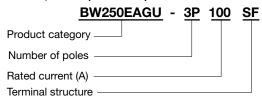
Frame size (A	A)			400			630
Туре				EW400SAGU	EW400RAGU	EW400HAGU	EW630RAGU
Appearance							
	minals, 3 poles)				L.L.C		0.50 5.01
SCCR=UL489	9 interrupting capaci	ty					
Rated voltag	e AC (V)		UL	240-480	240-480	240-480	240-480
			IEC	100-230-440	100-230-440	100-230-440	100-230-440
Rated curren	nt (A)			250, 300, 350, 400			500, 600, 630
Instantaneous	Rated Sensitive Cu	rrent (mA)	В	30	30	30	-
trip type	Tripping time (s)			0.1 or less	0.1 or less	0.1 or less	-
Instantaneous	Rated Sensitive Cu	rrent (mA)	K	100/200/500/1000	100/200/500/1000	100/200/500/1000	100/200/500/1000
/time-delay	Tripping time (s)		1	0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2	0.1/0.4/1/2
trip type	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 freque	ency (Hz)			50/60	50/60	50/60	50/60
Rated	UL489	AC	480V/△	35	50	65 (50: with lug terminals)	50
interrupting	CAN/CSA C22.2		480V/Y	35	50	65 (50: with lug terminals)	50
capacity sym (kA)	No.5		240V	50	100	125	100
Sylli (KA)	IEC60947-2	AC	440V	36/18	50/25	70/35	50/25
	JIS C 8201-2-2 lcu/lcs		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	AC	400V	36/18	50/25	70/35	50/25
	lcu/lcs	/10	230V	85/43	100/50	125/63	100/50
Dimension	L-2-J	L	a	5.512(140)	5.512(140)	5.512(140)	8.268(210)
inch (mm)	- a -	FC+	b	10.12(257)	10.12(257)	10.12(257)	10.83(275)
		4	С	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	Screw terminals		_	-	-	-	-
construction	Flat terminals		None	•			•
	Lug terminals		SB				● *1
Internal	Auxiliary switch		W	BW9W1SHA	BW9W1SHA	BW9W1SHA	BW9W1SHA
accessories	Auxiliary switch, 2	contacts	V	BW9W2SHA	BW9W2SHA	BW9W2SHA	BW9W2SHA
	Aux. low current		1	BW9W1DHA	BW9W1DHA	BW9W1DHA	BW9W1DHA
	Aux. low current, 2 of	contacts	2	BW9W2DHA	BW9W2DHA	BW9W2DHA	BW9W2DHA
	Alarm switch		K	BW9K1SHA	BW9K1SHA	BW9W2BHA BW9K1SHA	BW9K1SHA
	Alarm switch, 2 con	tacts	J	BW9K1SHA	BW9K2SHA	BW9K2SHA	BW9K2SHA
	Alarm low current	-2010	8	BW9K1DHA	BW9K1DHA	BW9K1DHA	BW9K1DHA
	Alarm low current, 2) contacte	9	BW9K1DHA BW9K2DHA	BW9K2DHA	BW9K2DHA	BW9K2DHA
			1 -			DITOTALDITA	BW9FHA-*
	Shunt trip		F		BW9FHA-*	BW9FHA-*	
	Shunt trip		F B	BW9FHA-*	BW9FHA-*	BW9FHA-*	
	Under voltage trip		R	BW9RHA-*	BW9RHA-*	BW9RHA-*	BW9RHA-*
	Under voltage trip Earth alarm switch *2	!	R L	BW9RHA-*	BW9RHA-*	BW9RHA-* ▲	BW9RHA-* ▲
Evternal	Under voltage trip Earth alarm switch *2 Accessories with ten	e minal block	R L A	BW9RHA-* See page 22	BW9RHA-* See page 22	BW9RHA-* See page 22	BW9RHA-* See page 22
	Under voltage trip Earth alarm switch *2	e minal block	R L A QN	BW9RHA-* See page 22 BW9QNHA	BW9RHA-* See page 22 BW9QNHA	BW9RHA-* See page 22 BW9QNHA	BW9RHA-* See page 22 BW9QNHA
	Under voltage trip Earth alarm switch *2 Accessories with ten	e minal block	R L A QN Q2	BW9RHA-* See page 22 BW9QNHA BW9Q2HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA
	Under voltage trip Earth alarm switch *2 Accessories with ten Padlocking device *3	e minal block	R L A QN Q2 V	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA
	Under voltage trip Earth alarm switch *2 Accessories with ten	e minal block	R L A QN Q2 V	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA
	Under voltage trip Earth alarm switch *2 Accessories with ten Padlocking device *3 External operating	eminal block B handle	R L A QN Q2 V	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA -
	Under voltage trip Earth alarm switch *2 Accessories with ten Padlocking device *3 External operating Field Installable ter	minal block handle	R L A QN Q2 V N F	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA -	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9N0HA -	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA -
	Under voltage trip Earth alarm switch '2 Accessories with ten Padlocking device '3 External operating Field Installable ter Terminal covers	minal block handle minal Short type, (R L A QN Q2 V N F	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA
	Under voltage trip Earth alarm switch *2 Accessories with ten Padlocking device *3 External operating Field Installable ter	ninal block handle minal Short type, (Short type, 1	R L A QN Q2 V N F gray-white	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-S3	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-S3	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA
	Under voltage trip Earth alarm switch '2 Accessories with ten Padlocking device '3 External operating Field Installable ter Terminal covers	handle minal Short type, 1 Short type, 1 Long type, 2	R L A QN Q2 V N F F gray-white ransparent rray-white	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA BW9BTHA-L3W
External accessories	Under voltage trip Earth alarm switch *2 Accessories with ten Padlocking device *3 External operating Field Installable ter Terminal covers *4	ninal block handle minal Short type, (Short type, 1	R L A QN Q2 V N F F gray-white ransparent rray-white	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA BW9BTHA-L3W BW9BTHA-L3
	Under voltage trip Earth alarm switch '2 Accessories with ten Padlocking device '3 External operating Field Installable ter Terminal covers	handle minal Short type, 1 Short type, 1 Long type, 2	R L A QN Q2 V N F F gray-white ransparent rray-white	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V0HA BW9N0HA BW9F0HA - BW9BTHA-S3W BW9BTHA-L3W	BW9RHA-* See page 22 BW9QNHA BW9Q2HA BW9V2JA BW9N0JA BW9BTHA-L3W

^{*1} Lug Terminal is NOT available for 630 ampere.
*2 Right-side mount only
*3 Non-UL item
*4 Terminal covers are NOT supplied as standard.

•: Available, -: Not available, ... : Factory-install Order P/N Ex: EW400SAGU-3P250SBL

Part Number Structure

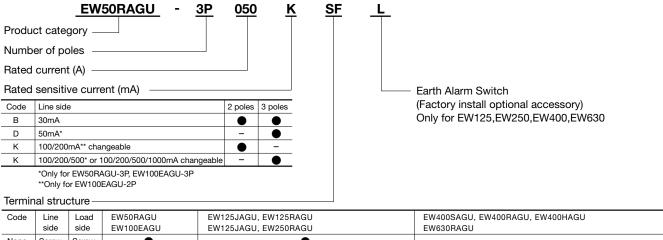
G-TWIN; MCCB (50 - 800AF)



Code	Line	Load	BW50RAGU	BW100EAGU, BW125RAGU, BW125RAGU	BW400EAGU, BW400SAGU, BW400RAGU, BW400HAGU
	side	side		BW250EAGU, BW125JAGU, BW250RAGU	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).

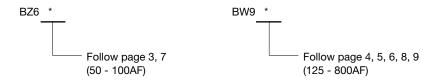
G-TWIN; ELCB (50 - 630AF)



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

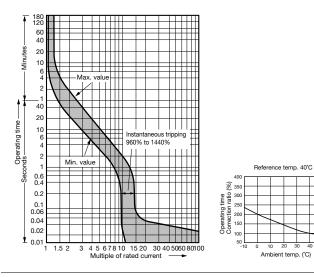
^{*1} Lug terminal is Not available for EW630RAGU-3P630 (Rated current 630 ampere in EW630).

G-TWIN; MCCB/ELCB Internal & External Accessories

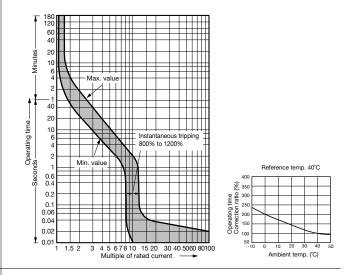


Characteristic Curves

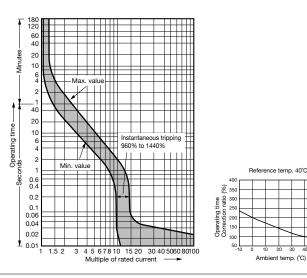
● BW50RAGU, EW50RAGU (Rated current: 5A, 10A, 32A, 40A)



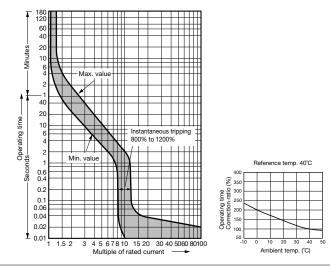
BW50RAGU, EW50RAGU (Rated current: 3A, 15A, 20A, 30A, 50A)



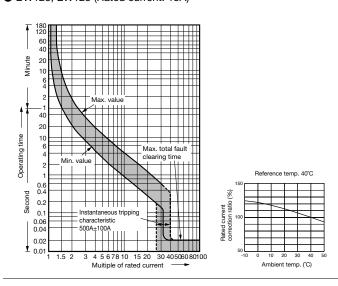
● BW100EAGU, EW100EAGU (Rated current: 60A, 63A, 75A, 80A, 90A)



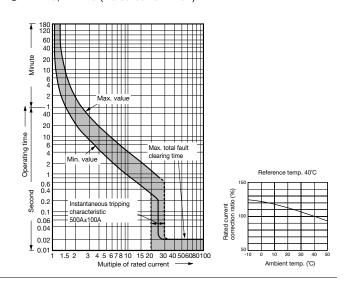
BW100EAGU, EW100EAGU (Rated current: 100A)



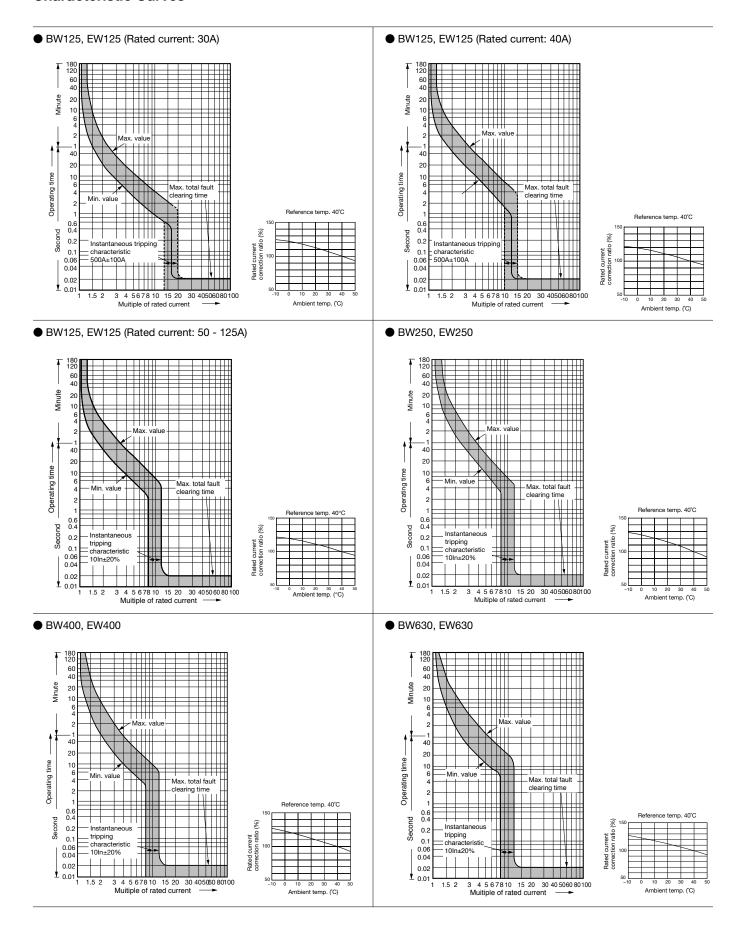
BW125, EW125 (Rated current: 15A)



BW125, EW125 (Rated current: 20A)

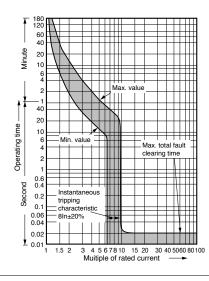


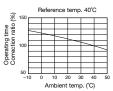
Characteristic Curves



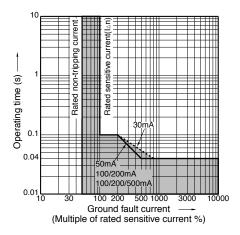
Characteristic Curves

● BW800



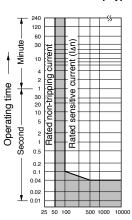


● Earth leakage tripping (EW50, EW100)



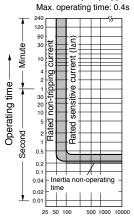
● Earth leakage tripping (EW125, EW250, EW400, EW630)

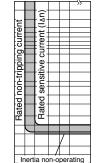
Instantaneous trip type



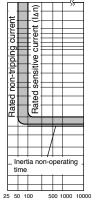
Ground fault current -(Multiple of rated sensitive current %)

Time-delay trip type





Max. operating time: 1s

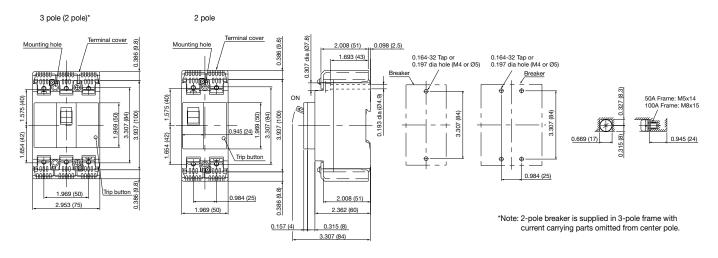


Max. operating time: 2s

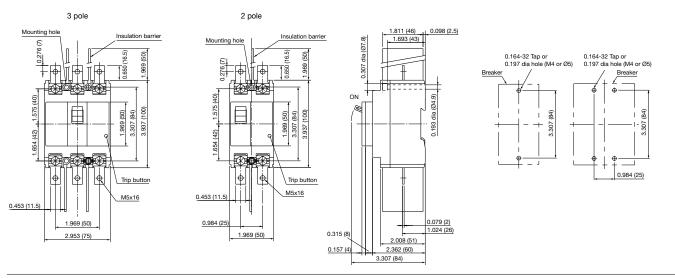
Ground fault current -(Multiple of rated sensitive current %)

time

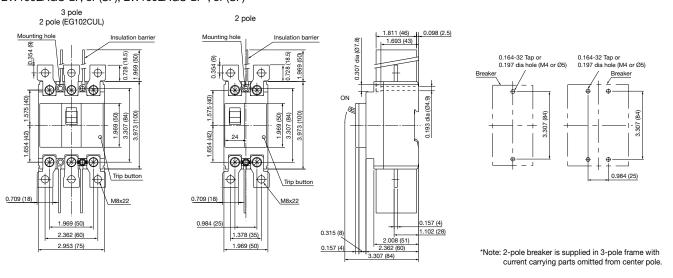
BW50RAGU-2P, 3P, BW100EAGU-2P, 3P, EW50RAGU-3P, EW100EAGU-2P*, 3P



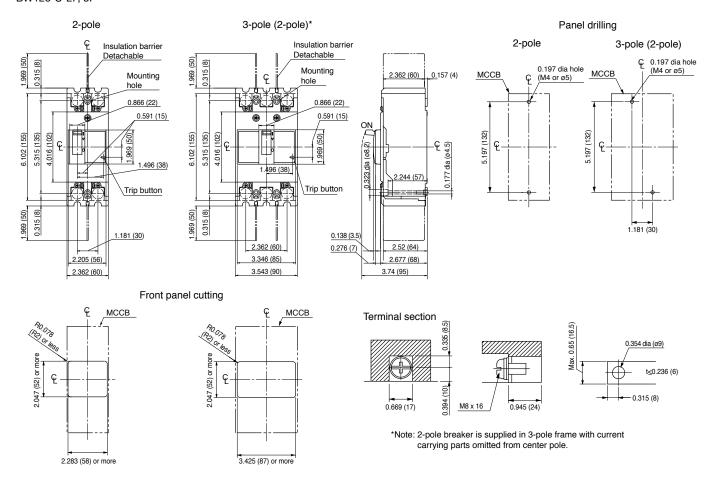
BW50RAGU-2P, 3P(SF), EW50RAGU-3P(SF)



BW100EAGU-2P, 3P(SF), EW100EAGU-2P*, 3P(SF)

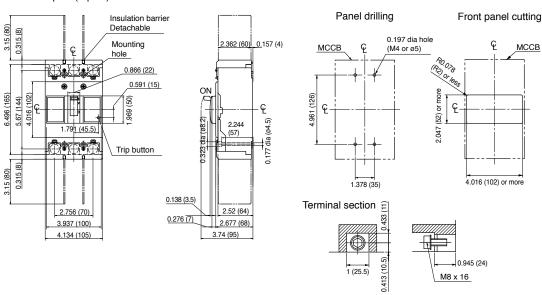


BW125*U-2P, 3P



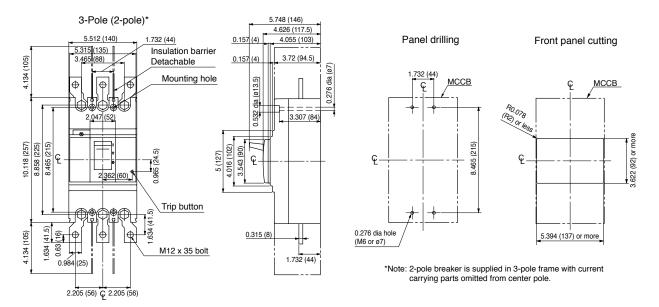
BW250*U-2P, 3P

3-pole (2-pole)*

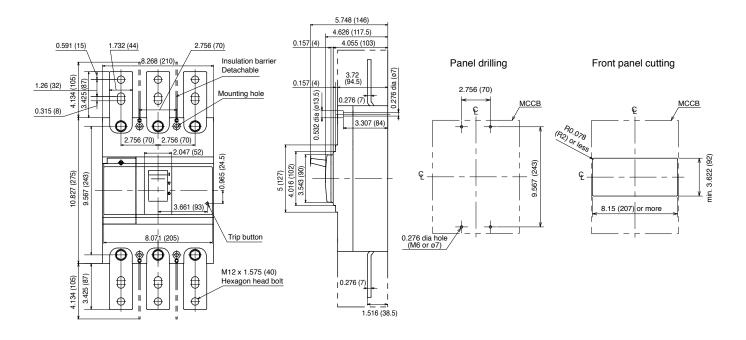


*Note: 2-pole breaker is supplied in 3-pole frame with current carrying parts omitted from center pole.

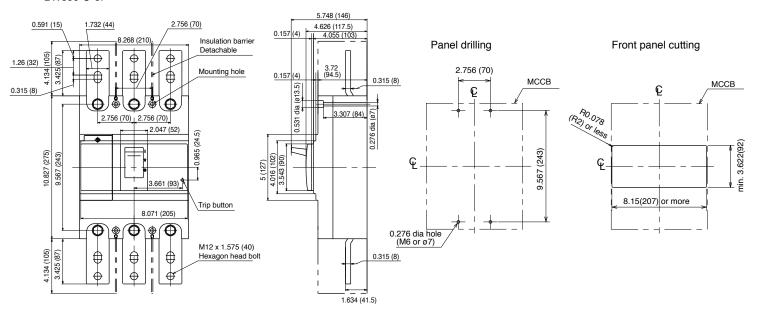
BW400*U-2P, 3P



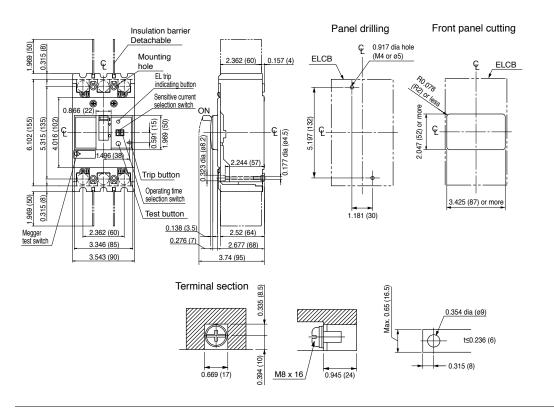
BW630*U-3P



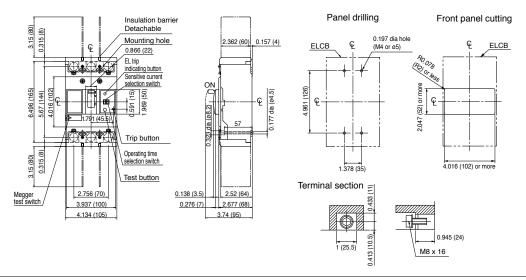
BW800*U-3P



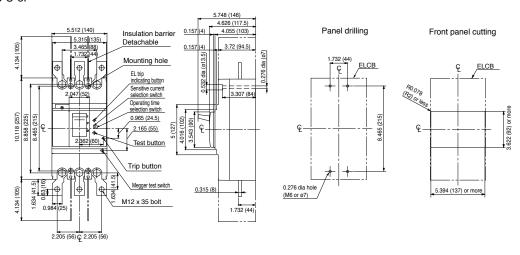
EW125*U-3P



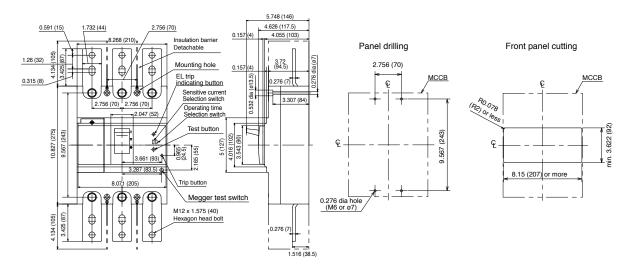
EW250*U-3P



EW400*U-3P

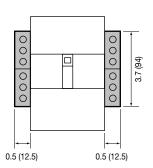


EW630RAGU-3P

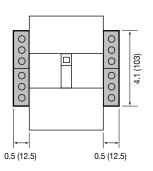


Dimensions of Terminal Blocks for Internal Accessories: inch (mm)

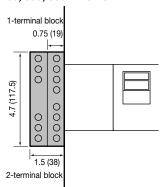
50, 100A Frame



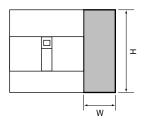
125, 250A Frame



400, 630, 800A Frame

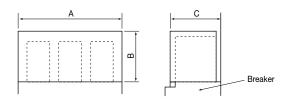


Dimensions of Undervoltage/Shunt trip device 50 and 100AF Only



Breakers	WxH
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)



Туре			Dimens	ions: Inch	(mm)	Applicable Breakers
Black	Transparent	Gray-white	Α	В	С	
-	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)	EW100EAGU-3P
	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)	EW123 0-31
	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 provied with BW50□U, BW100□U, BW125□U, BW250□U, EW100□U, EW125□U, EW250□U amp frame.

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 BZ6WDKDR10C				
*1 for 3 pole type only						

Aux & Alarm	WK	BZ6WKL10CU*1	BZ
Aux & Alarm low current	WDKD	BZ6WDKDL10CU*1	BZ

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 BZ6WKR10CA				
Aux & Alarm low current	71071 0171101111		BZ6WDKDR10CAU			

^{*1} for 3 pole type only

Rating

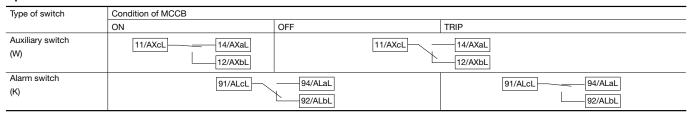
Standard; Aux, Alam

Breaker type	BW50RAGU, EW50RAGU BW100EAGU, EW100EAGU	Minimum load
Operating voltage	Rated current (A)	
120V AC	3.6	5V DC 160mA
240V AC	1.8	30V DC 30mA
125V DC	0.55	30V DO 30111A
250V DC	0.27	

For low current; Aux, Alam

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

Operation



Shunt trip devices

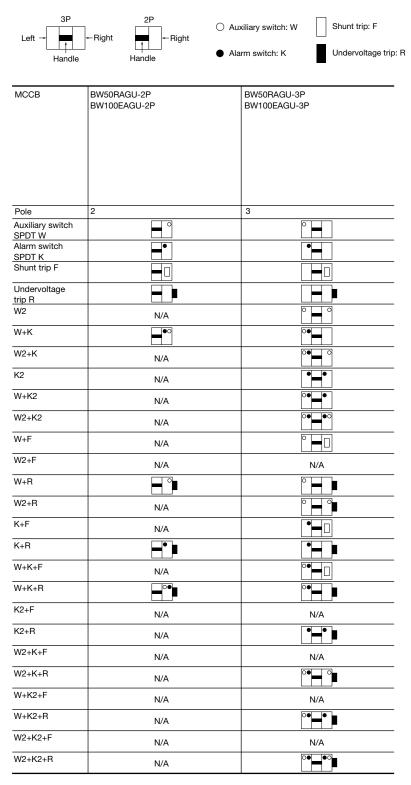
Breaker type	Operating voltage	Code	Par	t number	Spec		
• •			Lead wire type	With terminal block type	Input (VA)	Internal circuit	Time rating (ms)
BW50RAGU BW100EAGU	24VAC, 24VDC	FR	BZ6FR10CU	BZ6FR10CAU	150	Continuous with burnout	7-13
	100-120VAC 100-110VDC	FA	BZ6FA10CU	BZ6FA10CAU	150	prevention circuit	
	200-240VAC	FK	BZ6FK10CU	BZ6FK10CAU	150		
	380-450VAC	FP	BZ6FP10CU	BZ6FP10CAU	200		
EW50RAGU EW100EAGU	100VAC 50Hz 100-110VAC 60Hz	F2	-	BZ6F210CAU	16	Continuous	7-13
	200VAC 50Hz 200-220VAC 60Hz	F7	-	BZ6F710CAU	16		
	400VAC 50Hz 400-440VAC 60Hz	F8	-	BZ6F810CAU	22		

Undervoltage trip devices

Breaker type	Operating voltage	Code	Part n	Part number		Spec		
			Lead wire type	With terminal block type	Input	Operating voltage		
BW50RAGU BW100EAGU	100VAC 50Hz 100-110VAC 60Hz	R2	_	BZ6R210CAU	2.8 VA	Tripping voltage: 70% to 35% of rated voltage		
EW50RAGU	200VAC 50Hz 200-220VAC 60Hz	RW	-	BZ6RW10CAU	3.4 VA	Closing voltage:		
EW100EAGU	400VAC 50Hz 400-440VAC 60Hz	R9	-	BZ6R910CAU	4.4 VA	85% or more of rated voltage		
	24VDC	RF	-	BZ6RF10CAU	40W			

Internal Accessory Combinations for G-TWIN

50,100AF Breaker type: BW50, BW100, EW50, EW100



ELCB	EW50RAGU-3P	
	EW100EAGU-2P	
	EW100EAGU-3P	
Pole	2, 3	
Auxiliary switch		<u> </u>
SPDT W		
Alarm switch		
SPDT K		
Shunt trip F		
•		
Undervoltage		
trip R		
W2		<u> </u>
W+K		○●
W2+K		○●
K2		•_•
W+K2		○●
W2+K2		•
W+F		
W+R		
		<u> </u>
W2+R		
		<u> </u>
K+F		
K+R		•
K2+R		••
W+K+F		
W+K+R		
W2+K+R		○● ○ _
W+K2+R		• <u> </u>
W2+K2+R		000

Shunt trip: F (External mounting method)

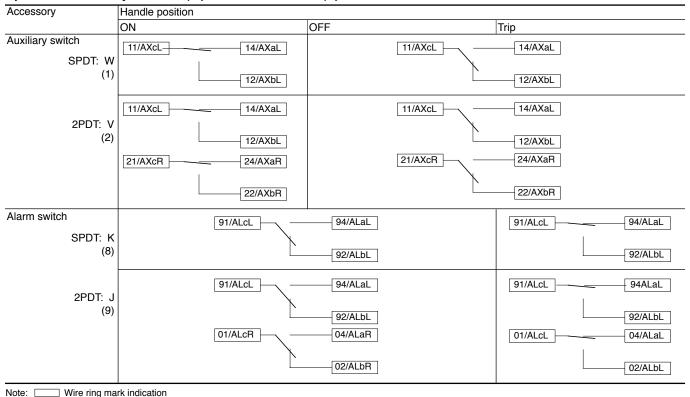
125, 250AF Breaker type: BW125, EW125, BW250, EW250

Accessory	Code	Part number		Operating voltge		
		Lead wire typ	е	With terminal b	lock 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	_	_	
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

400, 630, 800AF Breaker type: BW400, EW400, BW630, EW630, BW800

Accessory	Code	Part number		Operating voltge
		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	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

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



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	71 74	71 74
		72	72

Rating of auxiliary switches(W), alarm switches(K) and earth alarm switch(L)

Standard type

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

Low current type *1

Breaker type	Rated	Make/break cu	Minimum			
	thermal	AC		DC	load current	
	current (A)	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

^{*1} Low current type is NOT available for earth alarm switch

Rating of shunt trip (F)

Breaker type	AC		DC		Time rating of coil	Opearting time
<i>,</i> ,	V	VA	V	W		(ms)
BW125, BW250	24	50	24	50	Continuous	13-21
EW125, EW250	48	50	48	50	(With 1NO contact	
	100-120	50	100-110	50	to prevent coil burn-out)	
	120-130	50	-	-		
	200-240	50	200-220	50		
	277	50	-	-		
	380-440	50	-	_		
	440-480	50	-	-		
	500-550	50	_	_		
BW400, BW630, BW800 EW400, EW630	24-48	2	24-48	2	Continuous	8-20
	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	DC		
	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 BW800 *2	120-130	3	125	3	R1	
	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

Lead wire specification

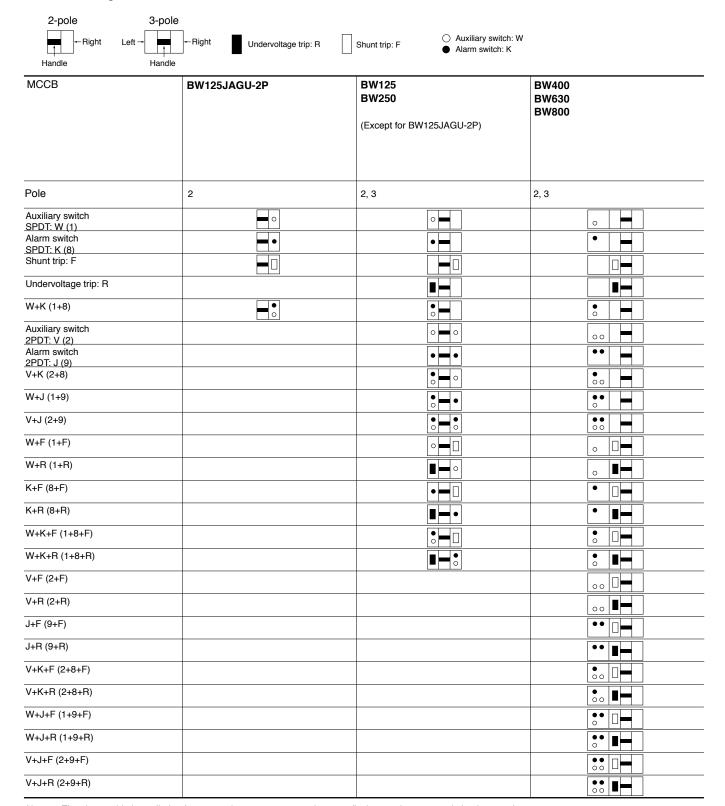
Wire size: AWG20 (0.5mm²) Wire length: 19.69 inch (500mm)

^{*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.

Internal Accessory Combinations for G-TWIN MCCB

Available configurations



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

2-pole 3-pole		
+-Right Left → Handle Handle	Right Undervoltage trip: R	Shunt trip: F Auxiliary switch: W Alarm switch: K Earth alarm switch: L (Factory-installed accessory)
ELCB	EW125 EW250	EW400 EW630
Pole	3	3
Auxiliary switch		
SPDT: W (1)	0	
Alarm switch	•=	• 📕
SPDT: K (8)		
Shunt trip: F		
Undervoltage trip: R		
W+K (1+8)	• —	• —
Auxiliary switch		00
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)		00 0
V+R (2+R)		00
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		

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)



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*-U3P
-	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.

Long type

Black	Transparent	Cross Minito	Dealing OTV	Applicable Prestrare
DIACK	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

^{*2} Not available with Flat terminal.

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

Terminal kits (Field installable)

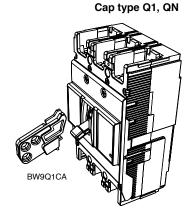
Flat Terminal Kits		Lug Terminal Kits		Applicable Breakers
Туре	Packing quantity	Type Packing quantity		
BZ-SU20B	3	-	-	BW50RAGU, EW50RAGU
BZ-SU25B	3	-	-	BW100EAGU, EW100EAGU
BW9SS0CA-3 GLOBAL	3	BW9SL0CA-3 GLOBAL	3	BW125, EW125
BZ-S50B-2253 GLOBAL	3	BW9SL0GA-3 GLOBAL	3	BW250, EW250 (125A-175A)
		BW9SL1GA-3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

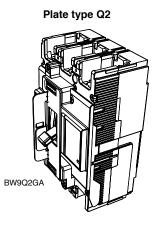
Padlocking device and Handle locking cover (Non UL items)

- 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		BZ6L10 C*1 (Non-UL)
BW125, EW125	BW9Q1CA		BW9Q2CA		Not available
BW250, EW250	BW9Q1CA	Non-UL	BW9Q2GA	Non-UL	Not available
BW400, EW400	BW9QNHA*1		BW9Q2HA		Not available
BW630, EW630, BW800	BW9QNHA*1		BW9Q2JA		Not available

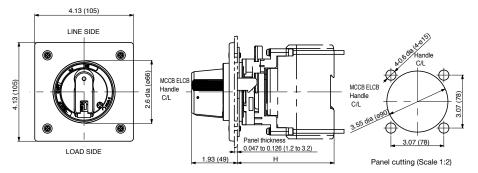
^{*1} ON and OFF locking is possible

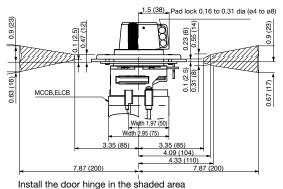




Note:*1 Insulation Barriers are required only for flat terminal type.
*2 Insulation Barriers for line side and load side are provided with the Breaker.

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



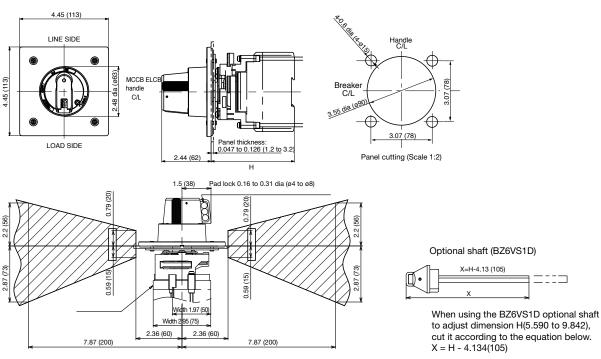


Breaker type	Handle type	H: inch(mm)	Mounting screw	Mass lb. (kg)
BW50RAGU	BZ6N10D	4.055±0.078	#8-32×3.149	1.04
EW50RAGU		(103±2)	(M4×80)	(0.47)
BW100EAGU				
EW100EAGU				

Note: • The handle cannot hold the enclosure door.

- Not available for side mounting.
- When using a Dust-proof packing, handle protection degree is IP 50 (IEC60529).

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



Install the door hinge in the shaded area.

Breaker type	Handle type	Standard type H: inch(mm)	With the optional shaft BZ6VS1D IX=6.102(155)		Mounting screw	Mass lb. (kg)
			H:inch(mm)	Area in which the hinge with H can be installed		
BW50RAGU EW50RAGU	BZ6V10D	4.134±0.078 (105±2)	9.842±0.078 (250±2)	5.590 to 9.842 (142 to 250)	#8-32×3.149 (M4×80)	1.41 (0.64)
BW100EAGU EW100EAGU						

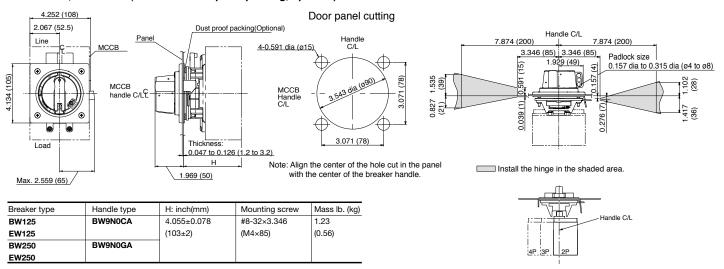
Note: • The handle cannot hold the enclosure door.

- Not available for side mounting.
 Handle protection degree is IP 54 (IEC60529, JIS C0920).

Operating Handles Dimensions: inch (mm)

125A, 250A Frame N type handle

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

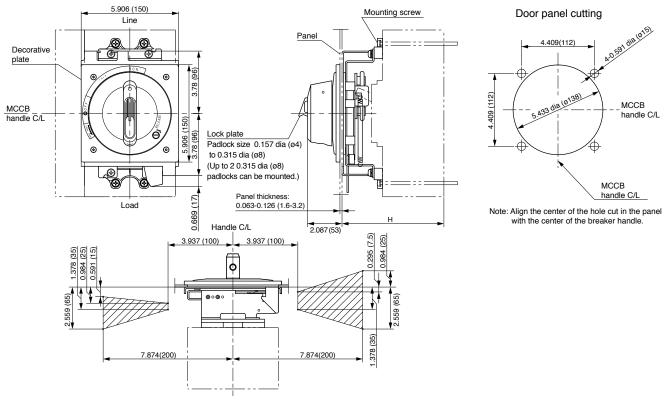


Note: • The handle cannot hold the enclosure door.

- Not available for side mounting.
 When using a Dust-proof packing, Handle protection degree is IP 50 (IEC60529).

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

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



Install the door hinge in the shaded area.

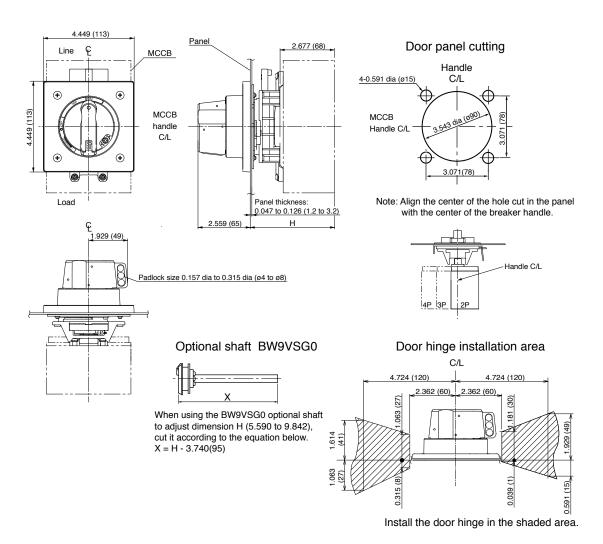
Breaker type	Handle type	H: inch(mm)	Mounting screw	Mass lb. (kg)
BW400	BW9N0HA	6.181±0.078	1/4-20×4.331	4.19
EW400		(157±2)	(M6×110)	(1.90)
BW630, BW800	BW9N0JA			
EW630				

Note: • The handle cannot hold the enclosure door.

- Not available for side mounting.
- When using a Dust-proof packing, Handle protection degree is IP 50 (IEC60529).

125A, 250A Frame V type handle

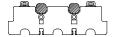
· BW9V0CA, BW9V0GA (BW9VSG0: optional shaft)



Breaker type	Handle type	Standard type H: inch(mm)	· ·		Mounting screw	Mass lb. (kg)
			H: inch(mm)	Area in which the hinge with H can be installed		
BW125 EW125	BW9V0CA*1	4.134±0.078 (105±2)	9.842±0.078 (250±2)	5.590 to 9.842 (142 to 250)	#8-32x3.346 M4 x 85	1.48 (0.67)
BW250 EW250	BW9V0GA*2					

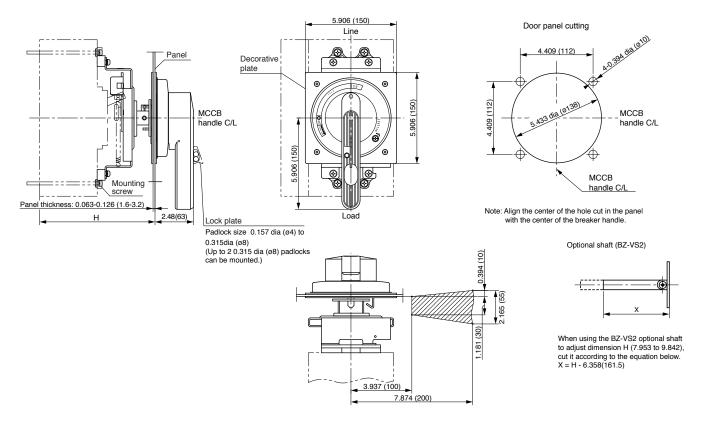
- The handle cannot hold the enclosure door.
 Not available for side mounting.

- Not available for side flourining.
 Handle protection degree is IP 54 (IEC60529,JIS C0920).
 Note that the external operating handle cannot be mounted to the BW125JAGU-2P. Use the BW125RAGU-2P.
 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.



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

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



Install the door hinge in the shaded area.

Breaker type	Handle type	Standard type H: inch(mm)	With the optional shaft BZ-VS2 X=3.504(89)		Mounting screw	Mass lb. (kg)
			H: inch(mm)	Area in which the hinge with H can be installed		
BW400	BW9V0HA	7.48±0.078	9.842±0.078	7.953 to 9.842	1/4-20X4.331	4.85
EW400		(190±2)	(250±2)	(202 to 250)	(M6X110)	(2.2)
BW630, BW800	BW9V0JA					
EW630						

Note: • The handle cannot hold the enclosure door.

- Not available for side mounting.
- Handle protection degree is IP 54 (IEC60529,JIS C0920).

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 (mm²)	Number of wires strands
14 – 2 (2.1 – 33.6)	7
1 – 4/0 (42.4 – 107.2)	19
250 – 500 (127 – 250)	37

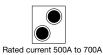
(mm²) Values are those converted from AWG or MCM size

- Two wires cannot be connected together to a single connecting hole of lug terminal except BW400SAGU-3P400SB.
- Follow the number of strands of wire indicated on the table. (Wire size and number of wire strands not listed on table can not be connected)
- Do not solder the end of the wire.











Rated current 400A

3/0 AWG x 2 19 strands each

Rated current 800A 300 MCM x 3 37 strands each

Max Wire Sizes and Tightening Torque

-		145 : 40		Tightening torque)	Applicable ring (crimp) terminal for screw type and flat type terminal breaker		
Type	Rated current (A)	Wire size*2 AWG or MCM (mm²)	Screw terminal	Flat terminal	Lug terminal	JST (UL file No.E42024)	NICHIFU (UL file No.E44245)	DST (UL file No.E74917)
BW50RAGU EW50RAGU	3 5 10	14 AWG (2.1mm²) 14 AWG (2.1mm²) 14 AWG (2.1mm²) 14 AWG (2.1mm²)	20-25 lbln (2.3-2.8 N-m)	31-40 lbin. (3.5-4.5 N-m)	-	R2-5	R2-5M R2-5	2-S5, 2-5
	20	12 AWG (3.3mm ²) 10 AWG (5.3mm ²)				R5.5-5	R3.5-5S, R3.5-5L 5.5-6N, R5.5-5S, R5.5-5	3.5-5, 5.5-S5, 5.5-5, 5.5-L5
	40 50	8 AWG (8.4mm ²) 8 AWG (8.4mm ²)				R8-5	R8-5S, R8-5	8-S5, 8-5
BW100EAGU	60	6 AWG (13.3mm ²)	49-66 lbIn	71-89 lbln	51 lb ln.	R14-8	R14-8S, R14-8	R14-S8, R14-8
EW100EAGU	75	4 AWG (21.1mm²)	(5.5-7.5 N-m)	(8-10 N-m)	(5.8 N-m)	22-S8	R22-8S, R22-8	R22-S8, 22-8
	100	3 AWG (26.7mm ²)				38-S8	R38-8S	38-S8
3W125	15	14 AWG (2.1mm²)	51 lb ln.	51 lb ln.	51 lb ln.	R2-8	R2-8	2-8, 2-B8
W125	20	12 AWG (3.3mm²) 10 AWG (5.3mm²)	(5.8 N-m)	(5.8 N-m)	(5.8 N-m)	5.5-S8, R5.5-8	R3.5-8, R5.5-8	3.5-8, 5.5-8 5.5-8
	40	8 AWG (8.4mm²)				8-8NS, R8-8	R8-8	8-8
	60	6 AWG (13.3mm ²)	-			14-8NS, 14-S8, R14-8	R14-8S, R14-8	14-S8, 14-8
	70 75 	4 AWG (21.1mm²)				22-S8, R22-8, CB22-S8	R22-8S, R22-8, CB22-8S	
	90	3 AWG (26.7mm²)				38-S8	R38-8S	38-S8
3W250	125	1 AWG (42.4mm²)	93 lb ln.	93 lb In.	204 lb In.	38-S8, R38-8	R38-S, R38-8	38-S8, 38-8
W250	150	1/0 AWG (53.5mm²)	(10.5 N-m)	(10.5 N-m)	(23 N-m)	60-S8, R60-8	R60-8, CB60-8, CB60-8S	
	175	2/0 AWG (67.4mm²)	-			70-8	R70-8	70-8
	200	3/0 AWG (85.0mm²)	-			CB80-S8	- '	CB80-8
	225	4/0 AWG (107.2mm²)	-			CB100-S8		CB100-8
	250	250 MCM (127mm²)				CB150-S8	CB150-S8	CB150-8
3W400	250	250 MCM (127mm²)	-	385 lb In.	385 lb In.	150-12	R150-12	-
W400	300	350 MCM (177mm²)		(43.5 N-m)	(43.5 N-m)	180-12	R180-12	-
	350	500 MCM (253mm²)				325-12	R325-12N	-
	400	3/0 AWGx 2 (85.0mm ² x2)			282 lb In. (31.9 N-m)	R80-12	R80-12	-
		500 MCM (253mm ²)			-	325-12	R325-12N	-
W630	500	250 MCM x 2	-	416 lb In.	275 lb In.	R150-12	R150-12	-
W630	600	350 MCM x 2	(47.1 N-m) (31.1 N-m)		180-12	R180-12	-	
	630	500 MCM x 2	1		-	325-12	R325-12N	-
3W800	700	500 MCM x 2	-	416 lb In. (47.1 N-m)	275 lb In. (31.1 N-m)	325-12	R325-12N	-
	800	300 MCMx3	1	f:		-	-	

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

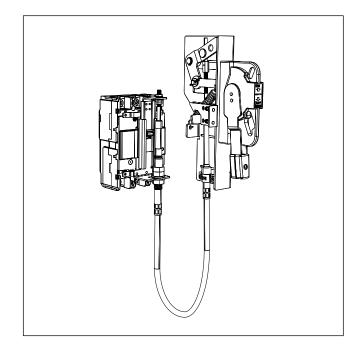
Flange Disconnect Handle <F Type Handle>

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 (ϕ 10) 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 fram	ne 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	мссв	BW125JAGU*1	BW250EAGU	BW400EAGU	BW630RAGU		
		BW125RAGU	BW250JAGU	BW400SAGU	BW630HAGU		
			BW250RAGU	BW400RAGU	BW800RAGU		
				BW400HAGU	BW800HAGU		
	ELCB	EW125JAGU	EW250JAGU	EW400SAGU	EW630RAGU		
		EW125RAGU	EW250RAGU	EW400RAGU			
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 t	urned 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>

1.142

0.197 dia

0.512

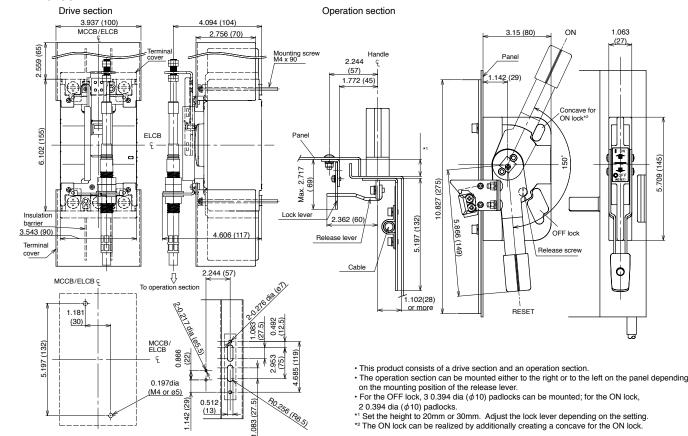
(13)

Panel drilling

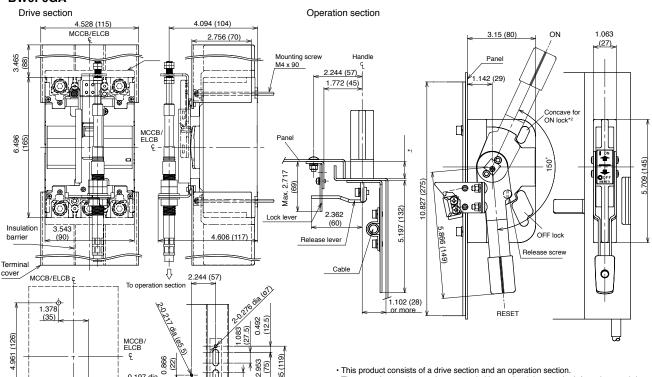
Panel drilling

Dimensions: inch (mm)

· BW9F0CA



· BW9F0GA



-RO.256 [R6.5]

.083 (27.5)

This product consists of a drive section and an operation section.

on the mounting position of the release lever.

2 0.394 dia (ϕ 10) padlocks

 \bullet For the OFF lock, 3 0.394 dia (ϕ 10) padlocks can be mounted; for the ON lock, 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.

• The operation section can be mounted either to the right or to the left on the panel depending

*2 The ON lock can be realized by additionally creating a concave for the ON lock.

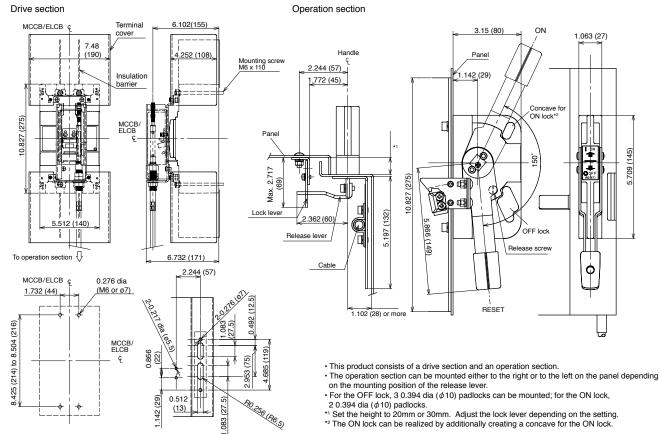
35

Flange Disconnect Handle <F Type Handle>

Panel drilling

Dimensions: inch (mm)

· BW9F0HA



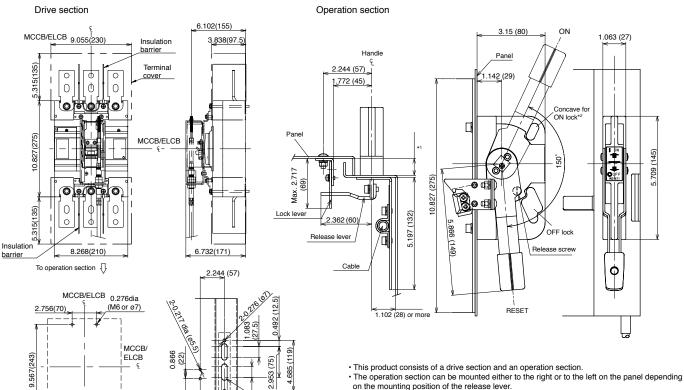
*1 Set the height to 20mm or 30mm. Adjust the lock lever depending on the setting. *2 The ON lock can be realized by additionally creating a concave for the ON lock.

• For the OFF lock, 3 0.394 dia (ϕ 10) padlocks can be mounted; for the ON lock,

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.

2 0.394 dia (φ10) padlocks.

· BW9F0JA



RO.256 (R6.5)

.083 (27.5)

Panel drilling

(29)

Discontinue date: March 1989~December 2010

							cuit Breakers
	Series	Fran	ne size	Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models ^{*1}	Replacement - UL48 (Non-UL)
series	Non-UL	30AF	2 poles	EA32	BW50RAGU-2P	EG32F / EG32A	(EW32AAG-2P)
			3 poles	EA33	BW50RAGU-3P	EG33F / EG33A / EG33B	EW50RAGU-3P
		50AF	2 poles	EA52A	BW50RAGU-2P	EG52F	(EW50AAG-2P)
		00/	2 poiso	EA52B	BW50RAGU-2P	EGa52A	(EW50AAG-2P)
			3 poles	EA53A	BW50RAGU-3P	EG53F / EG53A / EG53AH	EW50RAGU-3P
			o poics	EA53B	BW50RAGU-3P	EG53B	EW50RAGU-3P
		60AF	2 poles	EA62B	BW100EAGU-2P	EGGOD	EVVOORIAGO OF
		OOAI	3 poles	EA63B	BW100EAGU-3P	EG63A / EG63AH / EG63B	EW100EAGU-3P
		100AF	2 poles	EA102A / EA102B	BW100EAGU-2P	EG102A / EG102B	EW100EAGU-2P
		TOUAF	2 poics	EA102H	BW125JAGU-2P	EGIOZA/ EGIOZB	LW 100LAGO-21
			3 poles	EA102F	BW100EAGU-3P	EG103F / EG103A / EG103B	EW100EAGU-3P
			3 poles	EA103A / EA103B	BW100EAGU-3P	EG103AD / EG103BD	EW125JAGU-3P
			4	EA103H / EA103K	BW125JAGU-3P	EG103K	EW100EAGU-3P
			4 poles	EA104B	(BW125JAG-4P)	SGa104A(D)	(EW125JAG-4P)
		225AF	2 poles	EA202A / EA202B / EA202C	BW250EAGU-2P	-	-
				EA202H	BW250JAGU-2P	-	
			3 poles	EA203A / EA203B / EA203C	BW250EAGU-3P	EGa203A(D)/EG203B(D)/EG203C(D)	EW250JAGU-3P
				EA203H	BW250JAGU-3P	-	-
		400AF	2 poles	EA402A / EA402B / EA402C	BW400EAGU-2P	-	-
			3 poles	EA403A / EA403B / EA403C	BW400EAGU-3P	EGa403A(D)/EG403B(D)/EG403C(D)	EW400SAGU-3P
		600AF	3 poles	EA603A / EA603B / EA603C	BW630RAGU-3P	EGa603A(D)/EG603B(D)/EG603C(D)	EW630RAGU-3P
		800AF	3 poles	EA803A / EA803B / EA803C	BW800RAGU-3P	EGa803A(D)/EG803B(D)/EG803C(D)	(EW800EAG-3P)
	UL508	30AF	2 poles	EA32AC	BW50RAGU-2P	EG32AC	(EW32AAG-2P)
			3 poles	EA33AC	BW50RAGU-3P	EG33AC / EG33C	EW50RAGU-3P
		50AF	2 poles	EA52BUL / EA52AC / EA52C	BW50RAGU-2P	EG52AC	(EW50AAG-2P)
			3 poles	EA53BUL / EA53AC / EA53C	BW50RAGU-3P	EG53AC / EG53C	EW50RAGU-3P
		60AF	2 poles	EA62C	BW100EAGU-2P	-	-
			3 poles	EA63C	BW100EAGU-3P	EG63C	EW100EAGU-3P
		100AF	2 poles	EA102C	BW100EAGU-2P	EG102C	EW100EAGU-2P
			3 poles	EA103BUL/EA103AC/EA103C	BW100EAGU-3P	EG103AC / EG103C	EW100EAGU-3P
				-	-	EG103CD	EW125JAGU-3P
	UL489	100AF	2 poles	EA102CUL	BW100EAGU-2P	EG102CUL	EW100EAGU-2P
			3 poles	EA103CUL	BW100EAGU-3P	EG103CUL	EW100EAGU-3P
series	Non-UL	30AF	2 poles	SA32B	BW50RAGU-2P	-	-
			3 poles	SA33B	BW50RAGU-3P	SG33 / SG33A / SG33B	EW50RAGU-3P
		50AF	2 poles	SA52B / SA52R	BW50RAGU-2P	-	-
		00/	'	SA52H	(BW50HAG-2P)	_	_
			3 poles	SA53B / SA53R	BW50RAGU-3P	SG53/SG53A/SG53B/SG53R	EW50RAGU-3P
			o poico	SA53H	(BW50HAG-3P)	-	-
			4 poles	SA54B	(BW125JAG-4P)		
		60AF	2 poles	A62B / SA62B / SA62R	BW100EAGU-2P		
		OUAF	3 poles	SA63 / SA63B / SA63R	BW100EAGU-3P	SG63/SG63A/SG63B/SG63R	EW100EAGU-3P
		10045	2 poles	SA102A / SA102B / SA102C		3403/3403A/3403B/3403H	LW 100LAGO-31
		100AF	2 poles			ļ -	-
				SA102H / SA102R / SA102RC		-	-
				SA102BA	BW125JAGU-2P	-	-
				SA102RA	BW125RAGU-2P	-	-
				SA102K	BW125JAGU-2P	-	-
			3 poles	SA103A / SA103B / SA103BA	BW125JAGU-3P	SGa103A(D) / SG103B(D)	EW125JAGU-3P
				SA103C		SG103C(D)	
				SA103H / SA103R / SA103RA	BW125RAGU-3P	SG103H(D) / SG103R(D)	EW125RAGU-3P
				SA103RC		SG103RC(D)	
				SA103BN/SA103BAN/SA103CN		SG103BA(D)	EW125JAGU-3P
				SA103RN/SA103RAN/SA103RCN		SG103RA(D)	EW125RAGU-3P
				SA103K	BW125JAGU-3P	-	=
			4 poles	SA104A	(BW125JAG-4P)	-	-
				SA104H / SA104R	(BW125RAG-4P)	SGa104H(D)	(EW125RAG-4P)
		225AF	2 poles	SA202A / SA202B / SA202C	BW250JAGU-2P	-	-
				SA202H / SA202R / SA202RC	BW250RAGU-2P	-	-
				SA202BA	BW250JAGU-2P	-	-
		1	1			1	
				SA202RA	BW250RAGU-2P	-	-

Note; All accessories discontinued as well.
- : No replacement
*1: 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 date : March 1989~December 2010

			Molded Cas	se Circuit Breakers	Earth Leakage	Circuit Breakers
Series	Fran	ne size	Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*1	Replacement - UL489 (Non-UL)
H series Non-UL	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)
	400AF	2 poles	H402B / H402C	BW400HAGU-2P	-	
			H402BN / H402CN	(BW400HAA-2P)	-	-
		3 poles	H403B / H403C	BW400HAGU-3P	HG403B(D) / HG403C(D)	EW400HAGU-3P
			H403BN/H403CN	(BW400HAA-3P)	HG403BN(D) / HG403CN(D)	-
	600AF	3 poles	H603B / H603C	BW630HAGU-3P	HG603B(D) / HG603C(D)	(EW630HAG-3P)
			H603BN / H603CN	(BW630HAA-3P)	HG603BN(D) / HG603CN(D)	-
	800AF	3 poles	H803B / H803C	BW800HAGU-3P	HG803B(D)/ HG803C(D)	(EW800HAG-3P)
			H803BN / H803CN	(BW800HAA-3P)	HG803BN(D) / HG803CN(D)	-

Note; All accessories discontinued as well.

Discontinued Accessories for above circuit breakers.

	Discontinued models	Replacement
Operating Handles	G-3A / G-5A / G-12A / G-22A / G-42	- (Need to replace with new breaker)
(V type)	G-21A / G-22A / G-41A / G-81A	
	BZ-G10B	
	BZ-V20C / BZ-V20C-E	
	BZ6V10C	
	BZ6V10CP	BZ6V10D
	BZ-V20B-3-Z	OEM item - Contact original machine make
	BZ-V30C / BZ-V30C-E	- (Need to replace with new breaker)
	BZ-V30C-S / BZ-V30C-ES / BZ-V30C-EUL	- (Need to replace with new breaker)
	BZ-V40B-Z	OEM item - Contact original machine maker
	BZ-V40C / BZ-V40C-E	- (Need to replace with new breaker)
	BZ-V40C-S / BZ-V40C-ES / BZ-V40C-EUL	- (Need to replace with new breaker)
	BZ-V60B-Z	OEM item - Contact original machine maker
	BZ-V70C-E	- (Need to replace with new breaker)
Operating Handles	N-3A / N-6A / N-13A / N-21A / N-23A	- (Need to replace with new breaker)
N type)	N-41A / N-120A	
iv type)	BZ-N20C	
	BZ6N10C	
	BZ6N10CP	BZ6V10D
	BZ-N30C	- (Need to replace with new breaker)
	BZ-N30C-****	OEM item - Contact original machine maker
	BZ-N40B	- (Need to replace with new breaker)
	BZ-N40B-****	OEM item - Contact original machine maker
	BZ-N40C	- (Need to replace with new breaker)
	BZ-N60B / BZ-N60C	
	BZ-N70C	
Handle Lock Covers	BZ-L30C	
	BZ-L40C	
Mechanical Interlock	BZ-M130C-2	
	BZ-S60B-225*	
	BZ-E30C-100*	

^{-:} No replacement

1: 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 date : March 1989 \sim December 2010

				Molada dasa d	Circuit Breakers	Eurin Eounug	e Circuit Breakers
Series		Frame size		Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*1	Replacement - UL489 (Non-UL)
series	Non-UL	225AF 3 poles		SA203A/SA203B/SA203BA SA203C	BW250JAGU-3P	SGa203A(D) / SG203B(D) SG203C(D)	EW250JAGU-3P
				SA203H/SA203R/SA203RA	BW250RAGU-3P	SG203H(D) / SG203R(D)	EW250RAGU-3P
				SA203RC		SG203RC(D)	
				SA203BN/SA203BAN/SA203CN	-	SG203BA(D)	EW250JAGU-3P
				SA203RN/SA203RAN/SA203RCN	-	SG203RA(D)	EW250RAGU-3P
				SA203K	BW250EAGU-3P	-	-
			4 poles	-	-	SGa204A(D)	(EW250JAG-4P)
			'	SA204H / SA204R	(BW250RAG-4P)	SG204H(D)	(EW250RAG-4P)
		400AF	2 poles	SA402K/SA402B/SA402C	BW400SAGU-2P	-	-
		400AF	2 poiss	SA402H/SA402R/SA402RC	BW400RAGU-2P	-	-
				SA402BN / SA402CN	(BW400SAA-2P)		
				SA402RN / SA402RCN	(BW400RAA-2P)		
			3 poles	SA403K / SA403B / SA403C	BW400SAGU-3P	SGa403A(D) / SG403B(D)	EW400SAGU-3P
			3 poles			SG403C(D)	
				SA403H/SA403R/SA403RC	BW400RAGU-3P	SG403H(D) / SG403R(D) SG403RC(D)	EW400RAGU-3P
				SA403BN / SA403CN	(BW400SAA-3P)		
				SA403RN / SA403RCN	(BW400RAA-3P)		
				SA403L	BW400HAGU-3P		
			4 poles	SA404H / SA404HA	(BW400RAG-4P)	SGa404A(D)	(EW400RAG-4P)
		600AF	3 poles	SA603 / SA603H / SA603R SA603RC	BW630RAGU-3P	SG603H(D) / SG603R(D) SG603RC(D)	EW630RAGU-3P
				SA603RN / SA603RCN	(BW630RAA-3P)	-	-
				SA603L	BW630HAGU-3P	-	-
			4 poles	SA604H	(BW630RAG-4P)	-	_
		800AF	3 poles	SA803H/SA803R/SA803RC	BW800RAGU-3P	SG803H(D) / SG803R(D) SG803RC(D)	(EW800RAG-3P)
				SA803RN	(BW800RAA-3P)	-	-
				SA803L	BW800HAGU-3P	-	_
			4 poles	SA804H	(BW800RAG-4P)	-	_
	UL508	30AF	2 poles	SA32BUL / SA32C	BW50RAGU-2P	-	_
	OLJOO	JUAF	3 poles	SA33BUL / SA33C	BW50RAGU-3P	SG33C	EW50RAGU-3P
		FOAF	2 poles	SA52BUL / SA52RUL	BW50RAGU-2P	-	-
		50AF	2 poics	SA52C / SA52RC	BWOON NGO EN	_	_
			3 poles	SA53BUL / SA53RUL	BW50RAGU-3P	_	-
			3 poles	SA53C / SA53RC	DW30NAGO-31	SG53C / SG53RC	EW50RAGU-3P
		2015	2 poles	SA62BUL / SA62RUL	BW100EAGU-2P	-	-
		60AF	2 poles	SA62C / SA62RC	DW100LAG0-21	_	-
			0		BW100EAGU-3P	-	-
			3 poles	SA63BUL / SA63RUL	BW100EAGU-3P	SG63C / SG63RC	- FINALOGE A CALL OF
				SA63C / SA63RC	DIMEODA OLL OD	SG03C / SG03RC	EW100EAGU-3P
	UL489	50AF	2 poles	SA52RCUL	BW50RAGU-2P	- COEGROUII	-
			3 poles	SA53RCUL	BW50RAGU-3P	SG53RCUL	EW50RAGU-3P
		100AF	2 poles	SA102BAUL / SA102CUL	BW125JAGU-2P	-	-
				SA102RAUL / SA102RCUL	BW125RAGU-2P	-	-
			3 poles	SA103BAUL / SA103CUL	BW125JAGU-3P	SG103BAUL / SG103CUL	EW125JAGU-3P
				SA103RAUL / SA103RCUL	BW125RAGU-3P	-	-
		225AF	2 poles	SA202BAUL / SA202CUL	BW250JAGU-2P	-	-
				SA202RAUL / SA202RCUL	BW250RAGU-2P	-	-
			3 poles	SA203BAUL / SA203CUL	BW250JAGU-3P	SG203BAUL / SG203CUL	EW250JAGU-3P
				SA203RAUL / SA203RCUL	BW250RAGU-3P	-	-
		400AF	2 poles	SA402BUL / SA402CUL	BW400SAGU-2P	-	-
			3 poles	SA403BUL / SA403CUL	BW400SAGU-3P	SG403CUL	EW400SAGU-3P
			2 poles	SA402RUL / SA402RCUL	BW400RAGU-2P	-	-
			3 poles	SA403RUL / SA403RCUL	BW400RAGU-3P	-	-
		600AF	3 poles	SA603RUL / SA603RCUL	BW630RAGU-3P	-	-
		800AF	3 poles	SA803RUL / SA803RCUL	BW800RAGU-3P	-	_

Note; All accessories discontinued as well.

^{*1:} 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 date: March 1989 ~ October 2011

			Molded Case Circuit		
Series	Fran	ne size	Discontinued Models	Replacement - UL489 (Non-UL)	Reference
U series UL489	100AF	2 poles	BU-ECA2 / BU2ECC (5-50A)	BW50RAGU-2P	
	1.2.2	2 poiss	(60-100A)	BW100EAGU-2P	
240VAC			BU-ECA2	-	
		3 poles	BU-ECA3 / BU3ECC (5-50A)	BW50RAGU-3P	
			(60-100)	BW100EAGU-3P	
	225AF	2 poles	BU-GCA2□□□L	BW250EAGU-2P□□□SB	
	2207 11	-	BU-GDA2□□□L	2112021100 21 222 02	
		3 poles	BU-GCA3□□□L	BW250EAGU-3P□□□ SB	
			BU-GDA3□□□L		
	400AF	2 poles	BU-KDA2□□□L	BW400EAGU-2P□□□SB	
	400/4	3 poles	BU-KDA3□□□L	BW400EAGU-3P□□□SB	
UL489	100AF	2 poles	BU-ESA2	BW125RAGU-2P	
480VAC		3 poles	BU-ESA3	BW125JAGU-3P	
	150AF	2 poles	BU-FSA2	BW125JAGU-2P	
	100/4		BU-FSA2150	BW250JAGU-2P150	
			BU-FHA2	BW125RAGU-2P	
			BU-FHA2150	BW250RAGU-2P150	
		3 poles	BU-FSA3	BW125RAGU-3P	
		'	BU-FSA3150	BW250JAGU-3P150	
			BU-FHA3	BW125RAGU-3P	
			BU-FHA3150	BW250RAGU-3P150	
	250AF	2 poles	BU-JSA2 / BU-JHA2	-	
		3 poles	BU-JSA3 / BU-JHA3	-	
	400AF	2 poles	BU-KSA2 / BU-KHA2	=	
		3 poles	BU-KSA3 / BU-KHA3	=	
	600AF	2 poles	BU-LSA2 / BU-LHA2 / BU-LHA2T	-	
		3 poles	BU-LSA3 / BU-LHA3 / BU-LHA3T	-	
	800AF	2 poles	BU-MSA2 / BU-MHA2 / BU-MHA2T	-	
		3 poles	BU-MSA3 / BU-MHA3 / BU-MHA3T	-	
	1200AF	2 poles	BU-NSA2 / BU-NHA2 / BU-NHA2T	-	
		3 poles	BU-NSA3 / BU-NHA3 / BU-NHA3T	-	
UL489	100AF	2 poles	BU-ESB2 / BU2EHC	-	(up to 480VAC BW125RAGU-2P)
600VAC		3 poles	BU-ESB3 / BU3EHC	-	(up to 480VAC BW125RAGU-3P)
	150AF	2 poles	BU-FSB2	-	(up to 480VAC BW125RAGU-2P)
			BU-FSB2150	-	(up to 480VAC BW250JAGU-2P150)
			BU-FHB2 / BU2FHC	=	(up to 480VAC BW125RAGU-2P)
			BU-FHB2150	=	(up to 480VAC BW250RAGU-2P150)
		3 poles	BU-FSB3	=	(up to 480VAC BW125RAGU-3P)
			BU-FSB3150	-	(up to 480VAC BW250JAGU-3P150)
			BU-FHB3 / BU3FHC	-	(up to 480VAC BW125RAGU-3P)
			BU-FHB3150	-	(up to 480VAC BW250RAGU-3P150)
	250AF	2 poles	BU-JSB2 / BU-JHB2 / BU2GHC / BU2JHC	=	
		3 poles	BU-JSB3 / BU-JHB3 / BU3GHC / BU3JHC	=	
	400AF	2 poles	BU-KSB2 / BU-KHB2 / BU2KHC	-	
		3 poles	BU-KSB3 / BU-KHB3 / BU3KHC	-	
	600AF	2 poles	BU-LSB2 / BU-LHB2 / BU-LHB2T / BU2LHC	=	
		3 poles	BU-LSB3 / BU-LHB3 / BU-LHB3T / BU3LHC	1	
	800AF	2 poles	BU-MSB2 / BU-MHB2 / BU-MHB2T / BU2MHC	-	
		3 poles	BU-MSB3 / BU-MHB3 / BU-MHB3T / BU3MHC	-	
	1200AF	2 poles	BU-NSB2 / BU-NHB2 / BU-NHB2T / BU2NHC	-	
		3 poles	BU-NSB3 / BU-NHB3 / BU-NHB3T / BU3NHC	=	

Discontinued Accessories for above circuit breakers.

	Discontinued Models	Replacement
Operating Handles	BU-GEC / BU0VFH / BU0NFH	-
(G type / V type / N type)	BU-GGD / BU0VGH / BU0NGH	-
	BU-GKH / BU0VJH / BU0NJH	-
	BU-GLH / BU0VLH / BU0NLH	-
	BU-GNH / BU0VNH / BU0NNH	-

Note; All accessories discontinued as well. -: No replacement

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