

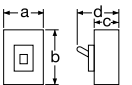


Molded Case Circuit Breakers - G-TWIN Series Specifications

MSA CONTROL - (11) 3961-1171 - comercial@msacontrol.com.br

Frame size (A)		125						250											
Type		BW125JAGU			BW125RAGU			BW250EAGU		BW250JAGU		BW250RAGU							
Appearance (with Screw Terminals, 3 poles)																			
SCCR=UL489 interrupting capacity																			
Rated insulation voltage (V) (IEC60947-2)		AC	690			690			690		690		690						
		DC	250			250			250		250		250						
Rated voltage (V) (UL489)		AC	600Y/347			600Y/347			240		600Y/347		600Y/347						
Rated current (A)		15,20,30,40,50,60,70,75,80,90,100,125						125,150,160,175,200,225,250											
Poles		2		3		4		2,3		4		2		3		2,3		4	
Rated frequency (Hz)		50/60						50/60											
Rated interrupting capacity sym (kA)	UL489 CAN/CSA C22.2 No.5	AC	600V/Δ	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
			600V/Y	10	10	10	18	18	-	-	10	10	25	25					
			480V/Δ	-	30	-	50	-	-	-	30	-	50	-					
			480V/Y	30	30	30	50	50	-	-	30	30	50	50					
			240V	50	50	50	100	100	22	-	50	50	100	100					
			250V	10	10	10	10	10	10	10	10	10	10	10					
	IEC60947-2 JIS C 8201-2-1 Icu/Ics	AC	690V	-	5/3			-	-	5/3									
			500V	15/8	36/18			10/5	-	18/9	36/18	36/18							
			440V	30/15	50/25			18/9	-	30/15	50/25	50/25							
			400V	30/15	50/25			18/9	-	30/15	50/25	50/25							
			380V	30/15	50/25			18/9	-	30/15	50/25	50/25							
			240V	50/25	100/50			36/18	-	50/25	100/50	100/50							
DC	250V	15/8	40/20			10/5	-	20/10	40/20	40/20									
	230V	50/25	100/50			36/18	-	50/25	100/50	100/50									
GB14048.2 Icu/Ics	AC	400V	30/15	50/25			18/9	-	30/15	50/25	50/25								
		230V	50/25	100/50			36/18	-	50/25	100/50	100/50								
Isolation compliance		Compliant						Compliant											
Utilization category		A						A											
Dimension inch (mm)		a	2.362(60)	3.543(90)	4.724(120)	3.543(90)	4.724(120)	4.134(105)	4.134(105)	6.496(165)	4.134(105)	6.496(165)							
		b	6.372(171)			6.372(171)			7.126(181)		7.126(181)								
		c	2.677(68)			2.677(68)			2.677(68)		2.677(68)								
		d	3.740(95)			3.740(95)			3.740(95)		3.740(95)								
Terminal construction	Screw terminals (standard)	None	●	●	●	●	●	●	●	●	●								
	Flat terminals	SF	●	●	●	●	●	●	●	●	●								
	Lug terminals	SB	●	●	●	●	●	●	●	●	●								
Internal accessories	Auxiliary switch	W	BW9W1SG0(-R)			BW9W1SG0(-R)		BW9W1SG0(-R)		BW9W1SG0(-R)		BW9W1SG0(-R)							
	Auxiliary switch for low current	1	BW9W1DG0(-R)			BW9W1DG0(-R)		BW9W1DG0(-R)		BW9W1DG0(-R)		BW9W1DG0(-R)							
	Alarm switch	K	BW9K1SG0(-R)			BW9K1SG0(-R)		BW9K1SG0(-R)		BW9K1SG0(-R)		BW9K1SG0(-R)							
	Alarm switch for low current	8	BW9K1DG0(-R)			BW9K1DG0(-R)		BW9K1DG0(-R)		BW9K1DG0(-R)		BW9K1DG0(-R)							
	Auxiliary & Alarm switch	WK	BW9WKSG0(-R)			BW9WKSG0(-R)		BW9WKSG0(-R)		BW9WKSG0(-R)		BW9WKSG0(-R)							
	Aux & Alarm for low current	18	BW9WKDG0(-R)			BW9WKDG0(-R)		BW9WKDG0(-R)		BW9WKDG0(-R)		BW9WKDG0(-R)							
	Shunt trip	F	BW9F*G0			BW9F*G0		BW9F*G0		BW9F*G0		BW9F*G0							
	Under voltage trip	R	-	BW9RGA*			BW9RGA*		BW9RGA*		BW9RGA*								
	Accessories with terminal block	A	See page 41			See page 41		See page 41		See page 41		See page 41							
External accessories	Padlocking device *2	Q1	BW9Q1CA			BW9Q1CA		BW9Q1CA		BW9Q1CA		BW9Q1CA							
		Q2	BW9Q2CA			BW9Q2CA		BW9Q2GA		BW9Q2GA		BW9Q2GA							
	External operating handle	V	-	BW9V0CA			BW9V0CA		BW9V0GA		BW9V0GA								
		N	-	BW9N0CA			BW9N0CA		BW9N0GA		BW9N0GA								
		F	-	BW9F0CA			BW9F0CA		BW9F0GA		BW9F0GA								
	Field Installable terminal kit	Flat terminal kit	BW9SS0CA-3 GLOBAL						BZ-S50B-2253 GLOBAL										
		Lug terminal kit	BW9SLOCA-3 GLOBAL						Please see page 47										
Terminal covers *1	Short type,gray-white	Provided						Provided		Provided		Provided							
	Short type,transparent	BW9BTCA-S2	BW9BTCA-S3	BW9BTCA-S4	BW9BTCA-S3	BW9BTCA-S4	BW9BTGA-S3		BW9BTGA-S3	BW9BTGA-S4	BW9BTGA-S3	BW9BTGA-S4							
	Long type,gray-white	BW9BTCA-L2W	BW9BTCA-L3W	BW9BTCA-L4W	BW9BTCA-L3W	BW9BTCA-L4W	BW9BTGA-L3W		BW9BTGA-L3W	BW9BTGA-L4W	BW9BTGA-L3W	BW9BTGA-L4W							
	Long type,transparent	BW9BTCA-L2	BW9BTCA-L3	BW9BTCA-L4	BW9BTCA-L3	BW9BTCA-L4	BW9BTGA-L3		BW9BTGA-L3	BW9BTGA-L4	BW9BTGA-L3	BW9BTGA-L4							
Insulation barrier		BW9BPCA						BW9BPCA		BW9BPGA		BW9BPGA							

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

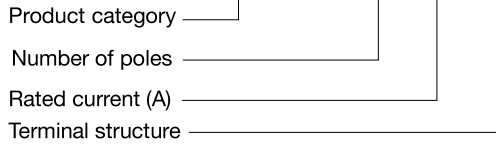
*2 Non-UL item

● : Available, - : Not available

Note: All circuit breakers rated at 80%

Molded Case Circuit Breakers (50 - 800AF)

BW250EAGU - 3P 100 SF

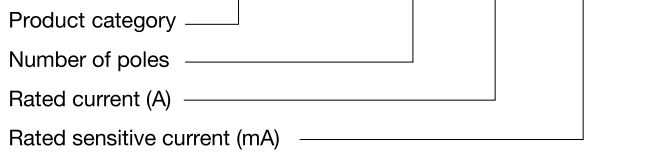


Code	Line side	Load side	BW50RBGU	BW50RAGU	BW100EAGU, BW125RAGU, BW125RAGU BW250EAGU, BW125JAGU, BW250RAGU	BW400EAGU, BW400SAGU, BW400RAGU, BW400HAGU BW630RAGU, BW630HAGU, BW800RAGU, BW800HAGU
None	Screw	Screw	•	•	•	-
None	Flat	Flat	-	-	-	•
SB	Lug	Lug	-	-	•	•*1
SF	Flat	Flat	-	•	•	-

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

Earth Leakage Circuit Breakers (50 - 630AF)

EW50RAGU - 3P 050 K SF L



Earth Alarm Switch
(Factory install optional accessory)
Only for EW125,EW250,EW400,EW630

G-TWIN Series

Code	Line side	2 poles	3 poles	4 poles
B	30mA	•	•	•
D	50mA*	-	•	-
K	100/200mA** changeable	•	-	-
K	100/200/500* or 100/200/500/1000mA changeable	-	•	•

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

**Only for EW100EAGU-2P

G-TWIN Λ (Lambda) Series

Code	Line side	2 poles	3 poles
B	30mA	•	•
D	50mA	-	•
C	100mA	-	•
E	200mA	-	•
H	500mA	-	•

Terminal structure

Code	Line side	Load side	EW50RBGU	EW50RAGU EW100EAGU	EW125JAGU, EW125RAGU EW125JAGU, EW250RAGU	EW400SAGU, EW400RAGU, EW400HAGU EW630RAGU
None	Screw	Screw	•	•	•	-
None	Flat	Flat	-	-	-	•
SB	Lug	Lug	-	-	•	•*1
SF	Flat	Flat	-	•	•	-

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

Discontinued Products Cross Charts

MSA CONTROL - (11) 3961-1171 - comercial@msacontrol.com.br

Discontinue date : March 1989~December 2010

Series	Frame size		Molded Case Circuit Breakers		Earth Leakage Circuit Breakers	
			Discontinued Models	Replacement - UL489 (Non-UL)	Discontinued Models*1	Replacement - UL489 (Non-UL)
E 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)
			EA52B	BW50RAGU-2P	EGa52A	(EW50AAG-2P)
		3 poles	EA53A	BW50RAGU-3P	EG53F / EG53A / EG53AH	EW50RAGU-3P
			EA53B	BW50RAGU-3P	EG53B	EW50RAGU-3P
	60AF	2 poles	EA62B	BW100EAGU-2P		
		3 poles	EA63B	BW100EAGU-3P	EG63A / EG63AH / EG63B	EW100EAGU-3P
	100AF	2 poles	EA102A / EA102B	BW100EAGU-2P	EG102A / EG102B	EW100EAGU-2P
			EA102H	BW125JAGU-2P	-	-
		3 poles	EA103F	BW100EAGU-3P	EG103F / EG103A / EG103B	EW100EAGU-3P
			EA103A / EA103B	BW100EAGU-3P	EG103AD / EG103BD	EW125JAGU-3P
			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	2 poles	EA102CUL	BW100EAGU-2P	EG102CUL	EW100EAGU-2P
3 poles		EA103CUL	BW100EAGU-3P	EG103CUL	EW100EAGU-3P	
S 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	-	-
			SA52H	(BW50HAG-2P)	-	-
		3 poles	SA53B / SA53R	BW50RAGU-3P	SG53 / SG53A / SG53B / SG53R	EW50RAGU-3P
			SA53H	(BW50HAG-3P)	-	-
	4 poles	SA54B	(BW125JAG-4P)			
	60AF	2 poles	SA62B / SA62R	BW100EAGU-2P	-	-
		3 poles	SA63 / SA63B / SA63R	BW100EAGU-3P	SG63 / SG63A / SG63B / SG63R	EW100EAGU-3P
	100AF	2 poles	SA102A / SA102B / SA102C	BW125JAGU-2P	-	-
			SA102H / SA102R / SA102RC	BW125RAGU-2P	-	-
			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
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	-	-	
	SA202RA		BW250RAGU-2P	-	-	
	SA202K		BW250EAGU-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