

Supplementary Technical Information on the bent wiring and multiple wiring in G-Twin Series

1) Possible connections on the G-Twin Series

		UL 489 AC240V Breaking Capacity		Bent Wiring (UL No.E90584)		Multiple Wiring (UL No.E90584)	
		240V Normal (kA)	240V Reverse(kA)	LINE	LOAD	LINE	LOAD
G-Twin 1	BW50RAGU	14	×	×	○	○	○
	BW100EAGU	14	×	×	○	○	○
G-Twin Lambda	BW50RBGU	18	18	○	×	○	○
G-Twin 2	BW125JAGU	50	50	×	×	UL In Progress	UL In Progress
	BW125RAGU	100	100	×	×	UL In Progress	UL In Progress
	BW250EAGU	22	22	×	×	UL In Progress	UL In Progress
	BW250JAGU	50	50	×	×	UL In Progress	UL In Progress
	BW250RAGU	100	100	×	×	UL In Progress	UL In Progress

		UL 489 AC240V Breaking Capacity		Bent Wiring (UL No.E90584)		Multiple Wiring (UL No.E90584)	
		240V Normal (kA)	240V Reverse(kA)	LINE	LOAD	LINE	LOAD
G-Twin 1	EW50RAGU	14	×	×	○	○	○
	EW100EAGU	14	×	×	○	○	○
G-Twin Lambda	EW50RBGU	18	×	○	×	○	○
G-Twin 2	EW125JAGU	50	50	×	×	UL In Progress	UL In Progress
	EW125RAGU	100	100	×	×	UL In Progress	UL In Progress
	EW250JAGU	50	50	×	×	UL In Progress	UL In Progress
	EW250RAGU	100	100	×	×	UL In Progress	UL In Progress

× = Not Support ○ = Support

2) The precautions in the instruction Manual

For Multiple Wiring

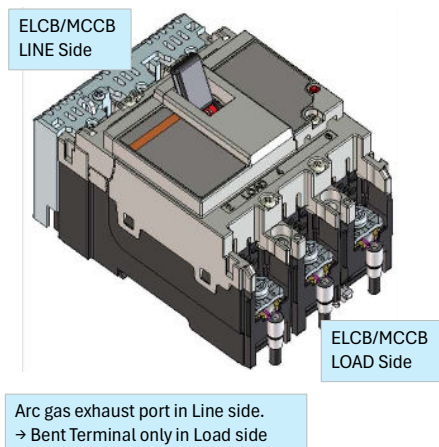
- (1) Use a wire size appropriate for the rated current.
- (2) To ensure sufficient insulation distance from the mounting surface, be sure to apply insulation treatment after connecting the wires.

For 45° or 90° Bent Wiring

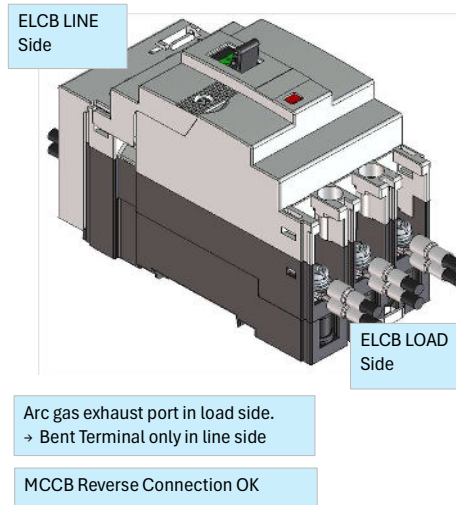
- (1) Use only one specified bent crimp terminal. Crimp terminals other than those specified must not be bent and used.
- (2) Bent wiring on the power supply side(G-TWIN 1) or load side(G-TWIN Lambda) is not permitted, as it may obstruct the arc gas exhaust port.
- (3) To ensure sufficient insulation distance from the mounting surface, be sure to apply insulation treatment after connecting the wires.
- (4) Front-facing wiring is not permitted because installation of the terminal cover is mandatory.
- (5) Cannot be used in combination with an IP20 terminal cover.

3) Reference diagram

G-Twin 1



G-Twin Lambda



G-TWINシリーズ BW/EW50RAGU, BW/EW100EAGUのUL適用電線サイズと圧着端子

UL wire size and crimp terminal requirements for G-TWIN Series BW/EW50RAGU, BW/EW100EAGU

接続電線サイズ Wire size 75℃ 電線 wire	適合圧着端子と圧着工具 Applicable crimp terminals and crimp tools									
	日本圧着端子製造各株式会社 Japan Solderless Terminal Mfg Co Ltd (UL File No. E42024)		株式会社ニチフ端子工業 NICHIFU TERMINAL INDUSTRIES CO LTD (UL File No. E44245)		大同端子製造株式会社 DAIDO SOLDERLESS TERMINAL MFG CO LTD (UL File No. E74917)		Panduit Corp. (UL File No. E52164)		ABB Installation Products Inc. (UL File No. E9809)	
	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool
14 AWG (2.1mm ²)	2-M5 R2-5	YHT-2210 YA-1, YA-2 YAT-1A, YAT-2A YAD-1A, YAD-2A YA-4 YAT-4A YAD-4A BCT-0555L	R2-5M R2-5	NH1 NH9 NH61 NBC55 NA-3 No.2 N37	2-S5 2-5	MINI 12 5N18 214A DH-1B AC-5N-D REC-14A	P14-10R-C	For LCA10-10L CT-1570 CT-1701 For Others CT-100A CT-200 CT-600-A	B14-10	ERG2002 ERG4002 ERG4005
12 AWG (3.3mm ²)	3.5-R5 3.5-5 5.5-5NS R5.5-5 5.5-S5	YHT-2210 BCT-0555L YHT-2210 YA-1, YA-2 YAT-1A, YAT-2A YAD-1A, YAD-2A YA-4 YAT-4A YAD-4A BCT-0555L	R3.5-5S R3.5-5L R5.5-5N R5.5-5S R5.5-5	NH1 NH9 NBC55 NA-3 No.2 N37	3.5-5 5.5-S5 5.5-5 5.5-L5	5N18 214A DH-1B AC-5N-D REC-14A	P10-10R-L LCA10-10-L LCA10-10F-L	CT-1570 CT-2500 CT-160 CT-260	C10-10 C26U	For C10-10 ERG2002 ERG4002 ERG4005 For C26U WT110M WT111M WT112M ERG2002 WT2000
10 AWG (5.3mm ²)			R5.5-5N R5.5-5S R5.5-5		5.5-S5 5.5-5 5.5-L5					
8 AWG (8.4mm ²)	8-NK5 L8-5 8-5NS R8-5 8-L5NS 8-L5	YA-4 AD-901S YPT-60N 8NK-6 YF-1 E-4 YET-60-1 YA-5 YHT-8S YA-4, YA-5 YAT-4A YAD-4A YPT-60N, YPT-150-1 BCT-860L-1, BCT-8150L-B YF-1 E-4 YET-60-1, YET-150-2	R8-5S R8-5	NH1 NH9 NOP60 NOM60	8-S5 8-5	5N18 214A REC-14A	P8-10R-Q LCA8-10-L LCA8-10F-L LCAX8-10F-L LCAF8-10H-L LCAX8-10H-L	For P8-10R-Q CT-1701 CT-2600 For LCA8-10-L CT-1700 CT3001/ST For Others CT-1700 CT-810	D8-10 D10361 D26U D36U	For D8-10 WT115A TBM6S For D10361 ERG4005 ERG4008 For D26U,D36U ERG2005 WT3185
6 AWG (13.3mm ²)	14-8NS 14-S8 R14-8	YA-4, YA-5 YAT-4A YAD-4A YPT-60N, YPT-150-1 BCT-860L-1, BCT-8150L-B YF-1 E-4 YET-60-1, YET-150-2	R14-8S R14-8 R14-8S-B	NH9 NOP60 NOM60 NOP150HA NOM150	14-S8 14-8	214A 9H-60 9H-150 REC-14A REC-60F REC-150F REC-1520	P6-56R-E LCA6-56-L LCAX6-10F-L	For P6-56R-E CT-1701 CT-2600 For LCA6-56-L CT-1700 CT3001/ST For LCAX6-10F-L CT-1700 CT-810	E6-516	TBM6S WT115A
4 AWG (21.1mm ²)	22-S8 R22-8 CB22-S8	YA-5 YPT-60N, YPT-150-1 BCT-860L-1, BCT-8150L-B YF-1 YET-60-1, YET-150-2	R22-8S R22-8 CB22-8S R22-8S-B	NOP60 NOM60 NOP150HA NOM150	22-S8 22-8	9H-60 9H-150 REC-60F REC-150F REC-1520	S4-56R-E	CT-1700 CT3001/ST	F4-516	
3 AWG (26.7mm ²)	38-S8	E-4 YET-60-1, YET-150-2	R38-8S R38-8S-B		38-S8		—	—	—	—



G-TWINシリーズ BW/EW50RAGU, BW/EW100EAGUのUL適用電線サイズと圧着端子

UL wire size and crimp terminal requirements for G-TWIN Series BW/EW50RAGU, BW/EW100EAGU

端子電流 (A) Terminal current in amperesa	接続電線サイズ Size AWG 75°C
15 or less	14
20 or less	12
25 or less	10
30 or less	10
40 or less	8
50 or less	8
60 or less	6
70 or less	4
80 or less	4
90 or less	3
100 or less	3

UL489 表6.1「端子電流および導体サイズ」に準拠（抜粋）。

接続電線は75°C銅線とする。

W配線の場合は、電流に応じた電線サイズおよび必要な絶縁距離を確保すること。

In accordance with UL 489 Table 6.1 "Terminal Current and Conductor Size" (excerpted).

Conductors shall be 75° C rated copper.

For double wiring, ensure proper conductor size and insulation clearances.

G-TWIN A シリーズ BW/EW50RBGUのUL適用電線サイズと圧着端子

UL wire size and crimp terminal requirements for G-TWIN A Series BW/EW50RBGU

接続電線サイズ Wire size 75°C 電線 wire	適合圧着端子と圧着工具 Applicable crimp terminals and crimp tools									
	日本圧着端子製造各株式会社 Japan Solderless Terminal Mfg Co Ltd (UL File No. E42024)		株式会社ニチフ端子工業 NICHIFU TERMINAL INDUSTRIES CO LTD (UL File No. E44245)		大同端子製造株式会社 DAIDO SOLDERLESS TERMINAL MFG CO LTD (UL File No. E74917)		Panduit Corp. (UL File No. E52164)		ABB Installation Products Inc. (UL File No. E9809)	
	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool	圧着端子 Terminal	圧着工具 Tool
14 AWG (2.1mm ²)	2-M5 R2-5	YHT-2210 YA-1 YA-2 YAT-1A YAT-2A YAD-1A	R2-5 R2-5M	NH1 NH9 NH61	R2-5 R2-S5	MINI12 5N18 214A DH-1B AC-5N-D REC-14A	P14-10R-C	For LCA10-10-L CT-1570 CT-1701 For Others CT-100A	B14-10	ERG2002 ERG4002 ERG4005
12 AWG (3.3mm ²)	3.5-5 3.5-R5 5.5-S5 5.5-5NS R5.5-5	YAD-2A YA-4 YAT-4A YAD-4A BCT-0555L	R3.5-5S R3.5-5L R5.5-5 R5.5-5N R5.5-5S R5.5-5-B	NH1 NH9	R3.5-5 R5.5-5 R5.5-L5 R5.5-S5	5N18 214A DH-1B AC-5N-D REC-14A	P10-10R-L LCA10-10-L	CT-200 CT-600-A CT-1570 CT-2500 CT-160 CT-260	C10-10 C26U	For C10-10 ERG2002 ERG4002 ERG4005 For Others WT110M WT111M WT112M ERG2002 WT2000
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8 AWG (8.4mm ²)	8-5NS 8-NK5 8-L5NS L8-5	For 8-NK5 YHT-8S YQ-4 AD-901S YPT-60N 8NK-6 YF-1 E-4 YET-60-1 For Others YHT-8S YA-4, YA-5 YAT-4A YAD-4A YPT-60N, YPT-150-1 BCT-0555L, BCT-860L-1 BCT-8150L-B YF-1 E-4 YET-60-1, YET-150-2	R8-5 R8-5S	NH1 NH9 NOP60 NOM60	R8-5 R8-S5	5N18 214A REC-14A	LCA8-10-L LCA8-10F-L LCAX8-10F-L LCAF8-10H-L LCAX8-10H-L	For LCA8-10-L CT-1700 For Others CT-1700 CT-810	D8-10 D10361 D26U D36U	For D8-10 WT115A TBM6S For D10361 ERG4005 ERG4008 For Others ERG2005 WT3185



G-TWINΛシリーズ BW/EW50RBGUのUL適用電線サイズと圧着端子

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端子電流 (A) Terminal current in amperesa	接続電線サイズ Wire size
	Size AWG 75°C
15 or less	14
20 or less	12
25 or less	10
30 or less	10
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50 or less	8

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