

UMBW-UL489 and UL1077 Listed

Introducing the New WEG UMBW Series Thermal-Magnetic Miniature Circuit Breakers. This new offering includes both UL489 and UL1077 approvals to provide a solution for circuit & equipment protection in Industrial Electrical equipment. The UMBW has a range from 1 to 63Amps, available in 1,2, 3 poles, and B, C, D trip curves.

Standard Features

- AC & DC voltages available in one Series
- UL489 Branch Circuit protective device
- UL1077 Equipment protection
- 17.5mm width per pole
- Visual status indication
- Positive trip-free snap action mechanism to ensure reliable switching
- Cuttable Bus Bar connecting system



UMBW Catalog Number Sequence

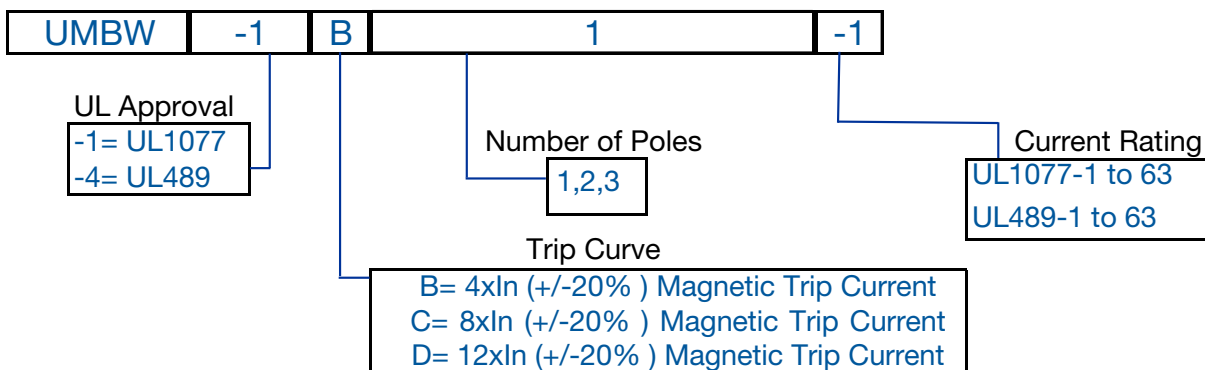




Table intended as reference only and not to create part numbers.




UL1077

# Poles	Ampacity	Catalog Number			Max Voltage
		B CURVE	C CURVE	D CURVE	
1 POLE 	1	UMBW-1B1-1	UMBW-1C1-1	UMBW-1D1-1	277 VAC
	1.5	UMBW-1B1-1.5 ¹	UMBW-1C1-1.5 ¹	UMBW-1D1-1.5 ¹	
	2	UMBW-1B1-2	UMBW-1C1-2	UMBW-1D1-2	
	3	UMBW-1B1-3	UMBW-1C1-3	UMBW-1D1-3	
	4	UMBW-1B1-4	UMBW-1C1-4	UMBW-1D1-4	
	5	UMBW-1B1-5	UMBW-1C1-5	UMBW-1D1-5	
	6	UMBW-1B1-6	UMBW-1C1-6	UMBW-1D1-6	
	7	UMBW-1B1-7 ¹	UMBW-1C1-7 ¹	UMBW-1D1-7 ¹	
	8	UMBW-1B1-8 ¹	UMBW-1C1-8 ¹	UMBW-1D1-8 ¹	
	10	UMBW-1B1-10	UMBW-1C1-10	UMBW-1D1-10	
	12	UMBW-1B1-12	UMBW-1C1-12	UMBW-1D1-12	
	13	UMBW-1B1-13 ¹	UMBW-1C1-13 ¹	UMBW-1D1-13 ¹	
	15	UMBW-1B1-15	UMBW-1C1-15	UMBW-1D1-15	
	16	UMBW-1B1-16	UMBW-1C1-16	UMBW-1D1-16	
	20	UMBW-1B1-20	UMBW-1C1-20	UMBW-1D1-20	
	25	UMBW-1B1-25	UMBW-1C1-25	UMBW-1D1-25	
	30	UMBW-1B1-30 ¹	UMBW-1C1-30 ¹	UMBW-1D1-30 ¹	
	32	UMBW-1B1-32	UMBW-1C1-32	UMBW-1D1-32	
	35	UMBW-1B1-35 ¹	UMBW-1C1-35 ¹	UMBW-1D1-35 ¹	
	40	UMBW-1B1-40	UMBW-1C1-40	UMBW-1D1-40	
50	UMBW-1B1-50	UMBW-1C1-50	UMBW-1D1-50		
60	UMBW-1B1-60 ¹	UMBW-1C1-60 ¹	UMBW-1D1-60 ¹		
63	UMBW-1B1-63	UMBW-1C1-63	UMBW-1D1-63		
2 POLE 	1	UMBW-1B2-1	UMBW-1C2-1	UMBW-1D2-1	277/480 VAC
	1.5	UMBW-1B2-1.5 ¹	UMBW-1C2-1.5 ¹	UMBW-1D2-1.5 ¹	
	2	UMBW-1B2-2	UMBW-1C2-2	UMBW-1D2-2	
	3	UMBW-1B2-3	UMBW-1C2-3	UMBW-1D2-3	
	4	UMBW-1B2-4	UMBW-1C2-4	UMBW-1D2-4	
	5	UMBW-1B2-5	UMBW-1C2-5	UMBW-1D2-5	
	6	UMBW-1B2-6	UMBW-1C2-6	UMBW-1D2-6	
	7	UMBW-1B2-7 ¹	UMBW-1C2-7 ¹	UMBW-1D2-7 ¹	
	8	UMBW-1B2-8 ¹	UMBW-1C2-8 ¹	UMBW-1D2-8 ¹	
	10	UMBW-1B2-10	UMBW-1C2-10	UMBW-1D2-10	
	12	UMBW-1B2-12	UMBW-1C2-12	UMBW-1D2-12	
	13	UMBW-1B2-13 ¹	UMBW-1C2-13 ¹	UMBW-1D2-13 ¹	
	15	UMBW-1B2-15 ¹	UMBW-1C2-15 ¹	UMBW-1D2-15 ¹	
	16	UMBW-1B2-16	UMBW-1C2-16	UMBW-1D2-16	
	20	UMBW-1B2-20	UMBW-1C2-20	UMBW-1D2-20	
	25	UMBW-1B2-25	UMBW-1C2-25	UMBW-1D2-25	
	30	UMBW-1B2-30 ¹	UMBW-1C2-30 ¹	UMBW-1D2-30 ¹	
	32	UMBW-1B2-32	UMBW-1C2-32	UMBW-1D2-32	
	35	UMBW-1B2-35 ¹	UMBW-1C2-35 ¹	UMBW-1D2-35 ¹	
	40	UMBW-1B2-40	UMBW-1C2-40	UMBW-1D2-40	
50	UMBW-1B2-50	UMBW-1C2-50	UMBW-1D2-50		
60	UMBW-1B2-60 ¹	UMBW-1C2-60 ¹	UMBW-1D2-60 ¹		
63	UMBW-1B2-63	UMBW-1C2-63	UMBW-1D2-63		

¹) Non-stocked. Contact WEG for availability.



UMBW

UL1077

# Poles	Ampacity	Catalog Number			Max Voltage
		B CURVE	C CURVE	D CURVE	
 3 POLE	1	UMBW-1B3-1	UMBW-1C3-1	UMBW-1D3-1	277/480 VAC
	1.5	UMBW-1B3-1.5 ¹	UMBW-1C3-1.5 ¹	UMBW-1D3-1.5 ¹	
	2	UMBW-1B3-2	UMBW-1C3-2	UMBW-1D3-2	
	3	UMBW-1B3-3 ¹	UMBW-1C3-3 ¹	UMBW-1D3-3 ¹	
	4	UMBW-1B3-4	UMBW-1C3-4	UMBW-1D3-4	
	5	UMBW-1B3-5 ¹	UMBW-1C3-5 ¹	UMBW-1D3-5 ¹	
	6	UMBW-1B3-6	UMBW-1C3-6	UMBW-1D3-6	
	7	UMBW-1B3-7 ¹	UMBW-1C3-7 ¹	UMBW-1D3-7 ¹	
	8	UMBW-1B3-8 ¹	UMBW-1C3-8 ¹	UMBW-1D3-8 ¹	
	10	UMBW-1B3-10	UMBW-1C3-10	UMBW-1D3-10	
	12	UMBW-1B3-12 ¹	UMBW-1C3-12 ¹	UMBW-1D3-12 ¹	
	13	UMBW-1B3-13 ¹	UMBW-1C3-13 ¹	UMBW-1D3-13 ¹	
	15	UMBW-1B3-15 ¹	UMBW-1C3-15 ¹	UMBW-1D3-15 ¹	
	16	UMBW-1B3-16	UMBW-1C3-16	UMBW-1D3-16	
	20	UMBW-1B3-20	UMBW-1C3-20	UMBW-1D3-20	
	25	UMBW-1B3-25	UMBW-1C3-25	UMBW-1D3-25	
	30	UMBW-1B3-30 ¹	UMBW-1C3-30 ¹	UMBW-1D3-30 ¹	
	32	UMBW-1B3-32	UMBW-1C3-32	UMBW-1D3-32	
	35	UMBW-1B3-35 ¹	UMBW-1C3-35 ¹	UMBW-1D3-35 ¹	
	40	UMBW-1B3-40	UMBW-1C3-40	UMBW-1D3-40	
50	UMBW-1B3-50	UMBW-1C3-50	UMBW-1D3-50		
60	UMBW-1B3-60 ¹	UMBW-1C3-60 ¹	UMBW-1D3-60 ¹		
63	UMBW-1B3-63	UMBW-1C3-63	UMBW-1D3-63		

1) Non-stocked. Contact WEG for availability.


UL489

# Poles	Ampacity	Catalog Number			Max Voltage
		B CURVE	C CURVE	D CURVE	
1 POLE 	1	UMBW-4B1-1	UMBW-4C1-1	UMBW-4D1-1	277 VAC /60 VDC
	1.5	UMBW-4B1-1.5 ¹	UMBW-4C1-1.5 ¹	UMBW-4D1-1.5 ¹	
	2	UMBW-4B1-2	UMBW-4C1-2	UMBW-4D1-2	
	3	UMBW-4B1-3 ¹	UMBW-4C1-3 ¹	UMBW-4D1-3 ¹	
	4	UMBW-4B1-4	UMBW-4C1-4	UMBW-4D1-4	
	5	UMBW-4B1-5 ¹	UMBW-4C1-5 ¹	UMBW-4D1-5 ¹	
	6	UMBW-4B1-6	UMBW-4C1-6	UMBW-4D1-6	
	7	UMBW-4B1-7 ¹	UMBW-4C1-7 ¹	UMBW-4D1-7 ¹	
	8	UMBW-4B1-8 ¹	UMBW-4C1-8 ¹	UMBW-4D1-8 ¹	
	10	UMBW-4B1-10	UMBW-4C1-10	UMBW-4D1-10	
	12	UMBW-4B1-12 ¹	UMBW-4C1-12 ¹	UMBW-4D1-12 ¹	
	13	UMBW-4B1-13 ¹	UMBW-4C1-13 ¹	UMBW-4D1-13 ¹	
	15	UMBW-4B1-15	UMBW-4C1-15	UMBW-4D1-15	
	16	UMBW-4B1-16	UMBW-4C1-16	UMBW-4D1-16	
	20	UMBW-4B1-20	UMBW-4C1-20	UMBW-4D1-20	
	25	UMBW-4B1-25	UMBW-4C1-25	UMBW-4D1-25	120 VAC /60 VDC
	30	UMBW-4B1-30 ¹	UMBW-4C1-30 ¹	UMBW-4D1-30 ¹	
	32	UMBW-4B1-32	UMBW-4C1-32	UMBW-4D1-32	
	35	UMBW-4B1-35 ¹	UMBW-4C1-35 ¹	UMBW-4D1-35 ¹	
	40	UMBW-4B1-40 ¹	UMBW-4C1-40 ¹	UMBW-4D1-40 ¹	
50	UMBW-4B1-50 ¹	UMBW-4C1-50 ¹	UMBW-4D1-50 ¹		
60	UMBW-4B1-60 ¹	UMBW-4C1-60 ¹	UMBW-4D1-60 ¹		
63	UMBW-4B1-63 ¹	UMBW-4C1-63 ¹	UMBW-4D1-63 ¹		
2 POLE 	1	UMBW-4B2-1	UMBW-4C2-1	UMBW-4D2-1	277/480 VAC 125 VDC
	1.5	UMBW-4B2-1.5 ¹	UMBW-4C2-1.5 ¹	UMBW-4D2-1.5 ¹	
	2	UMBW-4B2-2	UMBW-4C2-2	UMBW-4D2-2	
	3	UMBW-4B2-3 ¹	UMBW-4C2-3 ¹	UMBW-4D2-3 ¹	
	4	UMBW-4B2-4	UMBW-4C2-4	UMBW-4D2-4	
	5	UMBW-4B2-5	UMBW-4C2-5	UMBW-4D2-5	
	6	UMBW-4B2-6	UMBW-4C2-6	UMBW-4D2-6	
	7	UMBW-4B2-7 ¹	UMBW-4C2-7 ¹	UMBW-4D2-7 ¹	
	8	UMBW-4B2-8 ¹	UMBW-4C2-8 ¹	UMBW-4D2-8 ¹	
	10	UMBW-4B2-10	UMBW-4C2-10	UMBW-4D2-10	
	12	UMBW-4B2-12	UMBW-4C2-12	UMBW-4D2-12	
	13	UMBW-4B2-13 ¹	UMBW-4C2-13 ¹	UMBW-4D2-13 ¹	
	15	UMBW-4B2-15 ¹	UMBW-4C2-15 ¹	UMBW-4D2-15 ¹	
	16	UMBW-4B2-16	UMBW-4C2-16	UMBW-4D2-16	
	20	UMBW-4B2-20	UMBW-4C2-20	UMBW-4D2-20	
	25	UMBW-4B2-25	UMBW-4C2-25	UMBW-4D2-25	277/480 VAC 125 VDC
	30	UMBW-4B2-30 ¹	UMBW-4C2-30 ¹	UMBW-4D2-30 ¹	
	32	UMBW-4B2-32	UMBW-4C2-32	UMBW-4D2-32	
	35	UMBW-4B2-35 ¹	UMBW-4C2-35 ¹	UMBW-4D2-35 ¹	
	40	UMBW-4B2-40 ¹	UMBW-4C2-40 ¹	UMBW-4D2-40 ¹	
50	UMBW-4B2-50 ¹	UMBW-4C2-50 ¹	UMBW-4D2-50 ¹		
60	UMBW-4B2-60 ¹	UMBW-4C2-60 ¹	UMBW-4D2-60 ¹		
63	UMBW-4B2-63 ¹	UMBW-4C2-63 ¹	UMBW-4D2-63 ¹		

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UMBW

UL489

# Poles	Ampacity	Catalog Number			Max Voltage	
		B CURVE	C CURVE	D CURVE		
3 POLE 	1	UMBW-4B3-1	UMBW-4C3-1	UMBW-4D3-1	277/480 VAC 125 VDC	
	1.5	UMBW-4B3-1.5 ¹	UMBW-4C3-1.5 ¹	UMBW-4D3-1.5 ¹		
	2	UMBW-4B3-2	UMBW-4C3-2	UMBW-4D3-2		
	3	UMBW-4B3-3 ¹	UMBW-4C3-3 ¹	UMBW-4D3-3 ¹		
	4	UMBW-4B3-4	UMBW-4C3-4	UMBW-4D3-4		
	5	UMBW-4B3-5	UMBW-4C3-5	UMBW-4D3-5		
	6	UMBW-4B3-6	UMBW-4C3-6	UMBW-4D3-6		
	7	UMBW-4B3-7 ¹	UMBW-4C3-7 ¹	UMBW-4D3-7 ¹		
	8	UMBW-4B3-8 ¹	UMBW-4C3-8	UMBW-4D3-8		
	10	UMBW-4B3-10	UMBW-4C3-10	UMBW-4D3-10		
	12	UMBW-4B3-12 ¹	UMBW-4C3-12 ¹	UMBW-4D3-12 ¹		
	13	UMBW-4B3-13 ¹	UMBW-4C3-13 ¹	UMBW-4D3-13 ¹		
	15	UMBW-4B3-15	UMBW-4C3-15	UMBW-4D3-15		
	16	UMBW-4B3-16	UMBW-4C3-16	UMBW-4D3-16		
	20	UMBW-4B3-20	UMBW-4C3-20	UMBW-4D3-20		
	25	UMBW-4B3-25	UMBW-4C3-25	UMBW-4D3-25		240 VAC / 125 VDC
	30	UMBW-4B3-30 ¹	UMBW-4C3-30 ¹	UMBW-4D3-30 ¹		
	32	UMBW-4B3-32	UMBW-4C3-32	UMBW-4D3-32		
	35	UMBW-4B3-35 ¹	UMBW-4C3-35 ¹	UMBW-4D3-35 ¹		
	40	UMBW-4B3-40 ¹	UMBW-4C3-40 ¹	UMBW-4D3-40 ¹		
50	UMBW-4B3-50 ¹	UMBW-4C3-50 ¹	UMBW-4D3-50 ¹			
60	UMBW-4B3-60 ¹	UMBW-4C3-60 ¹	UMBW-4D3-60 ¹			
63	UMBW-4B3-63 ¹	UMBW-4C3-63 ¹	UMBW-4D3-63 ¹			

1) Non-stocked. Contact WEG for availability.

Miniature Circuit Breakers

Accessories

Auxiliary Contact	1NO/1NC
Shunt Trip	120,240,277AC...12,24,48,125DC
Bell Alarm	1NO/1NC
Bus Bar	1,2,3 Phase...1,2,3 Phase with Auxiliary

Auxiliary Contacts

Signaling contacts that open and close with the breaker. Provide remote status indicating ON and OFF only.

For Use With	Catalog Number	Operating Voltage	Operating Amperage	Contacts	Mounting/Dims (mm)	Mechanical Operations	Torque	Mass
UMBW-1 UMBW-4	UMBW-AUX	12-240VAC	6A	1NO/1NC	Field Mountable..Left Side/ 9mm	20,000	1 Nm .74 Ft. lbs.	29g
		277VAC	3A					
		12-24VDC	6A					
		48VDC	3A					
		110-220VDC	1.5A					

Bell Alarm

Provides provisions for visual and alarm indication when the breaker in the Tripped status, due to Short Circuit, Overload or Undervoltage. Breaker must be re-set to open contacts.

For Use With	Catalog Number	Operating Voltage	Operating Amperage	Contacts	Mounting/Dims (mm)	Mechanical Operations	Torque	Mass
UMBW-1 UMBW-4	UMBW-BAC	12-240VAC	6A	1NO/1NC	Field Mountable..Left Side/ 9mm	10,000	1 Nm .74 Ft. lbs.	29g
		277VAC	3A					
		12-24VDC	6A					
		48VDC	3A					
		110-220VDC	1.5A					

Shunt Trip

Provides ability to trip breaker from remote location when power is applied.

For Use With	Catalog Number	Voltage/Min Trip Voltage	Amperage/ Power Consumption	Contacts	Mounting/Dims (mm)	Mechanical Operations	Torque	Mass
UMBW-1 UMBW-4	UMBW-ST12DC	12 VDC/ 8VDC	6A/ 200W	1NO/1NC	Field Mountable..Left Side/18mm	20,000	1Nm, .74ft lbs	60g
	UMBW-ST24DC	24 VDC/ 16VDC	6A/ 200W					
	UMBW-ST48DC	48 VDC/ 24VDC	2A/ 200W					
	UMBW-ST125DC	125 VDC/ 80VDC	1.5A/ 200W					
	UMBW-ST120AC	120 VAC/ 80VAC	6A/ 200W					
	UMBW-ST240AC	240 VAC/ 160VAC	6A/ 200W					
	UMBW-ST277AC	277 VAC/ 160VAC	3A/ 200W					

UMBW

Minature Circuit Breakers

Bus Bar Accessories

For Use With	Catalog Number	AMP Rating End/Center	Number of Poles	Max Voltage	Length (mm)	End Cap Catalog Number (Sold as Seperate Item)
1 Pole						
UMBW-1	UMBW-BB-1-1 	80A/160A	57	600 AC /1000 DC	1009	UMBW-BB-1-1P-END CAP
UMBW-4	UMBW-BB-4-1	80A/160A	57	1000 AC/DC	1031	UMBW-BB-4-END CAP
1 Pole with Auxiliary						
UMBW-1	UMBW-BB-1-1A 	80A/160A	37	600 AC /1000 DC	985	UMBW-BB-1-1P-END CAP
UMBW-4	UMBW-BB-4-1A	80A/160A	37	1000 AC/DC	972	UMBW-BB-4-END CAP
2 POLE						
UMBW-1	UMBW-BB-1-2 	80A/160A	56	600 AC/DC	991	UMBW-BB-1-2/3P-E CAP
UMBW-4	UMBW-BB-4-2	80A/160A	56	600 AC/DC	979	UMBW-BB-4-END CAP
2 Pole with Auxiliary						
UMBW-1	UMBW-BB-1-2A 	80A/160A	46	600 AC/DC	1009	UMBW-BB-1-2/3P-E CAP
UMBW-4	UMBW-BB-4-2A	80A/160A	46	600 AC/DC	981	UMBW-BB-4-END CAP
3 Pole						
UMBW-1	UMBW-BB-1-3 	80A/160A	57	600 AC/DC	1009	UMBW-BB-1-2/3P-E CAP
UMBW-4	UMBW-BB-4-3	80A/160A	57	600 AC/DC	997	UMBW-BB-4-END CAP
3 Pole with Auxiliary						
UMBW-1	UMBW-BB-1-3A 	80A/160A	48	600 AC/DC	982	UMBW-BB-1-2/3P-E CAP
UMBW-4	UMBW-BB-4-3A	80A/160A		600 AC/DC	936	UMBW-BB-4-END CAP

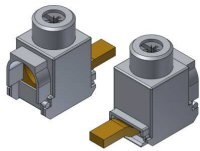
Note: Bus Bars May Be Center Fed to Increase Ampacity to Double Rated Value

Miniature Circuit Breakers

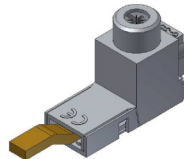
Bus Bar Accessories

For Use With	Catalog Number	AMP Rating	Number of Poles	Max Voltage	Conductor Range Min/Max	Tightening Torque
UMBW-1	UMBW-BB-1-1P-END CAP	N/A	1	N/A	N/A	N/A
UMBW-1	UMBW-BB-1-2/3-E-CAP	N/A	2 or 3	N/A	N/A	N/A
UMBW-1	UMBW-BB-1-1P-TERM	115A	1	1000 AC/DC	10AWG/1AWG	50 lb.in
UMBW-1	UMBW-BB-1-2/3P-TERM	115A	2 or 3	1000 AC/DC	10AWG/1AWG	50 lb.in
UMBW-1	UMBW-BB-1-BUS CAP-Y	N/A	5	N/A	N/A	N/A

For Use With	Catalog Number	AMP Rating	Number of Poles	Max Voltage	Conductor Range Min/Max	Tightening Torque
UMBW-4	UMBW-BB-4-END CAP	N/A		N/A	N/A	N/A
UMBW-4	UMBW-BB-4-1P-TERM	115A	1	1000 AC/DC	14AWG/2AWG	50 lb.in
UMBW-4	UMBW-BB-4-BUS CAP-Y	N/A	3	N/A	N/A	N/A



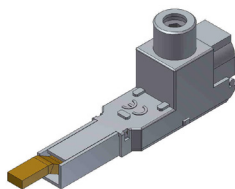
UMBW-BB-1-1P-TERM



UMBW-BB-1-2/3P-TERM



UMBW-BB-1-BUS CAP-Y



UMBW-BB-4-1P-TERM



UMBW-BB-4-BUS CAP-Y

UMBW

Breaker Technical Data

Electrical Ratings

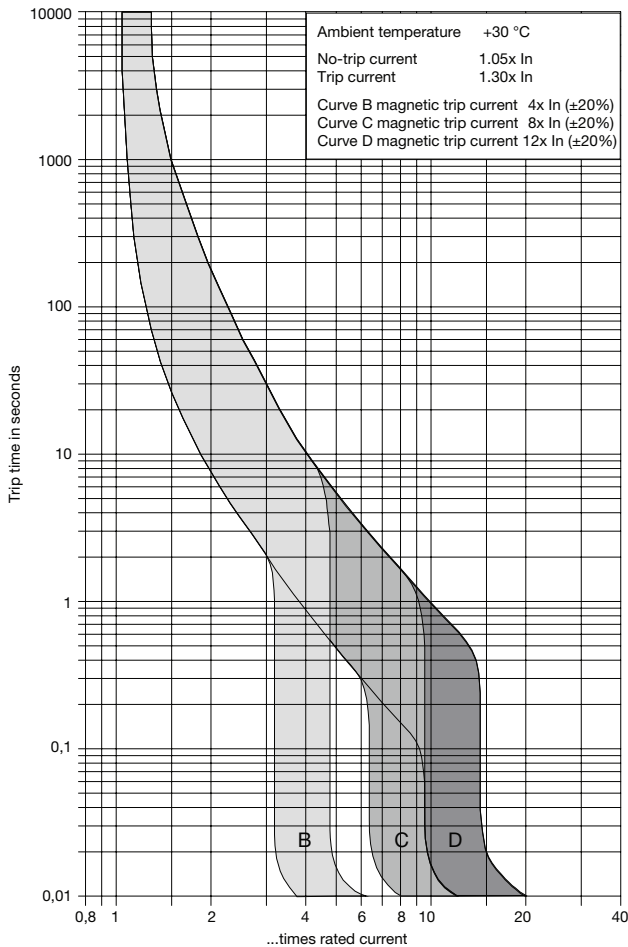
Approval	Poles	Voltage	Ampacity	Interrupting
UL1077 E468808	1 Pole	240VAC	1A - 63A	7.5kA
	1 Pole	277VAC	1A - 63A	5kA
	2,3 Pole	240VAC	1A - 63A	5kA
	2, 3 Pole	277/480Y VAC	1A - 63A	5kA
	1 Pole	60VDC - pending	1A - 63A	7.5kA
	2 Pole	125VDC - pending	1A - 63A	7.5kA
UL489 E468810	1 Pole	120VAC	1A - 63A	10kA
	2, 3 Pole	240VAC	1A - 63A	10kA
	1 Pole	277VAC	1A - 20A	10kA
	2, 3 Pole	277/480Y VAC	1A - 20A	10kA
	1 Pole	60VDC	1A - 63A	10kA
	2 Pole	125VDC	1A - 63A	10kA
IEC 60947-2	1 Pole	230VAC	1A - 63A	10kA
	2, 3 Pole	400VAC	1A - 63A	10kA

Mechanical Ratings

Tripping Curves	B,C,D
Number of Poles	1,2,3
Mounting Position	Vertical, Horizontal
Torque	2 Nm, 1.48 ft lbs Maximum
Cable Cross Section	35mm sq, 2 Awg Maximum
Ambient Temperature	-35 deg C to +70 deg C
Mass	UL1077 - 116 grams per pole
	UL489 - 131 grams per pole
Protection Class	IP20
Mechanical Operations	10,000
Vibration (sinusoidal)	+/- .38mm (10-57HZ), 5g
Test to IEC 60060-2-6	(57-500HZ)
Test to Fc	10 frequency cycles per axis
Shock Test to IEC60068-2-27, Test Ea	30g (11ms)
Corrosion Test to IEC60068-2-11 Test Ka	96hrs in 5% salt mist
Humidity Test to IEC60068-2-78 Test Cab	48hrs at 95% RH, Temp +40 deg C
Terminals	Screw with Bus Bar Connections

Operating Ampacity Based on Ambient Temperature (Degree C)

Amps	-35	-30	-25	-20	-15	-10	-5	0	+5	+10	+15	+20	+25	+30	+35	+40	+45	+50	+55	+60	+65	+70
1	1.3	1.3	1.2	1.2	1.2	1.2	1.2	1.1	1.1	1.1	1.1	1.1	1.0	1.0	1.0	0.9	0.9	0.9	0.9	0.8	0.8	0.8
2	2.5	2.5	2.5	2.4	2.4	2.3	2.3	2.3	2.2	2.2	2.1	2.1	2.0	2.0	1.9	1.9	1.8	1.8	1.7	1.7	1.6	1.5
4	5.1	5.0	4.9	4.8	4.8	4.7	4.6	4.5	4.4	4.3	4.2	4.2	4.1	4.0	3.9	3.8	3.6	3.6	3.4	3.3	3.2	3.1
6	7.7	7.6	7.5	7.3	7.2	7.1	7.0	6.8	6.7	6.6	6.4	6.3	6.1	6.0	5.8	5.7	5.5	5.4	5.2	5.0	4.8	4.6
10	13.9	13.6	13.4	13.1	12.8	12.5	12.2	11.9	11.6	11.3	11.0	10.7	10.3	10.0	9.6	9.2	8.9	8.5	8.0	7.6	7.1	6.6
16	20.8	20.4	20.1	19.8	19.4	19.1	18.7	18.3	18.0	17.6	17.2	16.8	16.4	16.0	15.6	15.1	14.7	14.2	13.7	13.2	12.7	12.8
20	25.7	25.3	24.9	24.5	24.1	23.6	23.2	22.8	22.3	21.9	21.4	21.0	20.5	20.0	19.5	19.0	18.4	17.9	17.3	16.7	16.1	15.5
25	32.2	31.7	31.2	30.7	30.2	29.7	29.1	28.6	28.0	27.4	26.8	26.2	25.6	25.0	24.3	23.7	23.0	22.3	21.6	20.8	20.0	19.2
32	41.0	40.5	39.8	39.2	38.5	37.8	37.2	36.5	35.8	35.0	34.3	33.5	32.8	32.0	31.2	30.3	29.5	28.7	27.7	26.8	25.8	24.8
40	51.6	50.9	50.0	49.2	48.4	47.5	46.6	45.7	44.8	43.9	43.0	42.0	41.0	40.0	38.9	37.9	36.8	35.6	34.4	33.2	32.0	30.6
50	64.9	64.0	62.9	61.9	60.8	59.7	58.5	57.4	56.2	55.1	53.8	52.6	51.3	50.0	47.8	46.2	44.8	43.3	41.8	40.2	38.6	35.8
63	83.5	82.1	80.6	79.2	77.7	76.2	74.7	73.1	71.5	69.9	68.2	66.5	64.8	63.0	60.1	58.2	56.2	54.2	52.0	49.8	47.5	43.1



Magnetic tripping currents are increased by 30 % on DC supplies.

B CURVE- Tripping Characteristics:

Calibrated for resistive or non/low inductive loads.
Applications: Lighting, Control Circuits

C CURVE- Tripping Characteristics:

Calibrated for general purpose inductive loads.
Applications: Fluorecent lighting, midrange inductive motors

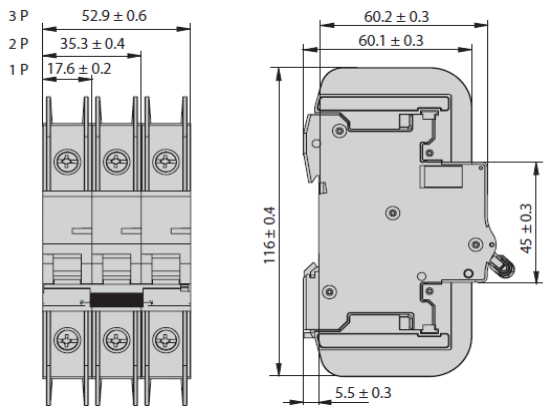
D CURVE- Tripping Characteristics:

Calibrated for inductive loads with high inrush currents
Applications: Motors, Transformers

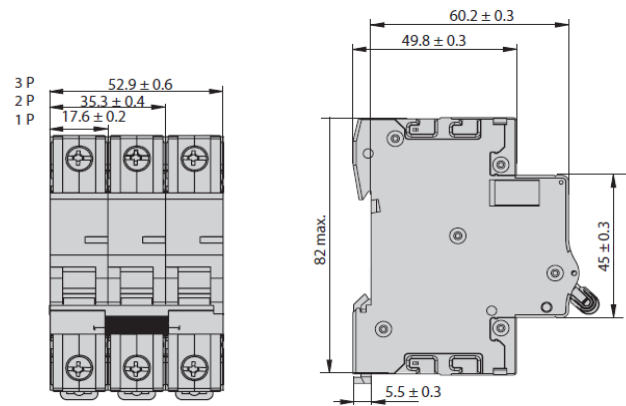
UMBW

Dimensions (mm)

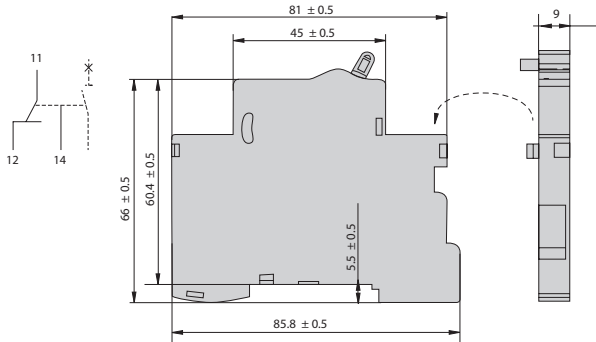
u UMBW - 4 (UL489)



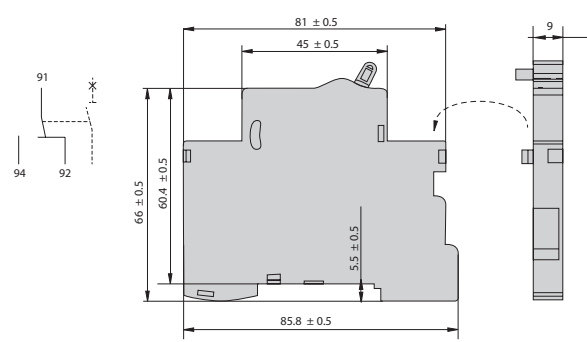
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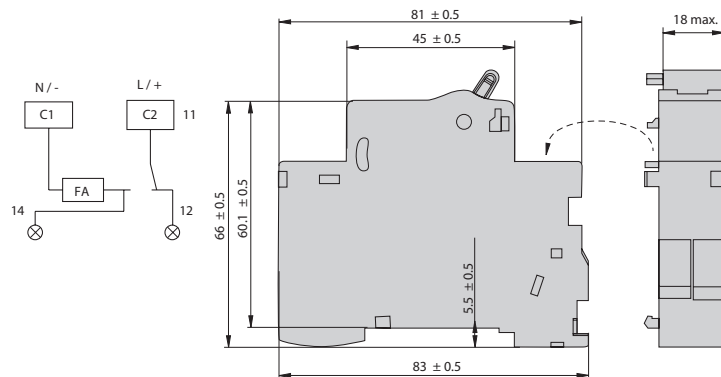
UMBW - AUX



UMBW - BAC

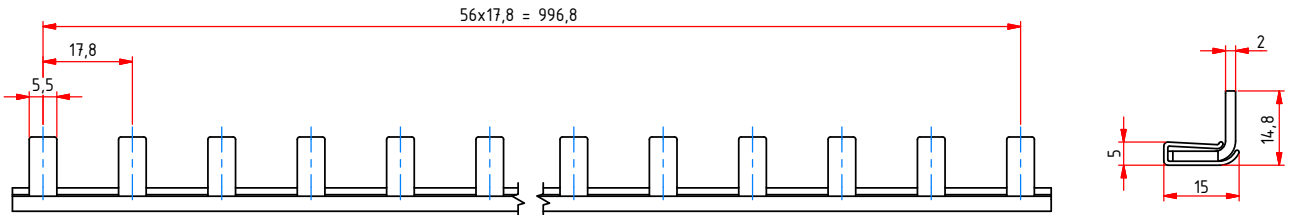
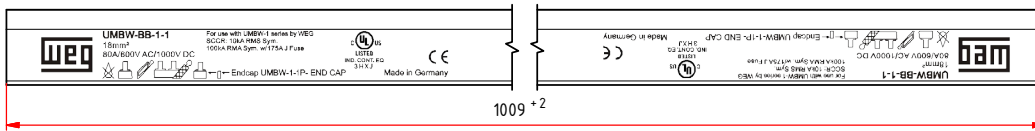


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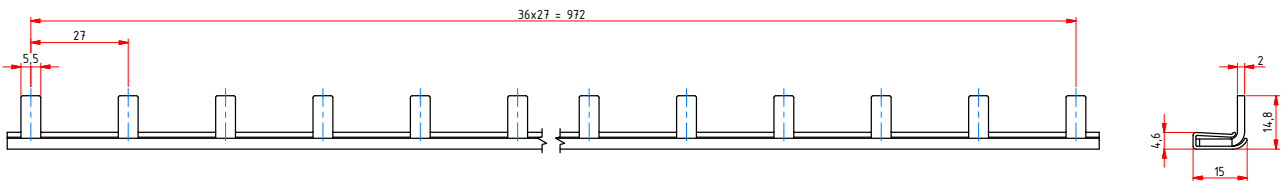
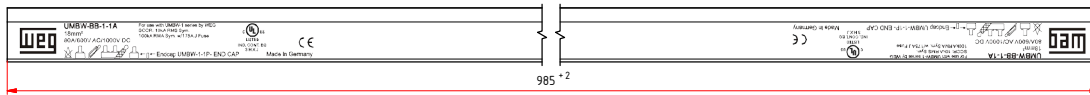


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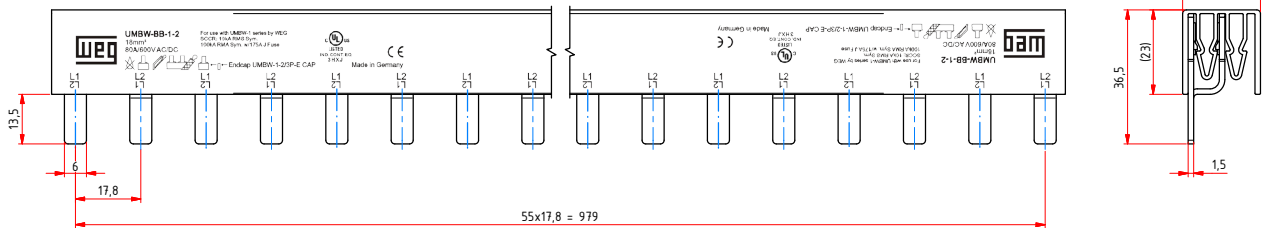
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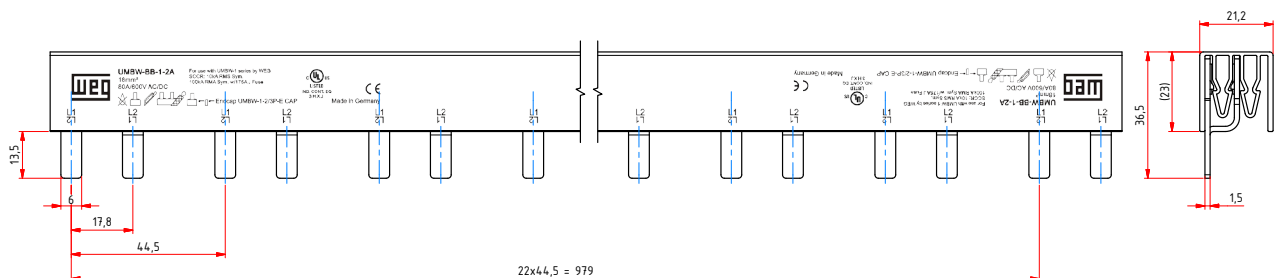
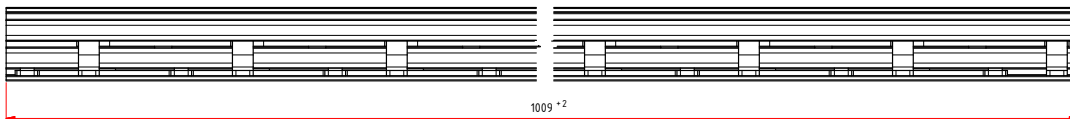
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UMBW-BB-1-2

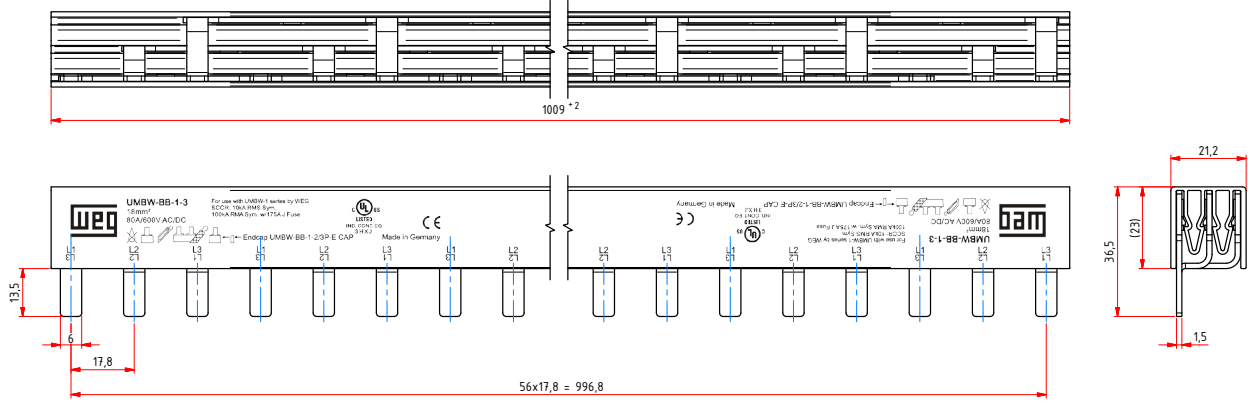


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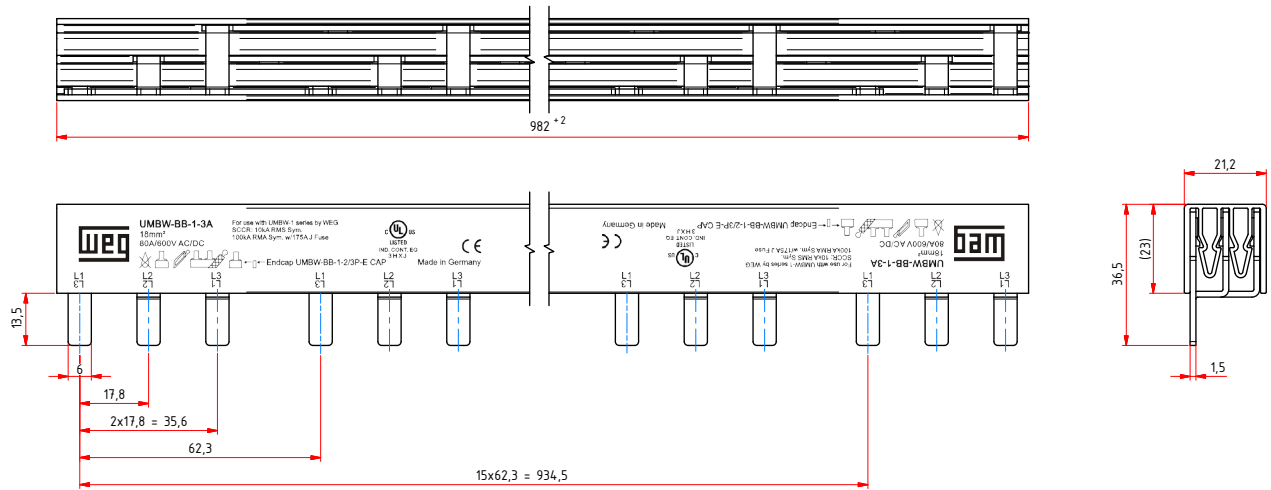


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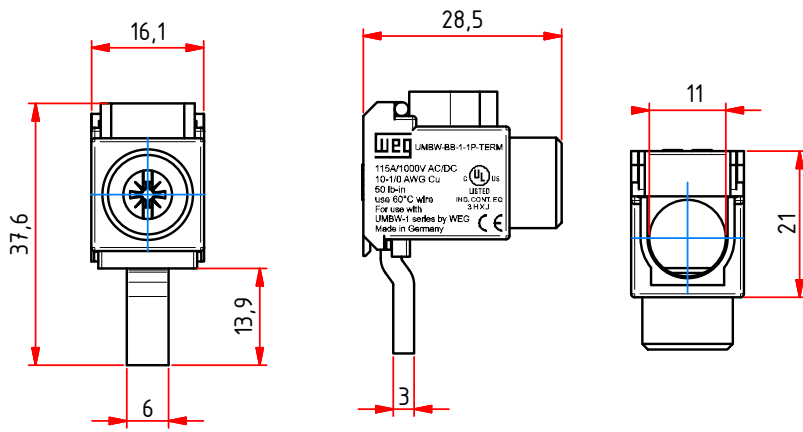
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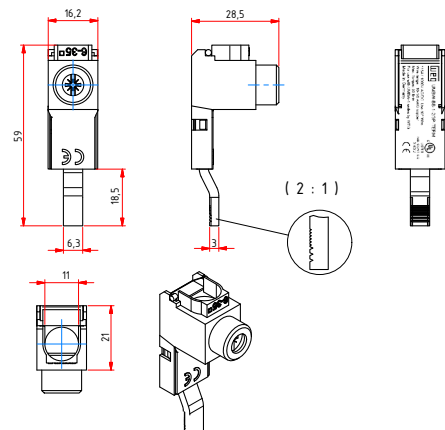
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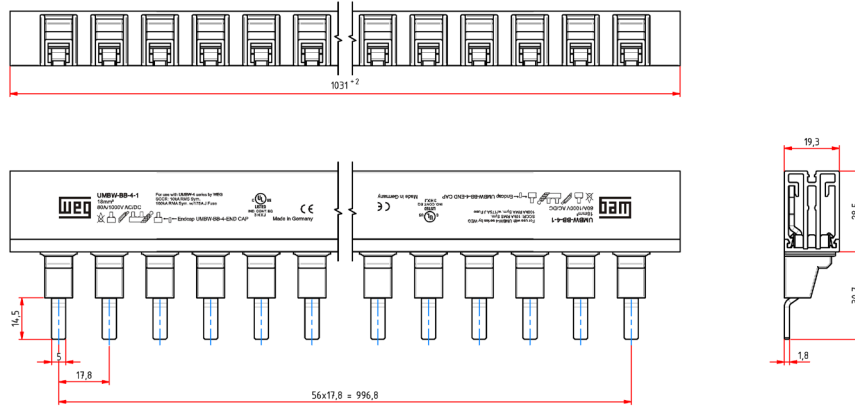
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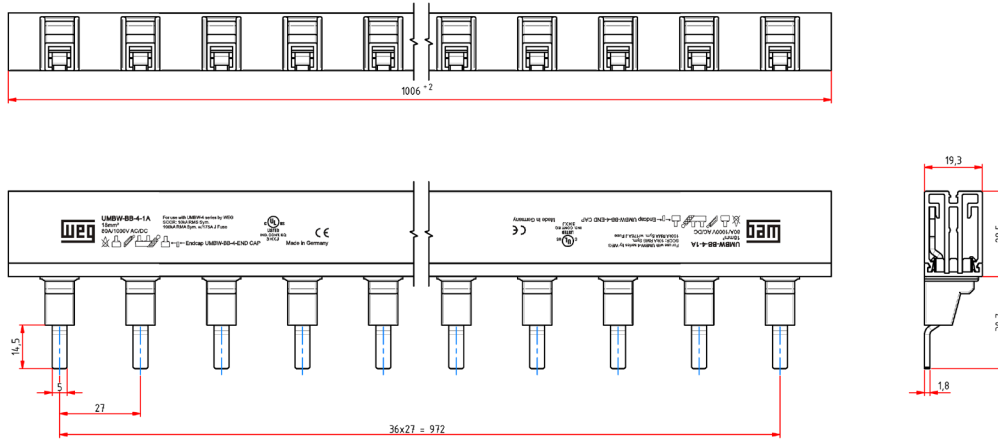
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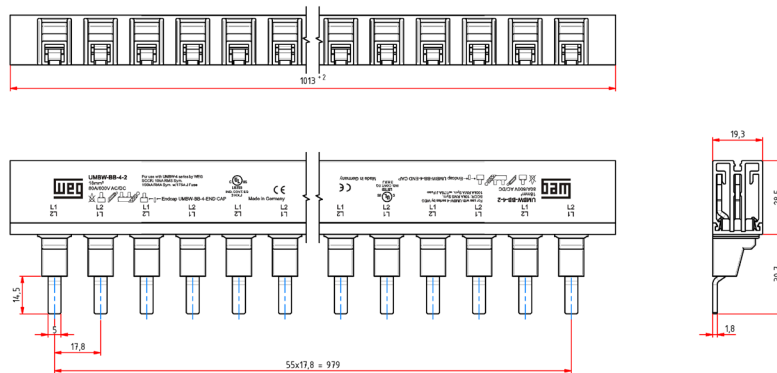
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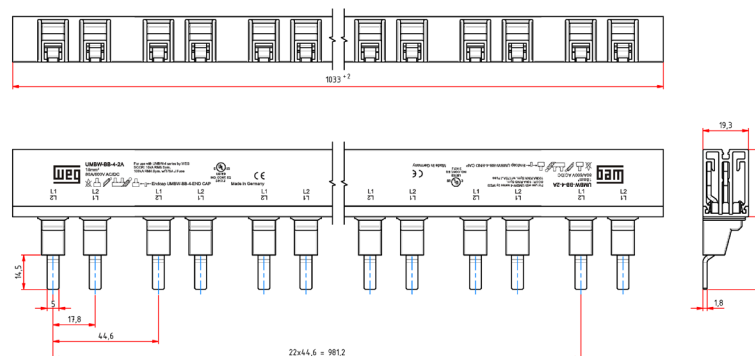
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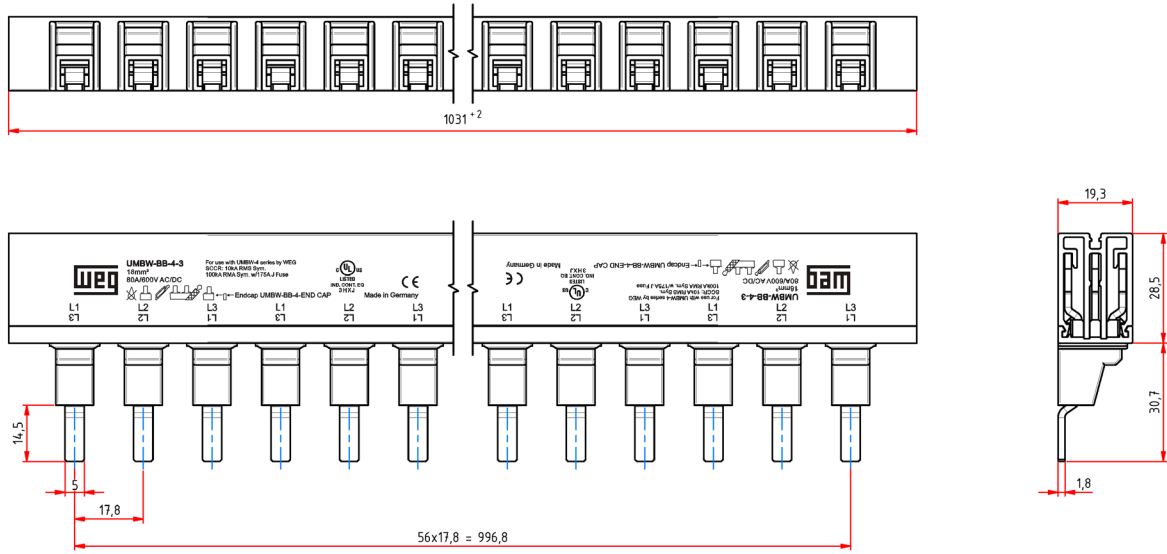


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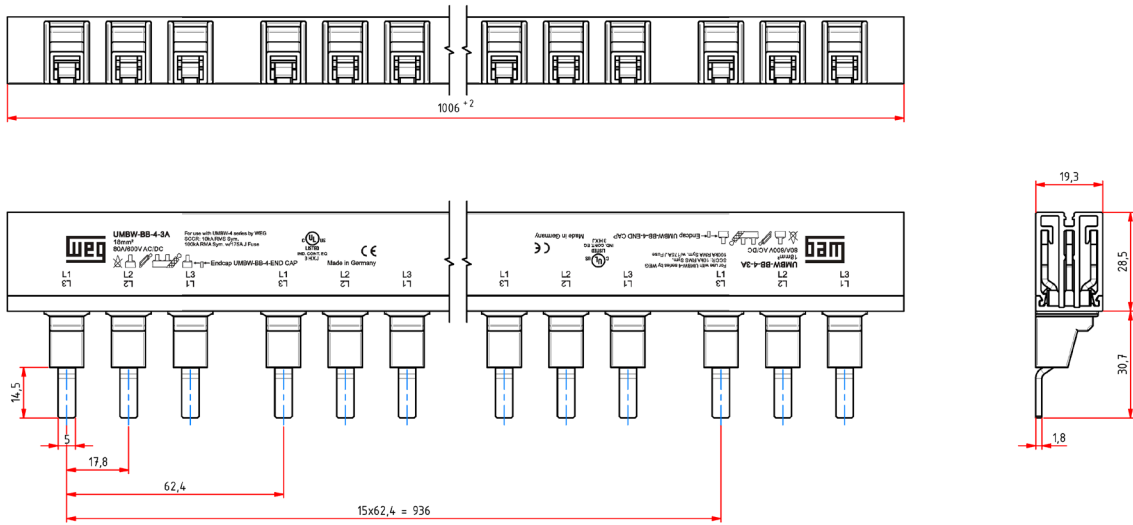


UMBW

UMBW-BB-4-3



UMBW-BB-4-3A



UMBW-BB-4-1P-TERM

