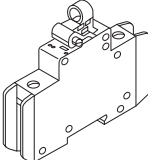
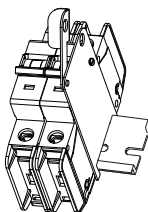
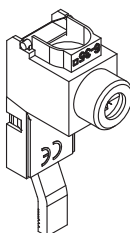
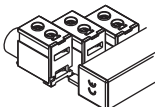


Accessories

FAZ-NA and FAZ-NA-L UL 489 Breakers

Description	Catalog Number
Contact	
Two-pole contact or auxiliary contact/trip indicating contact	Z-NHK ①
	
Auxiliary Contact	
Auxiliary contact	Z-IHK-NA
	
Shunt Trip	
Shunt trip 110–415 Vac	FAZ-XAA-NA110-415VAC
Shunt trip 12–110 Vac	FAZ-XAA-NA12-110VAC
	
Padlock Hasp	
Padlock hasp	Z-IS/SPE-1TE
	
Lockoff Device	
UL lockoff device	FAZPLOFF
	

FAZ-NA and FAZ-NA-L UL 489 Breakers, continued

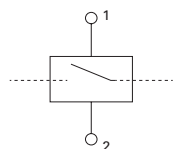
Description	Catalog Number
Busbar	
Busbar—single-pole, 6 terminals ②③④⑤	Z-SV/UL-16/1P-1TE/6
Busbar—single-pole, 12 terminals ②③④⑤	Z-SV/UL-16/1P-1TE/12
Busbar—single-pole, 18 terminals ②③④⑤	Z-SV/UL-16/1P-1TE/18
Busbar—two-pole, 6 terminals ②③④⑤	Z-SV/UL-16/2P-2TE/6
Busbar—two-pole, 12 terminals ②③④⑤	Z-SV/UL-16/2P-2TE/12
Busbar—two-pole, 18 terminals ②③④⑤	Z-SV/UL-16/2P-2TE/18
Busbar—three-pole, 6 terminals ②③④⑤	Z-SV/UL-16/3P-3TE/6
Busbar—three-pole, 12 terminals ②③④⑤	Z-SV/UL-16/3P-3TE/12
Busbar—three-pole, 18 terminals ②③④⑤	Z-SV/UL-16/3P-3TE/18
	
Busbar Shroud	
Three-pole busbar shroud	ZV-BS-UL
	
Extension Terminal	
Extension terminal—35 mm ² (10–1/0 AWG)	Z-EK/35/UL
	
Bus Connector	
Bus connector—conductors up to 50 mm ² (–1/0 AWG)	Z-EB/50/UL
	

Notes

- ① Voltage of FAZ-NA circuit breaker is limited to 300V with this auxiliary contact installed.
- ② Do not cut commoning link.
- ③ A maximum of three commoning links may be used in conjunction. Each breaker connected to the commoning link must have the same number of poles for proper use.
- ④ Not for use with ring-tongue circuit breakers.
- ⑤ Bus may be center fed for high current capacity.

Shunt trip release FAZ-XAA-NA

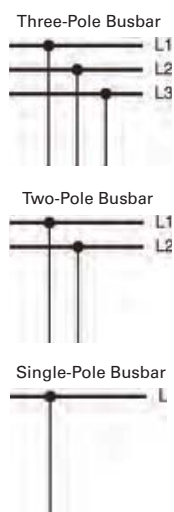
- Remote release for subsequent mounting onto FAZ-NA/RT
- Additional installation of standard auxiliary switch is possible
- Position indicator red–green

Connection Diagram**Shunt Trip Release FAZ-XAA-NA**

Description	FAZ-XAA-NA12-110VAC	FAZ-XAA-NA110-415VAC
Electrical		
Can be mounted onto	FAZ-NA / FAZ-NA-DC / FAZ-RT	FAZ-NA / FAZ-NA-DC / FAZ-RT
Operational voltage range	12–110 Vac 12–60 Vdc	110–415 Vac 110–230 Vdc
Frequency	50/60 Hz	50/60 Hz
Mechanical		
Frame size	45 mm	45 mm
Device height	105 mm	105 mm
Device width	17.5 mm	17.5 mm
Mounting	Quick fastening with two lock-in positions on EN 50022	
Degree of protection, built-in	IP40	IP40
Terminal protection	Finger and hand touch safe according to BGV A3, ÖVE-EN 6	
Terminals	Open mouthed/lift	Open mouthed/lift
Terminal capacity	18–10 AWG	18–10 AWG
One and two wires		

Busbar block UL 489 (pin)

- Tested according to UL 489
- Do not cut
- Extension terminal 35 mm² Z-EK/35/UL for copper conductors
- Incoming terminal 50 mm² Z-EB/50/UL
- For covering of not used pins, use busbar tag shrouds ZV-BS-UL

Connection Diagrams**Busbar Block UL 489 (Pin)**

Description	UL 489	IEC/EN 60947-2
Electrical		
Rated operational voltage	480/277 Vac 96 Vdc	—
Rated frequency	50/60 Hz	—
Rated voltage	480 Vac	690 Vac
Overvoltage category	—	III
Rated impulse withstand voltage U_{imp}	—	9.5 kV
Rated current	80A at 40°C	80A at 30°C
Rated conditional short-circuit current AC with 350A gG	—	15 kA
Short-circuit current	10 kA	—
Mechanical		
Busbar cross section	—	16 mm ² Cu
Flame class according to UL 94	V0	—
Pollution degree	—	2
Comparative tracking index	—	CTI 600
Minimum clearance (internal/external)	—	> 9.5/25.4 mm
Minimum creepage distance (internal/external)	—	> 12.7/50.8 mm
Resistance to climatic conditions	—	According to DIN/EN 60068

1.2

Miniature Circuit Breakers and Supplementary Protectors

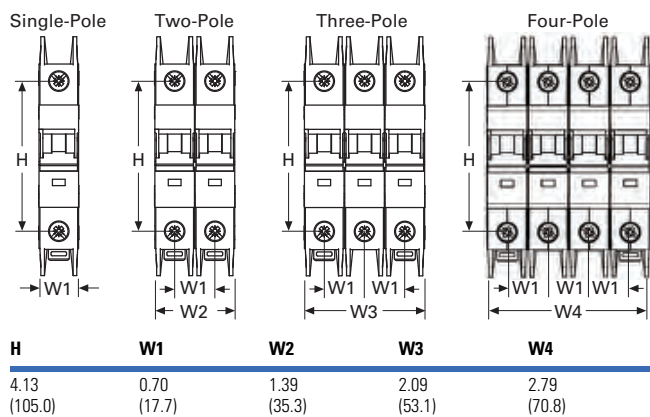
UL 489 DIN Rail Miniature Circuit Breakers

1

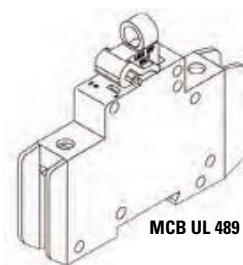
Dimensions

Approximate Dimensions in Inches (mm)

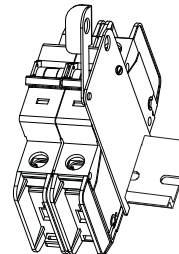
Miniature Circuit Breakers



Lockout Attachment— Z-IS/SPE-1TE

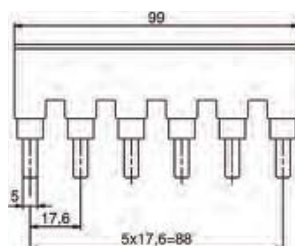


UL Lockoff Device— FAZPLOFF

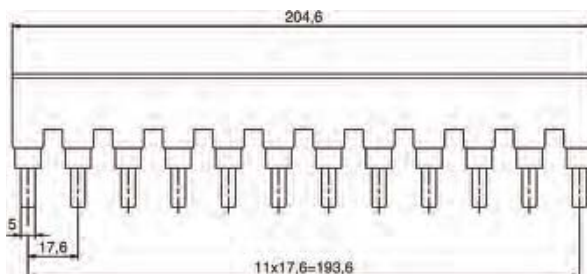


Accessories

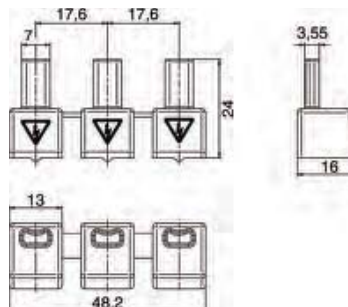
Z-SV/UL-16/6



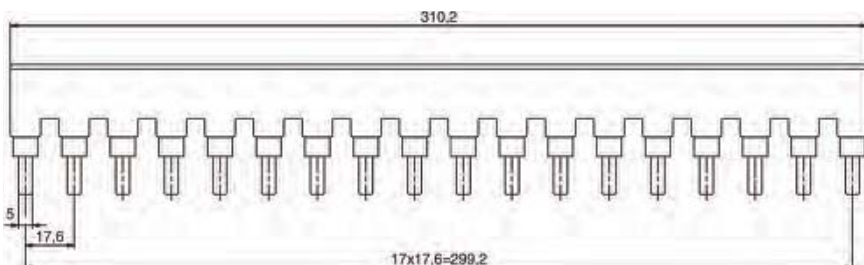
Z-SV/UL-18...12



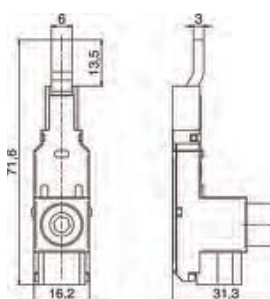
ZV-BS-UL



Z-SV/UL-16.../18



Z-EK/35/UL



Z-EK/35/UL

Description	UL 489	IEC/EN 60947-2
U_e	480 Vac/96 Vdc	240/415 Vac
f	50/60 Hz	50/60 Hz
U_{imp}	—	9.5 kV
I_e	80A at 40°C	80A at 30°C
	10–1/0 AWG 60/75°C Cu	2.5–35 mm ² Cu
	0.56 in	14 mm

Z-EB/50/UL

Description	UL 489	IEC/EN 60947-2
U_e	480 Vac/96 Vdc	240/415 Vac
f	50/60 Hz	50/60 Hz
U_{imp}	—	9.5 kV
I_e	115A at 40°C	160A at 30°C
	#1–14 AWG 60/75°C Cu	1.5–50 mm ² Cu
	0.56 in	14 mm