

E2000 Miniature Circuit Breakers – UL 489

EP100 ULH

Performance

Thermal setting In	(A)	0.5-32
Rated voltage AC Un	(V)	120/240, 110
Minimum operating voltage U _{B min}	(V)	12
Tripping characteristics		B-C-D
Selectivity class		3
Mechanical/electrical endurance		20000/10000
Tropicalisation acc. to IEC 60068-2-28/2-30		95% RH at 55°C
Terminal capacity flexible/rigid cable	(mm ²)	25-35
Poles		1,2,3
Weight	(g/pole)	130



Short-circuit Capacity

Per UL 1077 & CSA 22.2 No. 235-1989 (File E151139)

Poles	Max. Voltage Rating		Short Circuit Rating kAIC RMS Symmetrical				kAIC DC	
	AC	DC	120	120/ 240	277	480Y/ 277	50	110
1	110	—	10	10	—	—	—	—
2	240	—	10	10	—	—	—	—
3	240	—	10	10	—	—	—	—

AC acc. to UL 489

Poles	V	I _{cc} (kA)
1	120	10
2,3	240	10

AC acc. to IEC 60947-2

Poles	V	I _{cu} (kA)*
1	127	30
	240	15
	415	4
2	127	40
2,3	240	30
	415	150
	440	10

*I_{cs} = 75% I_{cu}

DC acc. to IEC 60947-2

Poles	U _n (V)	I _{cu} (kA) / I _{cs} (kA)
1	60	25
2	125	30

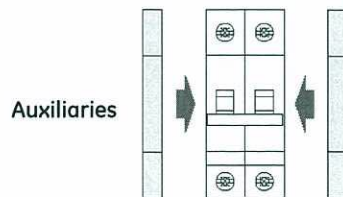
Applications








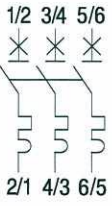
Approval / Marking





Add-on Devices



EP100 ULH Series, 10 kAIC, Tripping Characteristics B-C-D – UL 489

Poles	In (A)	Tripping Characteristic			List Price Each, GO-135VB
		B (3-5X)	C (5-10X)	D (10-20X)	
		Cat. No.	Cat. No.	Cat. No.	
 	0.5	-	EP101ULHC0.5	EP101ULHD0.5	\$122.00
	1	-	EP101ULHC01	EP101ULHD01	102.00
	2	-	EP101ULHC02	EP101ULHD02	102.00
	4	-	EP101ULHC04	EP101ULHD04	102.00
	6	EP101ULHB06	EP101ULHC06	EP101ULHD06	102.00
	10	EP101ULHB10	EP101ULHC10	EP101ULHD10	102.00
	16	EP101ULHB16	EP101ULHC16	EP101ULHD16	102.00
	20	EP101ULHB20	EP101ULHC20	EP101ULHD20	102.00
	25	EP101ULHB25	EP101ULHC25	EP101ULHD25	102.00
	32	EP101ULHB32	EP101ULHC32	EP101ULHD32	102.00
	 	0.5	-	EP102ULHC0.5	EP102ULHD0.5
1		-	EP102ULHC01	EP102ULHD01	221.00
2		-	EP102ULHC02	EP102ULHD02	221.00
4		-	EP102ULHC04	EP102ULHD04	221.00
6		EP102ULHB06	EP102ULHC06	EP102ULHD06	221.00
10		EP102ULHB10	EP102ULHC10	EP102ULHD10	221.00
16		EP102ULHB16	EP102ULHC16	EP102ULHD16	221.00
20		EP102ULHB20	EP102ULHC20	EP102ULHD20	221.00
25		EP102ULHB25	EP102ULHC25	EP102ULHD25	221.00
32		EP102ULHB32	EP102ULHC32	EP102ULHD32	221.00
 		0.5	-	EP103ULHC0.5	EP103ULHD0.5
	1	-	EP103ULHC01	EP103ULHD01	320.00
	2	-	EP103ULHC02	EP103ULHD02	320.00
	4	-	EP103ULHC04	EP103ULHD04	320.00
	6	EP103ULHB06	EP103ULHC06	EP103ULHD06	320.00
	10	EP103ULHB10	EP103ULHC10	EP103ULHD10	320.00
	16	EP103ULHB16	EP103ULHC16	EP103ULHD16	320.00
	20	EP103ULHB20	EP103ULHC20	EP103ULHD20	320.00
	25	EP103ULHB25	EP103ULHC25	EP103ULHD25	320.00
	32	EP103ULHB32	EP103ULHC32	EP103ULHD32	320.00

Accessories

	Accessory	Description	Cat. No.	List Price Each, GO-135VB	Std. Pack
	Walls	For use between 1-pole breakers of opposite polarity mounted side by side	WUL	\$5.00	10
	Padlocking bracket	For use in cutting off the numbers of poles needed	EPP	12.00	1

E2000 Miniature Circuit Breakers

Series CA Auxiliary Switch & Bell Alarm

- Common for all MCBs
- Can be coupled on both sides of MCBs
- Gold contact version available for low current and low voltage applications
- Stack up to four CA on left and right sides
- Permits the pass-through of busbars, pin and fork, top and bottom, by changing the position of the base of the auxiliaries

Performance

Change-over contacts		1 Form C
Rate current In	(A)	5
Rated voltage AC Un	(V)	240
Electrical endurance		10000
Terminal capacity flexible/rigid cable	(mm ²)	2.5
Weight	(g)	70



Functions

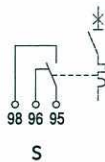
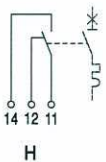
Auxiliary contacts are units to be added on to protection devices. They allow information about the status of the protection device to be monitored from a distance.

Auxiliary contact CA H (function H) reports the OPEN/CLOSED status.

CA S/H or CA S/H G act as either an auxiliary contact (function H) or a signal contact (function S). The user can set the function at the time of installation. When used as a signal contact, it reports information about the automatic tripping of the protection devices. A test button on the front simulates functions H or S. There are also a reset button for the contacts (function S) and a tripping signal (function S).

Series CA

Function	Cat. No.	List Price Each, GO-135VB	Std. Pack
H	CA H	\$47.00	1
S/H	CA S/H	59.00	1
S/H (gold contacts)	CA S/H G	59.00	1



1/2 mod.

Applications

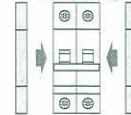


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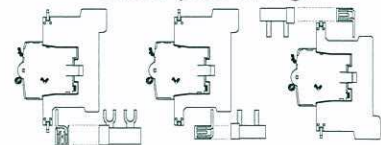


Add-on Devices

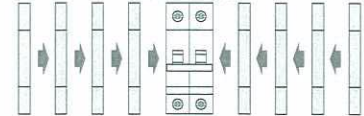
Coupling



Busbar pass-through



Stack-on



E2000 Miniature Circuit Breakers

Series CB Auxiliary Switch & Bell Alarm

- Common for all MCBs
- Can be coupled on both sides of MCBs
- There are two change-over contacts – the upper one features changeable function S/H
- CB SH/HH-R couples to the right side of the protection devices; CB SH/HH-L couple to the left
- No stack-on possibilities (only one auxiliary)
- No busbar pass-through facilities

Performance

Change-over contacts		2 Form C
Rate current I _n	(A)	5
Rated voltage AC U _n	(V)	240
Electrical endurance		10000
Terminal capacity flexible/rigid cable	(mm ²)	2.5
Weight	(g)	80

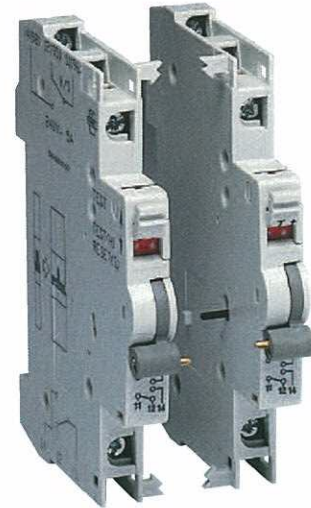
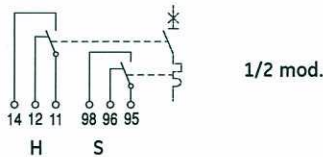
Functions

The bottom auxiliary contact (function H) reports the OPEN/CLOSED status.

The top auxiliary contact can act as either an auxiliary contact (function H) or a signal contact (function S). The user can set the function at the time of installation. When used as a signal contact, it reports information about the automatic tripping of the protection devices. A test button on the front simulates functions H or S. There are also a reset button for the contacts (function S) and a tripping signal (function S).

Series CB

Function	Coupling	Cat. No.	List Price Each, GO-135VB	Std. Pack
SH/HH	Right	CB SH/HH-R	\$87.00	1
SH/HH	Left	CB SH/HH-L	87.00	1



Applications

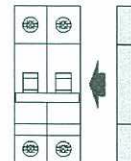


Approval / Marking



Add-on Devices

Coupling right



Coupling left

