



AC Isolation Switch

EHA High Voltage AC Disconnect

Leading Manufacturer Protects Solar Power Safety

Rev6.0 2024/03/29



EHA-315



EHA-630

AC ISOLATION SWITCH

EHA High Voltage AC Disconnect



EHA-315



EHA-630



Product Benefits

Easy to install

- Wiring: Switch is non-polarized, all types of wiring and connections are possible.
- Auxiliary contacts easily mounted.
- The operating mechanism can be placed to meet the installation requirements.

Safe reliable operation

- Reliable position indicator through visible windows.
- The opening and closing of the switch is fully independent from the speed of operation, ensuring safe operation under all conditions.
- High temperature withstand: no derating up to 70°C.
- Ambient Temperature: -40°C to +70°C.

Designed for harsh environments

- Vibration testing (from 13.2 to 100 Hz at 0.7 g).
- Shock testing (15 g during three cycles).
- Humid temperature testing (2 cycles, 55°C/131°F with 95% humidity level).
- Salt mist testing (3 cycles with humidity storage, 40°C/104°F, 93% humidity after each cycle).

AUX. contact easy-mounting

- Side mount PE pole
- Side mount auxiliary contact:
P1: 1NO+1NC P2: 2NO P3: 1NO

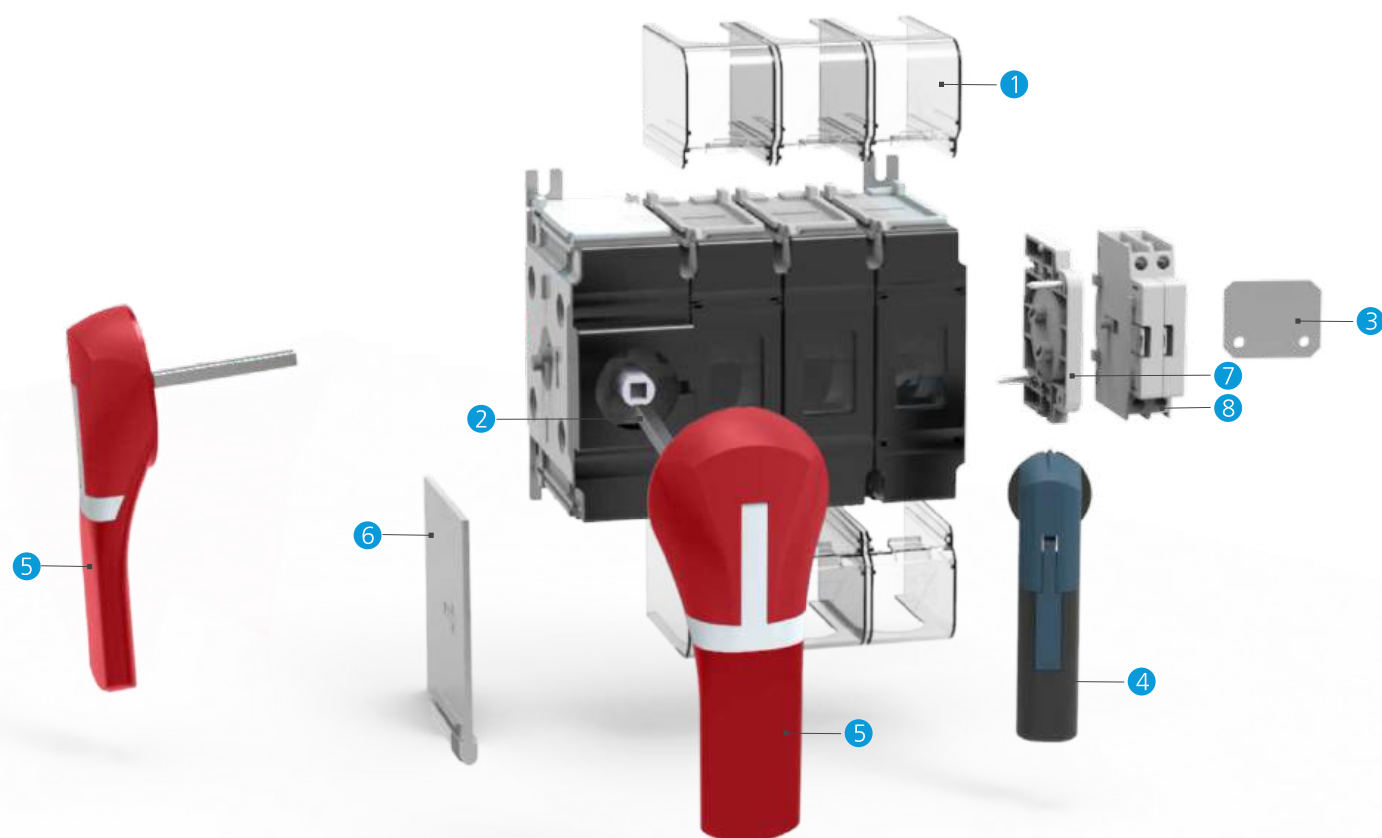
Select Code

EHA	a	-	b	x	R	-	Y
1	2		3	4	5		6

No	Description	Code	
1	High voltage AC disconnect	EHA	
2	Rated Voltage	500VAC:50 690VAC:69 1000VAC:100	
3	Installation method	DB: Directly operate the handle in the cabinet DC: Outside handle EL: Plastic enclosure box ELA: Metal enclosure box	
4	Rated current	160A, 250A, 315A, 400A 630A, 800A	
5	Knob lock	R: With lock Nil: Without lock	
6	Pole array	DB/DC 03,12,04,22, 21,30,40	EL 12,21,22

*Note: The left digit represents the number on the left side of the operating mechanism, and the right digit represents the number on the right side of the operating mechanism

EHA High Voltage AC Disconnect



- | | | | |
|---------------------------|-----------------|----------------|-------------------------------|
| ① Terminal shroud | ② Extension rod | ③ Bridge bar | ④ Direct handle |
| ⑤ Door interlocked handle | ⑥ Phase barrier | ⑦ AUX. coupler | ⑧ AUX. contact(2no or 1NC1NO) |

***Note:Accessories**

1. Phase barrier: PB315 for EHA-315, PB630 for EHA-630;
2. Terminal shield: TS315 for EHA-315, TS630 for EHA-630;
3. Extension Rod: ER0620/ER1020,0620 represents square rod size 6, length 200,1020 represents square rod size 10, length 200, and the length can be customized.

AC ISOLATION SWITCH

EHA High Voltage AC Disconnect

Technical Data

Rated current Ie					160A	250A	315A	400A	400A	630A	800A
Frame size					EHA-315			EHA-315H	EHA-630		
Thermal current (Ith)					160	250	315	400	400	630	800
Rated insulation voltage (Ui)					1000	1000	1000	1000	1000	1000	1000
Rated impulse withstand voltage Uimp (KV)					12	12	12	12	12	12	12
Code	Number of poles		Rated voltage	Utilisation category	Ie(A)	Ie(A)	Ie(A)	Ie(A)	Ie(A)	Ie(A)	Ie(A)
EHA	3P	4P	500VAC	AC-20A/AC-20B	160	250	315	400	400	630	800
EHA	3P	4P	500VAC	AC-21A/AC-21B	160	250	315	400	400	630	800
EHA	3P	4P	500VAC	AC-22A/AC-22B	160	250	315	400	400	630	800
EHA	3P	4P	500VAC	AC-23A/AC-23B	160	250	315	400	400	630	800
EHA	3P	4P	690VAC	AC-20A/AC-20B	160	250	315	400	400	630	800
EHA	3P	4P	690VAC	AC-21A/AC-21B	160	250	315	400	400	630	800
EHA	3P	4P	690VAC	AC-22A/AC-22B	160	250	315	400	400	630	800
EHA	3P	4P	690VAC	AC-23A/AC-23B	160	250	315	400	400	630	800
EHA	3P	4P	1000VAC	AC-20A/AC-20B	160	250	315	400	400	630	800
EHA	3P	4P	1000VAC	AC-21A/AC-21B	160	250	315	400	400	630	800
EHA	3P	4P	1000VAC	AC-22A/AC-22B	160	250	315	400	400	630	800
EHA	3P	4P	1000VAC	AC-23A/AC-23B	80	125	160	200	200	315	400
Short-circuit capacity (1000VAC no protection)											
Rated short time withstand current Icw 1s (kAeff)					Icw	8	8	15	15	20	20
Rated short-circuit making capacity Icm(kA peak)- 60 ms					Icm	30	30	65	65	80	80
Cable											
Recommended Cu rigid cable cross section(mm²)					70	150	185	240	240	2x185	2x240
Recommended Cu busbar width(mm²)					-	-	-	-	-	2x40x5	2x50x5
Mechanical characteristics											
Durability (number of operating cycles)					8000	8000	8000	8000	8000	8000	8000
Number of cycles of operation with current					1000	1000	1000	1000	1000	1000	1000
Rated operational power											
EHA (Kw)			230V	AC-23	48	75	100	132	132	200	250
EHA (Kw)			400V	AC-23	80	140	160	220	220	355	450
EHA (Kw)			415V	AC-23	88	145	180	230	230	355	450
EHA (Kw)			500V	AC-23	112	170	220	280	280	400	560
EHA (Kw)			690V	AC-23	144	250	315	400	400	630	800

Add-on Auxiliary Contacts

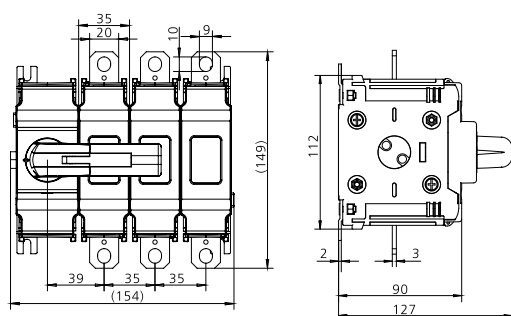


Type	EAS80-P1	EAS80-P2	EAS80-P3
Contacts	1NO+1NC	2NO	1NO
Width	9mm	9mm	9mm
Parameter	AC-13: 10A, 230V~ AC-15: 6A, 230V~		
Function	1NO+1NC 	2NO 	1NO

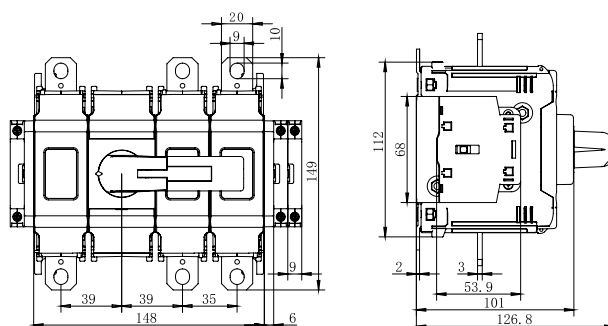
EHA High Voltage AC Disconnect

Dimensions: Frame 315, I_{th} = 160A, 250A, 315A, 400A

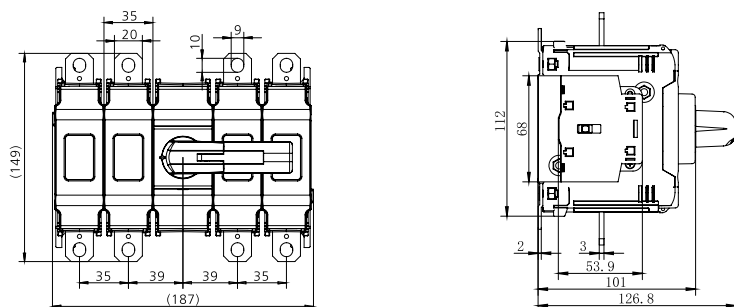
EHA-DB315R-03



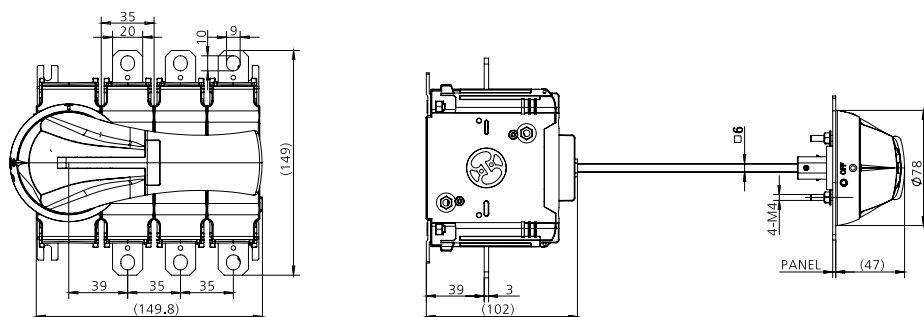
EHA-DB315R-12



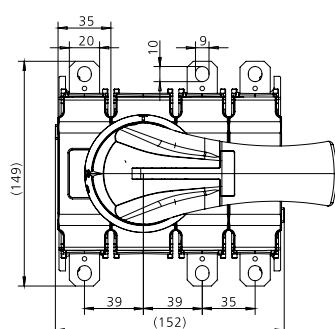
EHA-DB315R-22



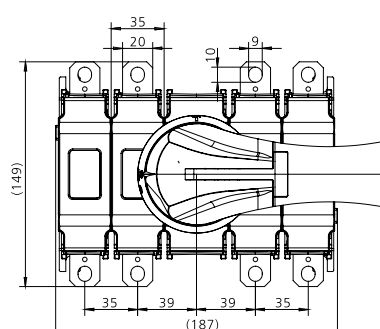
EHA-DC315R-03



EHA-DC315R-12

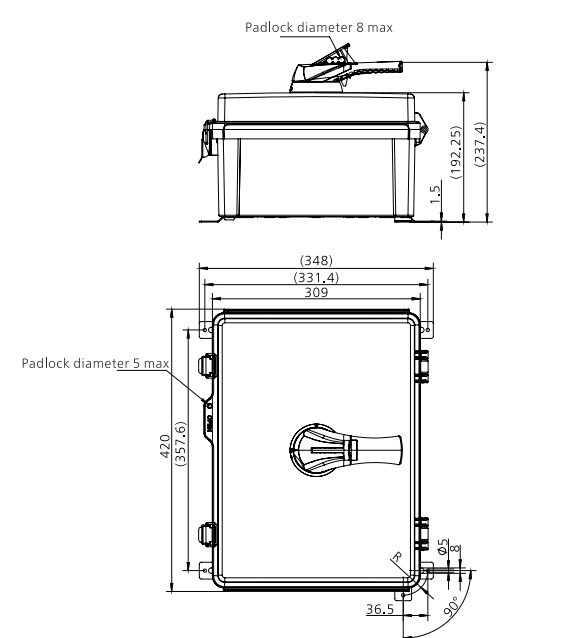
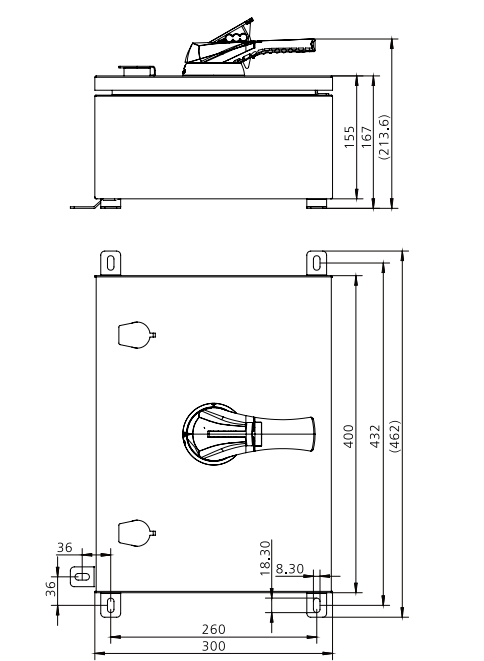


EHA-DC315R-22

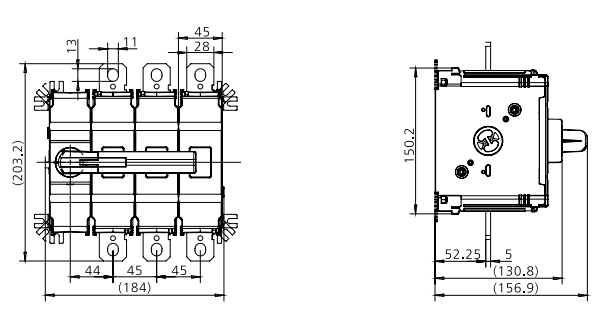
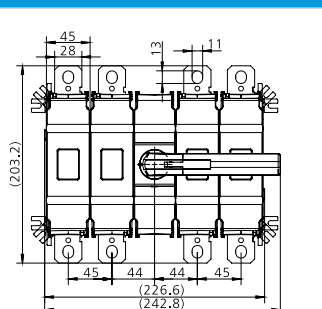


AC ISOLATION SWITCH

EHA High Voltage AC Disconnect

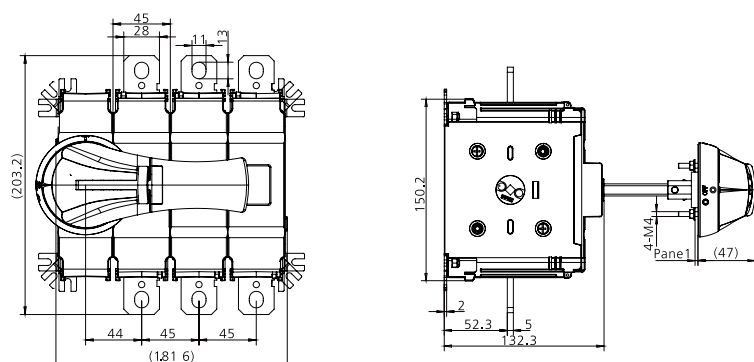
EHA-EL315R	EHA-ELA315R
 Technical drawing of the EHA-EL315R AC isolation switch. The front view shows a rectangular unit with a central handle. Dimensions include a width of 348 mm (331.4 mm) and a height of 420 mm (357.6 mm). A padlock diameter of 5 mm max is indicated. The side view shows a depth of 155 mm (192.25 mm) and a total height of 167 mm (237.4 mm). A padlock diameter of 8 mm max is also indicated.	 Technical drawing of the EHA-ELA315R AC isolation switch. The front view shows a rectangular unit with a central handle. Dimensions include a width of 260 mm (300 mm) and a height of 400 mm (462 mm). The side view shows a depth of 155 mm (192.25 mm) and a total height of 167 mm (237.4 mm).

Dimensions: Frame 630, Ith=400A, 630A, 800A

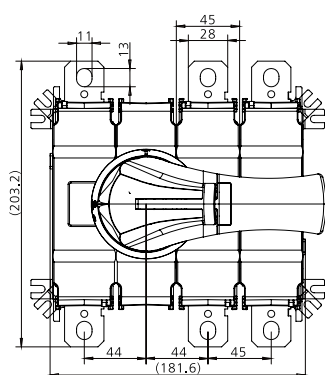
EHA-DB630R-03	
 Technical drawing of the EHA-DB630R-03 AC isolation switch. The front view shows a rectangular unit with a central handle. Dimensions include a width of 184 mm (181.6 mm) and a height of 203.2 mm. The side view shows a depth of 150.2 mm (130.8 mm) and a total height of 156.9 mm.	 Technical drawing of the EHA-DB630R-12 AC isolation switch. The front view shows a rectangular unit with a central handle. Dimensions include a width of 226.6 mm (242.8 mm) and a height of 203.2 mm.

EHA High Voltage AC Disconnect

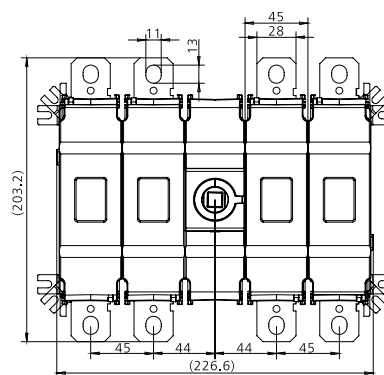
EHA-DC630R-03



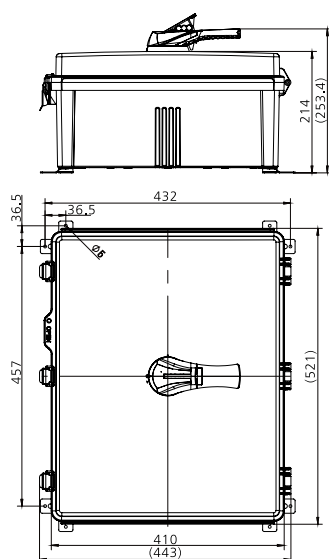
EHA-DC630R-12



EHA-DC630R-22



EHA-EL630R



EHA-ELA630

