

EDS

DC isolation switches



DC ISOLATION SWITCH



Features

- Non-polarity DC Isolator Switch
- Modular design, optional 2-10 levels.
- Positive contact or reverse contact optional.
- Single Hole Mounting, Panel Mounting, Distribution Board, Door Clutch or Enclosure optional.
- Dynamic sealing design and world class sealing materials guarantee an IP66 protection rate.
- DC 1500V insulation voltage design, passed IEC/EN60947-3:2009+A1+A2, AS60947.3, UL508I,GB/T14048.3 test, with TUV, CE, CB, SAA, UL, CCC certifications.

Select Code

E	D	S	□	□	/	□	/	□	□
1	2	3	4	5	6	7	8		

Code	Name	Description
1	 brand	E
2	DC	D
3	Isolation Switch	S
4	Series	5: Series 5 (Reverse Contact) 6: Series 6 (positive contact)
5	Mounting Type	HM: Single Hole Mounting PM: Panel Mounting DB: Distribution Board DC: Door Clutch
6	1000V Rated Current	13: 13A 20: 20A 25: 25A 40: 40A 50: 50A UL 13: 13A 20: 20A 25: 25A 30: 30A
7	Pole	2: 2P 3: 3P 4: 4P 6: 6P 8: 8P 10: 10P 2H/3H/4H 4T/4B/4S UL 2: 2P 3: 3P 4: 4P 6: 6P 8: 8P 10: 10P
8	Knob lock	R: lockable Nil: Without lock

Note* The direction of PM rotary buttons is 9 o'clock to close and 12 o'clock to open, and the rest of the rotary buttons are 12 o'clock to close and 3 o'clock to close.
HM series rotary buttons have both the directions.
If you have special needs, please kindly check with us.

Note* Installation method: 6 series: HM, PM (with lock only), DB, DC, EL, ELA
5 series: HM, PM (with lock only)



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Technical data

According to EN60947-3, AS 60947-3. Utilization category DC-PV1 / DC-PV2.

Main Parameters

Model	A	13	20	25	40	50
Rated insulation voltage	Ui	V	1500	1500	1500	1500
Rated thermal current	Ith	A	32	40	55	55
Rated impulse withstand voltage	Uimp	V	8000			
Rated short-time withstand current (1 ms)	Icw	A	780			
Rated short-time making capacity	Icw	A	1200			

Maximum cable cross sections (incl. jumper)

Solid or standard	mm²	4-16
Flexible	mm²	4-16
Flexible (+ multicore cable end)	mm²	4-16

Torque

Tightening torque terminal screws M4.	N·m	1.2-1.8
Tightening torque single hole mounting nut M16	N·m	2.0-2.3
Tightening torque knob screws M3	N·m	0.5-0.7
Switching on or off torque	N·m	0.9-1.3

General parameters

Knob positions		12 o'clock OFF, 3 o'clock ON (9 o'clock OFF, 12 o'clock ON)
Electrical Life	Actual	3000 Cycles
	Standard	300 Cycles
Mechanical Life	Actual	10000 Cycles
	Standard	10000 Cycles
Distance of contacts (per pole)		8mm
Operation temperature		-40°C to +85°C
Store temperature		-40°C to +85°C
Pollution degree		3
Overvoltage category		II
IP rating of shafte and mounting nut		IP66

DC ISOLATION SWITCH



Technical data

According to EN60947-3, AS/NZS 60947-3. Utilization category DC-PV2 / DC-PV1.

Layers	Voltage / current (DC-PV1)					
	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
2/3/4/6/8/10	32	26	13	10	5	EDS5(6)XX/13/ZY
	40	30	20	12	6	EDS5(6)XX/20/ZY
	55	45	25	15	8	EDS5(6)XX/25/ZY
	/	50	40	30	20	EDS5(6)XX/40/ZY
	/	55	50	40	30	EDS5(6)XX/50/ZY
4T/B/S	/	/	32	26	13	EDS5(6)XX/13/ZY
	/	/	40	30	20	EDS5(6)XX/20/ZY
	/	/	55	40	30	EDS5(6)XX/25/ZY
	/	/	/	/	45	EDS5(6)XX/40/ZY
	/	/	/	/	50	EDS5(6)XX/50/ZY
3T/6T/9T	/	/	32	23	10	EDS5(6)XX/13/ZY
	/	/	40	30	13	EDS5(6)XX/20/ZY
	/	/	55	40	20	EDS5(6)XX/25/ZY
	/	/	/	45	30	EDS5(6)XX/40/ZY
	/	/	/	50	40	EDS5(6)XX/50/ZY
2H	50	26	13	10	5	EDS5(6)XX/13/ZY
	64	30	20	12	6	EDS5(6)XX/20/ZY
	80	45	25	15	8	EDS5(6)XX/25/ZY
	90	50	40	30	20	EDS5(6)XX/40/ZY
	100	55	50	40	30	EDS5(6)XX/50/ZY
3H	/	50	13	10	5	EDS5(6)XX/13/ZY
	/	64	20	12	6	EDS5(6)XX/20/ZY
	/	80	25	15	8	EDS5(6)XX/25/ZY
	/	90	40	30	20	EDS5(6)XX/40/ZY
	/	100	50	40	30	EDS5(6)XX/50/ZY
4H	/	/	50	10	5	EDS5(6)XX/13/ZY
	/	/	64	12	6	EDS5(6)XX/20/ZY
	/	/	80	15	8	EDS5(6)XX/25/ZY
	/	/	90	30	20	EDS5(6)XX/40/ZY
	/	/	100	40	30	EDS5(6)XX/50/ZY



DC ISOLATION SWITCH

Technical data

Layers	Voltage / current (DC-PV2)					
2/3/4/6/8/10	600Vdc	800Vdc	1000Vdc	1200Vdc	1500Vdc	Model
	13	13	6	4	3	EDS5(6)XX/13/ZY
	20	15	8	6	4	EDS5(6)XX/20/ZY
	25	23	10	8	5	EDS5(6)XX/25/ZY
	40	30	20	15	8	EDS5(6)XX/40/ZY
	50	40	25	18	10	EDS5(6)XX/50/ZY
4T/B/S/3T/6T/9T	/	/	12	/	/	EDS5(6)XX/13/ZY
	/	/	18	/	/	EDS5(6)XX/20/ZY
	/	/	20	/	/	EDS5(6)XX/25/ZY
	/	/	40	/	/	EDS5(6)XX/40/ZY
	/	/	50	/	/	EDS5(6)XX/50/ZY

According to UL 508i

Layers	Voltage / current (UL 508i)			
2/3/4/6/8/10	600VDC	800VDC	1000VDC	Model
	30	30	13	EDS5(6)XX/13/ZY
	30	30	20	EDS5(6)XX/20/ZY
	30	30	25	EDS5(6)XX/25/ZY
	30	30	30	EDS5(6)XX/30/ZY

Note* 10P products needs to be customized, please kindly contact us if need them

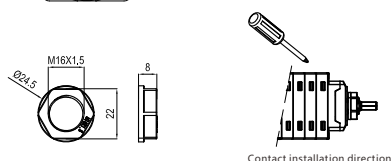
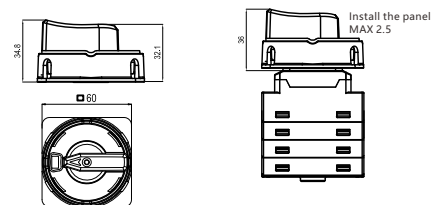
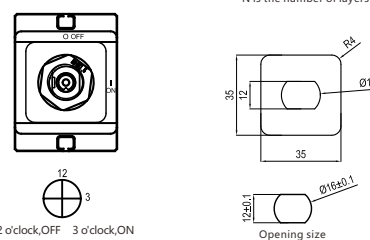
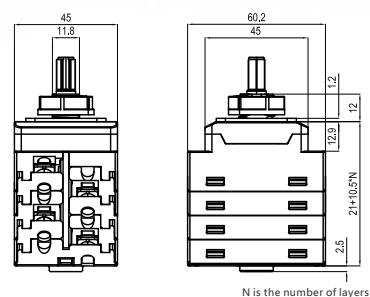
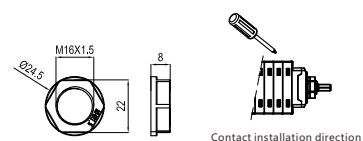
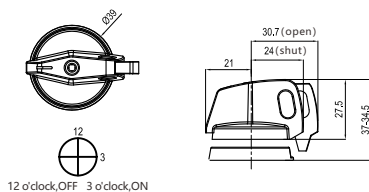
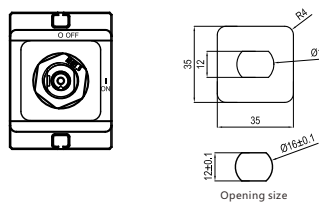
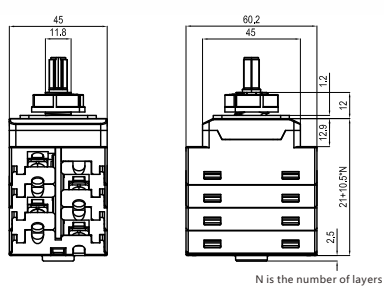
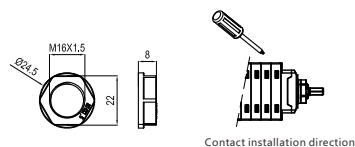
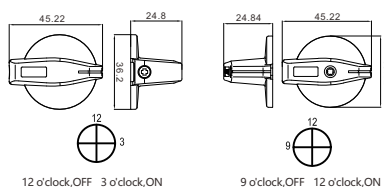
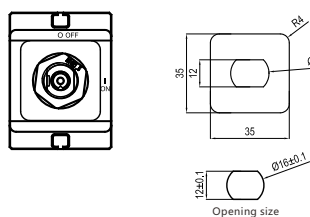
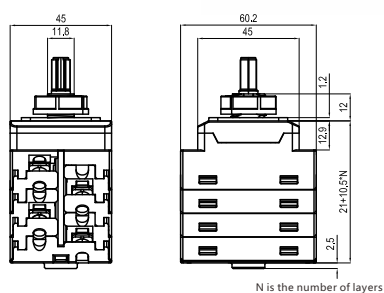
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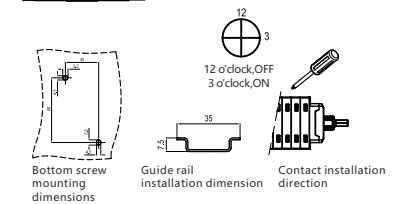
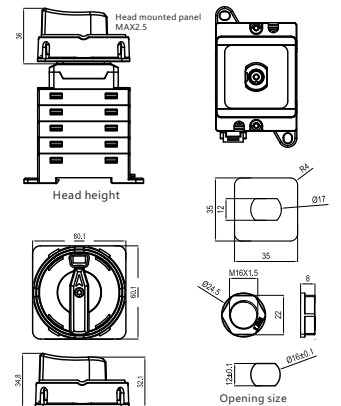
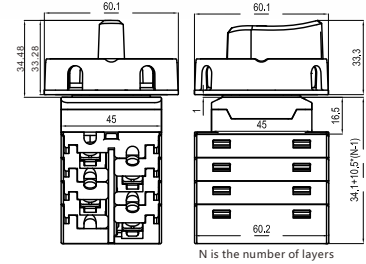


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EDS6PMR

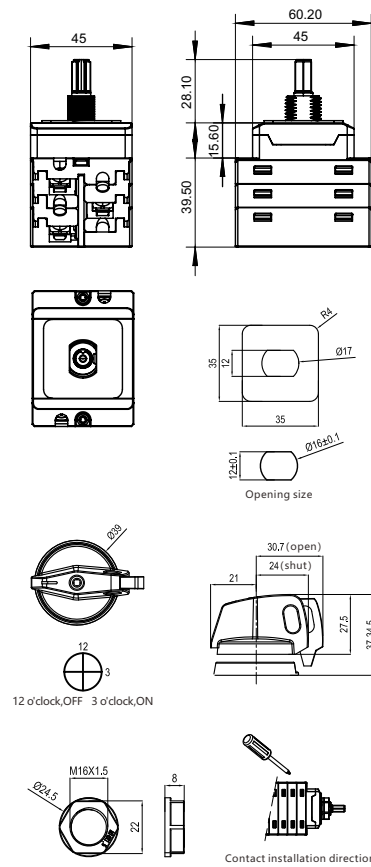
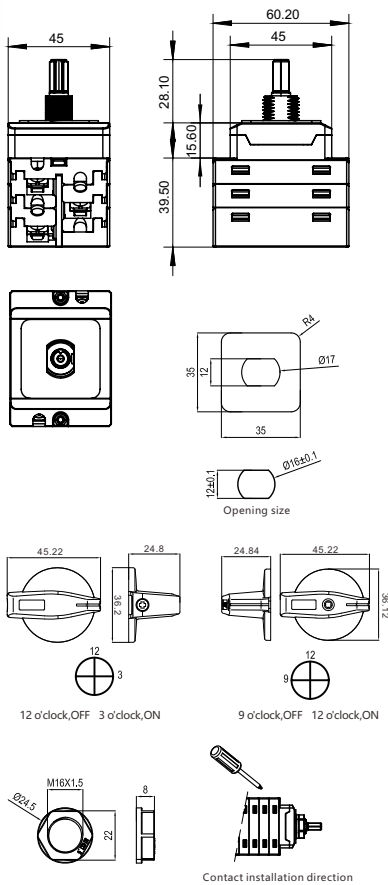


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EDS6HM

EDS6HMR

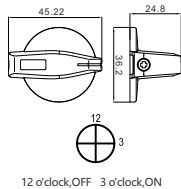




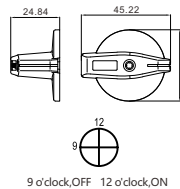
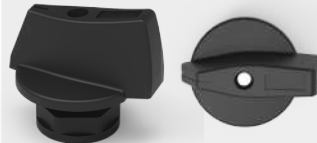
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Knob

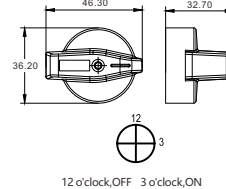
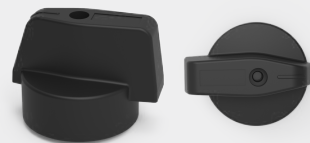
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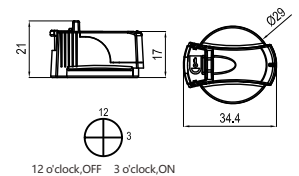
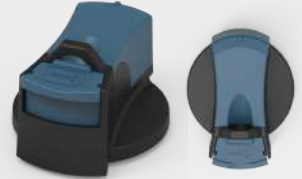
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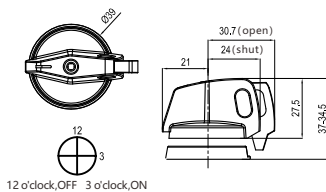
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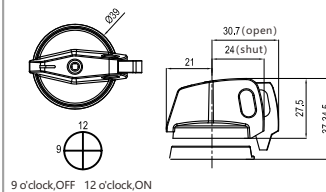
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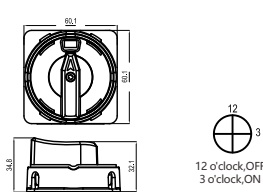
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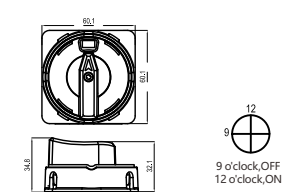
EDS-HMR(9)



EDS-PMR(3)



EDS-PMR(9)

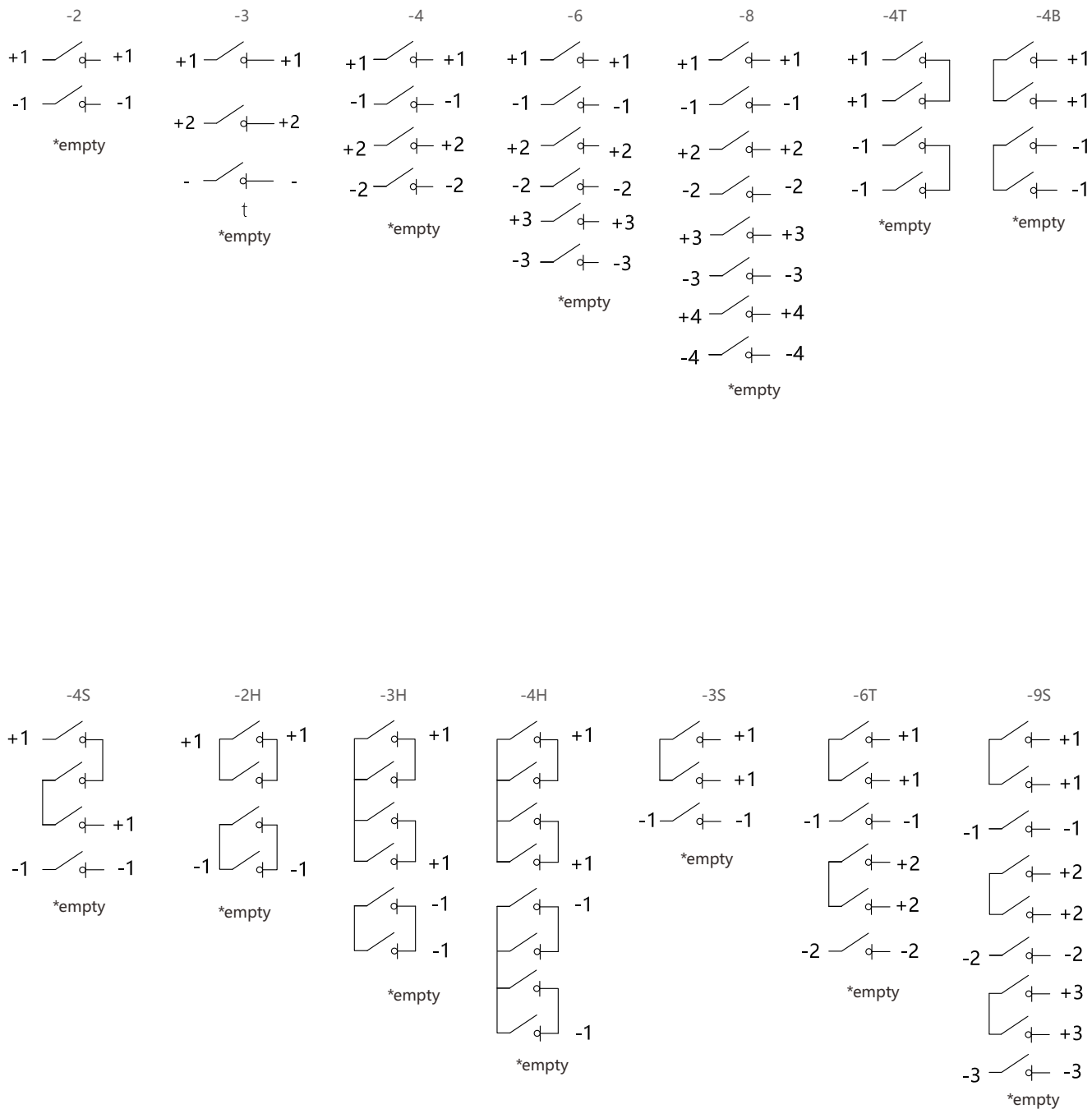


*Note

(3): 12 o'clock, OFF 3 o'clock, ON

(9): 9 o'clock, OFF 12 o'clock, ON

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*Note 5 series have no empty layer, 6 series have empty layer