ENCLOSURE DC ISOLATOR

PEDSC100R/120R-EL32R



Product Features

IP66 BODY

- Screw fixing doesn't interfere with the sealing performance;
- Multiple mechanical seals around the shaft guarantee the reliability of a waterproof and moisture-proof;
- · Stainless steel rotary screw does not rust nor damp;
- Standard cable interface available with seal rings, Internal sealing in top and bottom covers, combined with 2 screws, guarantee an IP66 protection rate;

GOOD THERMAL DISSIPATION

Sufficient space design, with good thermal dissipation, is employed, so that under ambient temperatures -40 °C ~ +70 °C, the product can work without lowering the loads.

FLEXIBLE CABLE END

The isolator is compatible with various cables: M25, M20, M16, and M12, and with optional waterproof cable joints and MC4 joints.

EASY WIRING

Compact space saving and V-type bridge jumper design make wiring easier even after the body fixed. The installer can choose series or parallel connections freely.

SAFE-LOCK

SAFE-LOCK with two rotational positions, reducing the risk of tampering.

APPROVALS

Rated isolation voltage up to 1500V, product carries the most important approvals including TUV, CE(IEC/EN60947-3:2009+A1+A2), SAA(AS 60947.3), DC-PV1 and DC-PV2. etc.

INTEGRATED TRUE DC ISOLATOR

- Parallel wiring and larger aperture guarantee stability and flexibility.
- Ding rail and base type isolator. Dynamic sealing design and world class sealing materials guarantee an IP66 protection rate.
- Compact structure and modular design, levels with different versions from 2 to 8 are available.
- Incorporating a user independent switching action, spring mechanism, to ensure a very fast break/make action, ensuring that
 the disconnection of the load circuits and suppression of the arc
 normally occurs within 3ms.
- Self-cleaning contact mechanism, reducing power loss and abrasion, improving the conduction performance, reducing the resistance and energy loss of the switch, extending the lifecycle.
- Double arc extinguishing mechanism, magnetic and arc chutes, restrain the arc eficiency, especially DC arcs.
- Non-polarity DC Isolator Switch

PEDSC100R/120R-EL32R

Technical data

Data according toIEC/EN60947-3:2009+A1+A2, AS60947.3, Utilization category DC-PV1, DC-PV2

Main Parameters			Туре		EL32R			
Rated insulation voltage	U _i		V		1500			
Rated thermal current	I _{the}				32			
Rated Operation Voltage			V		1200			
Rated Current	I _n		Α	PEDSC100R: 1000	PEDSC100R: 1000V DC in 32A, PEDSC120R:1200V DC in 32A			
Rated impulse withstand volta	ge U _{imp}		V		8000			
Rated short-time withstand cu	-	2, 4	Α		1000			
Maximum cable cross section	s (incl. jumper)							
Solid or standard			mm ²		4-16			
Flexible			mm ²		4-10			
Flexible (+ multicore cable en	d)		mm ²	4-10				
Torque								
Tightening torque terminal sc	rews M4.		Nm		1.2-1.8			
Tightening torque shell mount	ing screws ST4.2(304 stain	less steel)	Nm		1.5-2.0			
Tightening torque knob screw	s M3		Nm		0.5-0.7			
Switching on or off torque			Nm		0.9-1.3			
The wiring torque on base			Nm		1.1-1.4			
Power loss per switch Max								
2			W		2			
4(4S/4B/4T)			W	4				
General parameters								
Method of mounting				Wal	I-mounted or screw installation	on		
Type of knob								
Knob positions					OFF at 9 hr, ON at 12 hr			
Mechanical life				10,000				
Number of DC poles					2 or 4			
Operation temperature °C					-40 to +85			
Storage temperature			°C	-40 to +85				
Pollution degree					2			
Overvoltage category					III			
IP rating of shafting and moun	ting screws				IP66NW			
Types								
Specs	M25 Waterproof Cap	Cable Glar	nd M25	Cable Gland M16	2MC4/H4(Optional)	4MC4/H4(Optional)		
Specs Independent strings	M25 Waterproof Cap 1 or 2	Cable Glar 1 or		Cable Gland M16 1	2MC4/H4(Optional) 1	4MC4/H4(Optional) 2		

PEDSC100R/120R-EL32R

Technical data

Data ad	cording to I	IEC/EN6094	7-3:2009+7	A1+A2, AS60947.3, Utilization category DC-PV1, DC-PV2					2			5.	
30	00V	60	0V	80	Poles in series		No. of strings	Part Number	Contact Configuration				
PV1	PV2	PV1	PV2	PV1	PV2	PV1	PV2	PV1	PV2		stings		g
32	32	32	32	32	16	16	9	/	/	2	1	PEDSC100R-EL32R-2	+1 -1 -1
32	32	32	32	32	16	16	9	13	9	2	1	PEDSC120R-EL32R-2	-1
32	32	32	32	32	16	16	9	/	/	4	2	PEDSC100R-EL32R-4	+1 -1 -1
32	32	32	32	32	16	16	9	13	9	4	2	PEDSC120R-EL32R-4	+2 - d +2 -2 - d -2
32	32	32	32	32	32	32	32	/	/	4	1	PEDSC100R-EL32R-4S	
32	32	32	32	32	32	32	32	32	32	4	1	PEDSC120R-EL32R-4S	
32	32	32	32	32	32	32	32	/	/	4	1	PEDSC100R-EL32R-4B	
32	32	32	32	32	32	32	32	32	32	4	1	PEDSC120R-EL32R-4B	
32	32	32	32	32	32	32	32	/	/	4	1	PEDSC100R-EL32R-4T	
32	32	32	32	32	32	32	32	32	32	4	1	PEDSC120R-EL32R-4T	

Switching Configurations

Туре	2-pole	4-pole	4-pole with Input and Output on top	4-pole with Input and Output bottom	4-pole with Input on top Output bottom
PEDSC100R/120R	2	4	4⊤	4B	4S
Contacts Wiring graph					
Switching example					

Non-polarity DC Isolator Switch

Identificati	Rating data				
Switch, unenclosed — catalogue number (with DC-P	PEDSC100R-EL32-2/4/4T/4B/4S				
Specific dedicated individual enclosure —catalogue r	PEDSC100R-EL32-2/4/4T/4B/4S IP66NW				
Assembly of switch and specific dedicated individual	enclosure— catalogue number	/			
Ith rated thermal current, unenclosed, at 40 $^{\rm C}$ shade	ambient air temperature	32 amps			
Ithe rated thermal current, indoors, at 40 $\rm \acute{C}$ shade and dedicated enclosure	bient air temperature, in a specific		32 amps		
Ithe rated thermal current outdoors at 40 $^\circ\!C$ shade am effects in a specific dedicated enclosure rated IP66NN	•		32 amps		
Ithe solar current value outdoors at 60 $^{\rm C}$ shade ambie in a specific dedicated enclosure rated IP66NW	ent air temperature, with solar effects		29 amps		
Rated Insulation voltage Ui			1500V		
Rated short-time withstand current Icw		lc	ew: 1kA, 1 s		
Rated short-time making capacity Icm			N/A		
Rated conditional short-circuit current Icn			N/A		
Rated Impulse withstand voltage Uimp	8,0 kV				
UV Resistance		Yes			
Mounting Type	Vertically	Vertically or Horizontally			
Pollution degree			3		
Polarity		No polarity, "+" and "-" pol	arities could be interchanged.		
	Ue rated operational voltage DC volts	le; DC-PV2 rated operational current Amps	l(make) and lc(break) DC-PV2 4 x le Amps		
	300V	27	108		
	500V	13	52		
	600V	10	40		
1 pole _1/	800V	5	20		
	1000V	2.5	10		
	1200V	1	/		
	300V	32	128		
	600V	32	128		
	800V	16	64		
2 poles 1/_2/	1000V	9 36			
	1200V	/ /			
	300V	32	128		
	600V	32	128		
4 malaa . 4 . 6 . 6	800V	32	128		
4 poles <u>1/2/3/4</u> /	1000V	32	128		
	1200V	1	1 1		

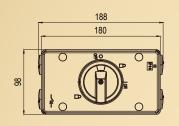
PEDSC120R-EL32R

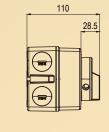
Non-polarity DC Isolator Switch

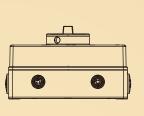
Identificati	Rating data				
Switch, unenclosed — catalogue number (with DC-P	PEDSC120R-EL32-2/4/4T/4B/4S				
Specific dedicated individual enclosurecatalogue n	PEDSC120R-EL32-2/4/4T/4B/4S IP66NW				
Assembly of switch and specific dedicated individual e	enclosure— catalogue number		1		
Ith rated thermal current, unenclosed, at 40 $\rm \widetilde{C}$ shade a	ambient air temperature	32 a	amps		
Ithe rated thermal current, indoors, at 40 $^{\rm C}$ shade amb dedicated enclosure	pient air temperature, in a specific	32 amps			
Ithe rated thermal current outdoors at 40 $\rm C$ shade amb effects in a specific dedicated enclosure rated IP66NV		32 amps			
Ithe solar current value outdoors at 60 $^\circ\!C$ shade ambien in a specific dedicated enclosure rated IP66NW	nt air temperature, with solar effects	29	amps		
Rated Insulation voltage Ui		150	0V		
Rated short-time withstand current Icw		Icw:	1kA, 1 s		
Rated short-time making capacity Icm		Ν	/A		
Rated conditional short-circuit current Icn		N	/A		
Rated Impulse withstand voltage Uimp		8	0 kV		
UV Resistance		Yes			
Mounting Type	Vertically or Horizontally				
Pollution degree	3				
Polarity		No polarity, "+" and "-" polarities could be interchanged.			
	Ue rated operational voltage DC volts	le; DC-PV2 rated operational current Amps	l(make) and lc(break) DC-PV2 4 x le Amps		
	300V	27	108		
	500V	13	52		
	600V	10	40		
1 pole _1	800V	5	20		
	1000V	2.5	10		
	1200V	2	8		
	300V	32	128		
	600V	32	128		
	800V	16	64		
2 poles <u>1/2/</u>	1000V	9	36		
	1200V	9 36			
	300V	32	128		
	600V	32	128		
	800V	32	128		
4 poles <u>1/2/3/4</u> /	1000V	32 128			
	1200V	32	128		

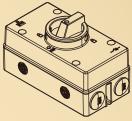
PEDSC100R/120R-EL32R

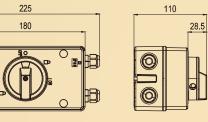
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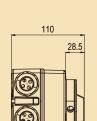




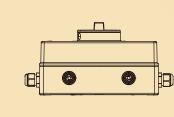




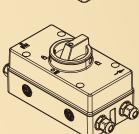


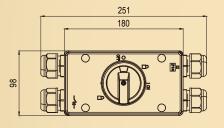


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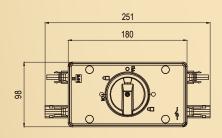


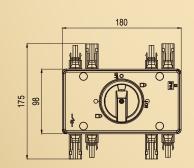
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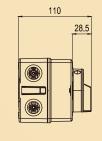


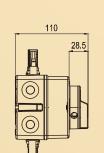


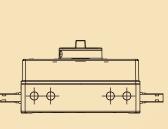
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