



Disconnect Switches for Photovoltaic  
 Insulated enclosures IP66  
 Conforming to IEC 60364-7-712:2002

## DC Disconnect Switches for Photovoltaic

### Technical data:

General	H226	H233	B240	B250	H408
Standards	IEC/EN 60947				
Mechanical lifespan	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>
Max. operating frequency /h	50	50	50	50	50
Climatic resistance	damp heat, constant, to DIN IEC 60068-2-78 damp heat, cyclic, to DIN IEC 60068-2-30				
Ambient temperature enclosed min/max °C	-25/+40				
Mechanical shock resistance g	>25	>25	>25	>25	>25
Utilization Category DC-...	21B	21B	21B	21B	21B

Rated Data	H226	H233	B240	B250	H408
Terminal capacity					
solid or stranded	max mm <sup>2</sup>	10	10	25	25
flexible or multiwire	max mm <sup>2</sup>	6	6	16	16
American Wire Gauge	AWG	8	8	4	4
Thread dimension for terminal screw		M4	M4	M4	M4
Terminal tightening torque	min Nm	1.2	1.2	1.2	1.2
	max Nm	2.5	2.5	2.5	2.5

### Selection chart:

Operational voltage U <sub>e</sub> VDC						Order code number		Enclosure size in mm	Cable entries
250V	450V	500V	600V	650V	800V	Main Switch with N-Padlock device black	Main/Emergency-Off Switch with N-Padlock device yellow/red		
Uninterrupted current I <sub>th</sub> DC-21B									
32A	20A	16A				H226-81400-710N1	H226-81400-710N4	175 × 115 × 100	4 × M20/M25
		20A				H233-81400-710N1	H233-81400-710N4	175 × 115 × 100	4 × M20/M25
	25A					H233-81500-710N1	H233-81500-710N4	175 × 115 × 100	4 × M20/M25
		25A				B250-81500-710N1	B250-81500-710N4	175 × 115 × 100	4 × M20/M25
	32A					B250-81400-710N1	B250-81400-710N4	175 × 115 × 100	4 × M20/M25
			20A	20A		H226-81600-720N1	H226-81600-720N4	175 × 115 × 100	4 × M20/M25
		32A	25A	25A		B240-81600-761N1	B240-81600-761N4	250 × 160 × 120	4 × M25/M32
			32A	32A		B250-81600-761N1	B250-81600-761N4	250 × 160 × 120	4 × M25/M32
			63A	63A		H408-81700-977N1	H408-81700-977N4	320 × 220 × 180	none
					20A	H226-81800-761N1	H226-81800-761N4	250 × 160 × 120	4 × M25/M32
					25A	B240-81800-740N1	B240-81800-740N4	280 × 190 × 130	none
					32A	B250-81800-740N1	B250-81800-740N4	280 × 190 × 130	none
					50A	H408-81800-977N1	H408-81800-977N4	320 × 220 × 180	none

### Switching diagrams:

Rated data for switching diagrams	81400	81500	81600	81700	81800
Max. open circuit voltage V DC	575	575	750	750	920
Insulation voltage V	690	690	1000	1000	1000

## AC Disconnect Switches for Photovoltaic

### Technical data:

General	H220	H226	H233
Standards	IEC/EN 60947		
Mechanical lifespan	>10 <sup>5</sup>	>10 <sup>5</sup>	>10 <sup>5</sup>
Max. operating frequency /h	50	50	50
Climatic resistance	damp heat, constant, to DIN IEC 60068-2-78		
	damp heat, cyclic, to DIN IEC 60068-2-30		
Ambient temperature enclosed min/max °C	-25/+40		
Mechanical shock resistance g	>25	>25	>25

Rated Data	H220	H226	H233
Terminal capacity	max mm <sup>2</sup>	10	10
flexible or multiwire	max mm <sup>2</sup>	6	6
American Wire Gauge AWG	8	8	8
Thread dimension for terminal screw	M4	M4	M4
Terminal tightening torque	min Nm	1.2	1.2

### Selection chart:

Order code number	Current rating AC-21A per contact	Operational power AC-23A 220–240V 1PH	Operational power AC-23A 380–440V 3PH	Enclosure size in mm	Cable entries
H220-41200-700N4	25A	2kW	-	125 × 100 × 85	4 × M20/M25
H220-41200-710N4	25A	2kW	-	175 × 115 × 100	4 × M20/M25
H226-41200-700N4	32A	3kW	-	125 × 100 × 85	4 × M20/M25
H226-41200-710N4	32A	3kW	-	175 × 115 × 100	4 × M20/M25
H233-41200-700N4	40A	4kW	-	125 × 100 × 85	4 × M20/M25
H233-41200-710N4	40A	4kW	-	175 × 115 × 100	4 × M20/M25
H220-41300-700N4	25A	2kW	7.5kW	125 × 100 × 85	4 × M20/M25
H220-41300-710N4	25A	2kW	7.5kW	175 × 115 × 100	4 × M20/M25
H226-41300-700N4	32A	3kW	11kW	125 × 100 × 85	4 × M20/M25
H226-41300-710N4	32A	3kW	11kW	175 × 115 × 100	4 × M20/M25
H233-41300-710N4	40A	4kW	15kW	175 × 115 × 100	4 × M20/M25
H220-41400-700N4	25A	2kW	7.5kW	125 × 100 × 85	4 × M20/M25
H220-41400-710N4	25A	2kW	7.5kW	175 × 115 × 100	4 × M20/M25
H226-41400-700N4	32A	3kW	11kW	125 × 100 × 85	4 × M20/M25
H226-41400-710N4	32A	3kW	11kW	175 × 115 × 100	4 × M20/M25
H233-41400-710N4	40A	4kW	15kW	175 × 115 × 100	4 × M20/M25

### Switching diagrams:

<p><b>2 pole</b> without auxiliary contacts</p>	<p><b>3 pole</b> without auxiliary contacts</p>	<p><b>4 pole</b> without auxiliary contacts neutral contact early make/late break</p>
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