

DC Moulded Case Circuit Breaker

EM3DP-U PV DC Moulded Case Circuit Breaker

Leading Manufacturer Protects Solar Power Safety

Rev1.0 2022/02/11



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Product Application



small volume



Overload protection



Flame retardant material



Breaking height



Short circuit protection



Flying Fox Short



Complete accessories



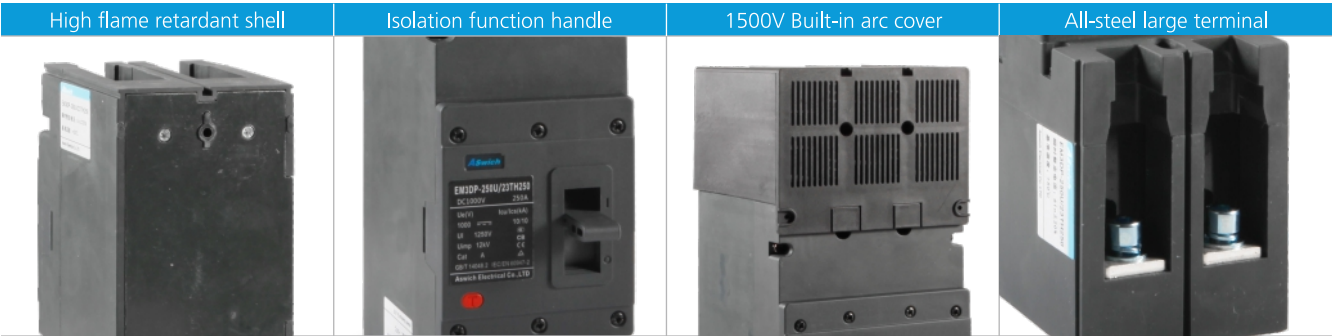
Multiple wiring

Select Code

E M3 DP - □ / □ - □ □
1 2 3 4 5 6 7

Code	Name	Description
1	ASwich brand	E
2	M3	M3
3	DC Molded case circuit breaker for photovoltaic	DP
4	Frame Current	250U 320U 400U
5	Rated current See Table 1 for details	125. 140. 160. 180. 200. 225. 250. 280. 315. 320 315. 350. 400
6	Poles	2:2P 3:3P 4:4P
7	Tripping	3:Electromagnetic tripping + thermal tripping

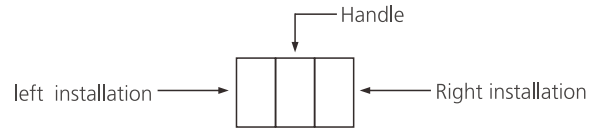
Appearance Introduction



EM3DP-U PV DC Moulded Case Circuit Breaker

Technical Data

- Shunt release
- Alarm contact
- Lead direction
- Auxiliary contact



Model number			EM3DP-250U			EM3DP-400U
Code	Accessory name	Number of poles	2	3	4	4
200,300	No internal accessories		—	—	—	—
208,308	Alarm contact		← □	← □ □	← □ □	← □ □
210,310	Shunt release		← ●	← ● □ □	← ● □ □	← ● □ □
220,320	Auxiliary contact (1NO1NC)		← ■	← ■ □ □	← ■ □ □	—
	Auxiliary contact (2NO2NC)		—	—	—	← ■ □ □
202,302	Auxiliary contact (2NO2NC)		← ■	—	—	—
240,340	Shunt release, auxiliary contact (1NO1NC)		—	← ● ■ □	← ● ■ □	—
	Shunt release, auxiliary contact (2NO2NC)		—	—	—	← ● ■ □
212,312	Shunt release, auxiliary contact (2NO2NC)		—	← ● ■ □	—	—
260,360	Two sets of auxiliary contacts (2NO2NC)		—	← ■ □ □	← ■ □ □	—
	Two sets of auxiliary contacts (4NO4NC)		—	—	—	← ■ □ □
218,318	Shunt release, alarm contact		—	← ● □ □	← □ ● □	← □ ● □
228,328	Auxiliary contact (1NO1NC), alarm contact		—	← ■ □ □	← ■ □ □	← ■ □ □
248,348	Shunt release, alarm contact, auxiliary contact (1NO1NC)		—	← ● □ □	← □ ● □	← □ ● □
268,368	Two sets of auxiliary contacts (2NO2NC), alarm contacts		—	← ■ □ □	← ■ □ □	—
	Two sets of auxiliary contacts (3NO3NC), alarm contacts		—	—	—	← ■ □ □

When the shunt and the alarm are installed at the same time, the DC24V shunt cannot be installed at this time, and only AC220V or AC400V shunt can be installed.

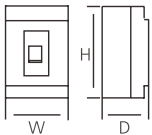
DC MOULDED CASE CIRCUIT BREAKER

EM3DP-U PV DC Moulded Case Circuit Breaker

EM3DP-U series of DC plastic case circuit breakers for photovoltaics—parameters

Table I									
IEC60947-2 GB14048.2									
Electrical performance									
Frame rating rated current Inm (A)	250			320			400		
Rated currentIn (A)	125.140.160.180. 200.225.250			280.315.320			315.350.400		
Number of poles	2	3	3	2	3	3	4		
Rated Operating Voltage Ue (V) DC	1000	1250	1500	1000	1250	1500	1000	1250	1500
Rated insulation voltage Ui (V)	1000	1500	1500	1000	1500	1500	1500		
Rated impact withstand voltage Uimp (kV)	12								
Set display short-circuit breaking Icu (kA)	20								
Operating short-circuit breaking capacity Ics (kA)	20								
Connection method	Up in down out			Up in down out			Down in up out		
Mechanical life (total cycles)	10000								
Electrical life (total cycles)	2000								
Total breaking time (ms)	20								
Whether it has isolation characteristics	Yes								
Allowable ambient temperature	-40~+70℃								
Protection class	IP20								
Quality Certification	CCC . CE . CB . TUV								
Accessories available	Auxiliary. Alarm. Split excitation. Manual operation. Electric operation								
Arcing distance (mm)	≥50 (Zero flashover after flashover cover)								
Instantaneous action value	10 In								
Installation method	Fixed and plug-in								

Dimensions



Number of poles	2P	4P	3P	4P	4P
W	75	133	140	198	240
H	190	200	190	257	270
D	108	109	109	108	120