

3.3

Noark New Energy Solutions Low Voltage Components

DC MCCB

Ex9MDHV DC1500V MCCB



Frame current: 400A, 630A
 Rated voltage: DC1500V
 Rated current: 250A, 315A, 350A, 350A, 400A
 Breaking capacity I_{cu}(kA) : 15kA
 IP Grade: IP20
 With isolation: YES
 standards: IEC/EN60947-2, GB/T14048.2
 Certification: CE, CCC, CB

Higher voltage

Ex9M3HVF 1500V photovoltaic special DC moulded case circuit breaker, suitable for overload and short circuit protection in DC distribution circuits with rated working voltage of DC 1500V and rated working current 250A to 630A

Narrower width

The compact width can effectively save installation space. The width of 2P is only 98mm, with beautiful appearance and reasonable layout. It can be installed vertically or horizontally without derating.

Easier to use

The whole series of accessories are modular design, which can be quickly loaded and unloaded on site, which is convenient for loading and unloading without affecting use of product.

Selection guide

Ex9M	D	3	HV	F	TM	630	2P
Product code	MCCB type	Frame	High voltage	Breaking capacity	Trip unit	Rated current	Poles
Ex9M:MCCB	D: DC MCCB	3: 400/630A Frame	HV:DC1500V	F:15kA	TM: Thermomagnetic	250/315/250 400/500/630A	2P:2 poles

Temperature compensation

Current	-40°C	-30°C	-20°C	-10°C	0°C	10°C	20°C	30°C	40°C	50°C	60°C	70°C
250A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.95In	0.9In	0.85In
315A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.95In	0.9In	0.86In
350A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.95In	0.94In	0.79In
400A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.98In	0.93In	0.8In
500A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.98In	0.92In	0.8In
630A	1.4In	1.35In	1.3In	1.25In	1.2In	1.15In	1.1In	1.05In	1In	0.92In	0.84In	0.78In

Derating table

Altitude(m)	2000m	3000m	4000m
Rated current I _n (A)	1×I _n	0.97×I _n	0.93×I _n
Rated voltage U _e (V)DC	1×U _e	0.9×U _e	0.8×U _e
Rated impulse withstand voltage U _{imp} (kV)	12	10	8
Dielectric properties (V) DC	3820	3500	3100

3.3

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Parameters Table

Model	Ex9MD3HVF	Ex9MD3HVF
standards	IEC/EN 60947-2	IEC/EN 60947-2
Frame (A)	400	630
Poles	2P	2P
U _i (V)	1500	1500
U _{imp} (kV)	12	12
U _e (V)	DC1500	DC1500
I _n (A) @40°C	250A,315A,350A,400A	500A,630A
I _{cu} (kA)	15	15
I _{cs} (kA)	15	15
Isolation	yes	yes
Category	A	A
life	Mechanical life (times)	7000
	Electrical life (times)	1000
Release type	TM (non-adjustable)	TM (non-adjustable)
Protection function	I _r	1In
	I _i	10In
Pollution degree	III	III
Elevational	2000 meters without derating (derating below 4000 meters)	
ambient temperature	-40°C ~+70°C	-40°C ~+70°C
	W*mm(W)	98mm
	H*mm(H)	275mm
	D*mm(D)	133mm
Certificate	CE, CCC	CE, CCC

Wiring Diagrams and Dimensions

