DC MCCBs Ex9MV2S-PV



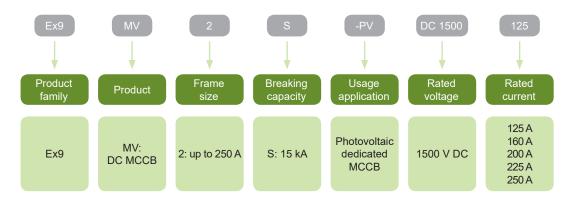
- DC Moulded Case Circuit Breakers
- Frame size M2
- Rated current up to 250 A
- Rated ultimate short circuit breaking capacity I_{cu} = 15 kA, I_{cs} = 100 % I_{cu}
- Rated voltage 1500 V DC
- Thermomagnetic releases
- Fixed version

DC Moulded Case Circuit Breakers Ex9MV2S-PV are intended mainly for photovoltaic applications. Testing according to IEC / EN 60947-2 standards ensures functions and reliability for wide variety of applications including isolation.

These breakers are offered with breaking capacity of 15 kA. Rated impulse withstand voltage U_{imp} 12 kV makes it possible to use them even in systems with occurrences of transient overvoltage waves of high intensity

Utilization category A.

Type Key



Certification marks





DC MCCBs Ex9MV2S-PV

- DC Moulded Case Circuit Breakers
 I_{cs} = I_{cu} = 15 kA at 1500 V DC
 Fixed version

- Instantaneous release I_i = I_n x10
 Mounting screws and phase barriers in the scope of delivery



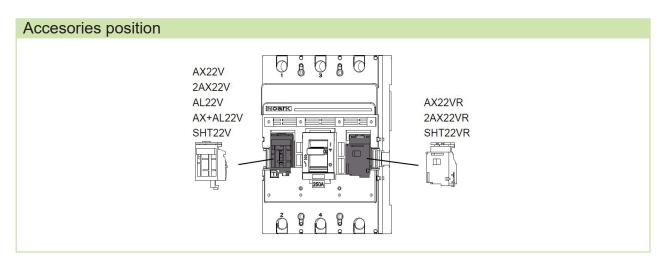
Rated current I _n	Article No.	Туре	Packing
125 A	110194	Ex9MV2S-PV/DC1500 125	1/8
160 A	110195	Ex9MV2S-PV/DC1500 160	1/8
200 A	110196	Ex9MV2S-PV/DC1500 200	1/8
225 A	110197	Ex9MV2S-PV/DC1500 225	1/8
250 A	110198	Ex9MV2S-PV/DC1500 250	1/8



Technical Data Ex9MV2S

DC Moulded Case Circuit Breakers up to 250A

General parameters					
Suitable for photovoltaics application					
Internal accessories					
Left auxiliary contact unit	AX22V	110199			
	2AX22V	110200			
Right auxiliary contact unit	AX22VR	110206			
	2AX22VR	110207			
Left alarm contact unit	AL22V	110201			
Left auxiliary + alarm contact unit	AX+AL22V	110202			
Right shunt trip releases	SHT22VR	110208-110210			
Max. number of installed internal accessories is 4 pcs of AX22, 1 pc of AL22 and 1 pc of a release SHT22					
External accessories					
Extended rotary handle	ERH1	110211			
Mounting screws as well as phase barriers in the scope of delivery					

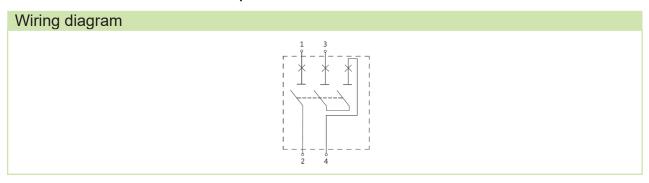


Electrical parameters			
Tested according to	IEC/EN 60947-2		
Rated op. voltage U _e	1500 V DC		
Rated insulation voltage U _i	1500 V		
Rated impulse withstand voltage U _{imp}	12 kV		
Rated ultimate short-circuit breaking capacity (DC1500V, 2 poles in serie) (I _{cu})	15 kA		
Rated service short-circuit breaking capacity DC1500V, (2 poles in serie) (I _{cs})	15 kA		
Rated current	125 A, 160 A, 200 A, 225 A, 250 A		
Utilization category	А		
Mechanical service life	10 000 operation cycles		
Electrical service life	2 000 operation cycles		
Maximum frequency of switch. cycles	120 cycles per hour		
Total disconnection time at short circuit	< 40 ms		
Power loss per pole	max 32 W		

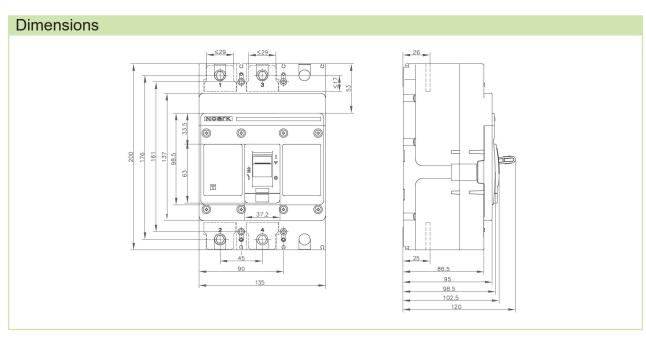


Technical Data Ex9MV2S

DC Moulded Case Circuit Breakers up to 250 A



Mechanical parameters						
Device width		135 mm				
Device height	200 mm					
Device depth	103 mm					
Mounting		onto panel				
Degree of protection	IP20					
Terminals	M10 screws					
Busbar thickness	≤ 4 mm					
Busbar width		≤ 29 mm				
Cable lug width		≤ 50 mm				
Fastening torque of terminals	25 Nm					
Ambient temperature	-40 — +70 °C					
Altitude	2000 m	3000 m	4000 m	5000 m		
Rated operational current I _n	1x I _n	0.97x I _n	0.93x I _n	0.89x I _n		
Rated operational voltage U _e	1500 V DC	1350 V DC	1200 V DC	1050 V DC		
Rated insulation voltage U _i	1500 V	1500 V	1500 V	1500 V		
Dielectric properties	3110 V DC	2890 V DC	2700 V DC	2500 V DC		
Relative humidity	≤ 50 % at 40 °C, ≤ 90 % at 20 °C					
Pollution degree	3					
Weight	3.3 kg					
Mounting position		vertical, can be rotated by 90° in each axis				





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DC Moulded Case Circuit Breakers up to 250 A

