



Product Service

CERTIFICATE

No. B 087707 0019 Rev. 00

Holder of Certificate: **BREMAS ERSCE S.P.A**
VIA CASTELLAZZO 9
20040 CAMBIAGO (MI) MI
ITALY

Certification Mark:



Product: **Cutout switches**
(Switch Disconnecter in DC/AC for photovoltaic applications)

The product was tested on a voluntary basis and complies with the essential requirements. The certification mark shown above can be affixed on the product. It is not permitted to alter the certification mark in any way. In addition, the certification holder must not transfer the certificate to third parties. This certificate is valid until the listed date, unless it is cancelled earlier. All applicable requirements of the testing and certification regulations of TÜV SÜD Group have to be complied. For details see: www.tuvsud.com/ps-cert

Test report no.: ELS2000171A

Valid until: 2027-10-23

Date, 2022-10-27

(Massimo Mendo)



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Model(s): DP, DK, DM, DX Series

Brand Name: BREMAS

Parameters:

Rated Operational voltage (Ue):	See tables below
Kind of current:	DC - AC
Rated Operational current (Ie):	See tables below
Rated insulation voltage (Ui):	1500 VDC / 690 VAC
Rated impulse voltage (Uimp):	8 kV
Number Layer/Input:	See tables below
Max Nr. poles (Floating/Grounded):	See tables below
Conventional free air thermal current (Ith):	63 A
Conventional enclosed thermal current (Ithe):	63 A
Rated conditional short circuit current:	5 kA at 1000 VDC / 5 kA at 690 VAC (for DP and DK Series) 5 kA at 1200 VDC (for DK and DM Series) 5 kA at 1500 VDC (for DX Series)
Rated short-time withstand current (1s) [Icw]:	780 A
Rated short-circuit making capacity [Icm]:	1,4 kA
Degree of protection:	IP20 or IP66(1) or IP67(2)
For use in ambient temperature:	-40°C to +85°C
Climatic Classification:	CC2 - humid and cold atmosphere
Utilization Category:	DC-21B, DC-23A, DC-23B, DC-PV1, DC-PV2; AC-21B 690V 63A (3P or 3P+N)

Remark:

- (1) mounted in enclosure with panel mounting type M16 and handle type: MV4, MV6, RN0; with 2 or 4 screws plate and handle type RV4-RW4, RV6-RW6, RL6-RK6.
(2) mounted in enclosure with panel mounting type M16

The suffix E in the models means that the switching mechanism is the new one with smaller dimensions than the models without E in the code

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Utilization Category: DC-21B				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DP06012 or DP06012E	600	12	2	12
DP06016 or DP06016E	600	16	2	12
DP06025 or DP06025E	600	25	2	12
DP06032 or DP06032E	600	32	2	12
DP06040 or DP06040E	600	40	3	8
DP06050 or DP06050E	600	50	3	8
DP06550 or DP06550E	650	50	3	8
DP07512 or DP07512E	750	12	2	12
DP07516 or DP07516E	750	16	2	12
DP07525 or DP07525E	750	25	2	12
DP07532 or DP07532E	750	32	3	8
DP07540 or DP07540E	750	40	3	8
DP07550 or DP07550E	750	50	4	6
DP08512 or DP08512E	850	12	2	12
DP08516 or DP08516E	850	16	3	8
DP08525 or DP08525E	850	25	3	8
DP08532 or DP08532E	850	32	3	8
DP08540 or DP08540E	850	40	3	8
DP08550 or DP08550E	850	50	4	6
DP10012 or DP10012E	1000	12	2	12
DP10016 or DP10016E	1000	16	3	8
DP10016 or DP10016E	1100	10	2	12
DP10016 or DP10016E	1000	16	2	12
DP10016 or DP10016E	750	32	2	12
DP10016 or DP10016E	500	50	2	12
DP10025 or DP10025E	1000	25	3	8
DP10032 or DP10032E	1000	32	3	8
DP10040 or DP10040E	1000	40	4	6
DP10050 or DP10050E	1000	50	4	6

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Utilization Category: DC-21B				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DK05013 or DK05013E	500	13	1	12
DK05050 or DK05050E	500	50	2	12
DK06012 or DK06012E	600	12	2	12
DK06016 or DK06016E	600	16	2	12
DK06025 or DK06025E	600	25	2	12
DK06032 or DK06032E	600	32	2	12
DK06040 or DK06040E	600	40	3	8
DK06050 or DK06050E	600	50	3	8
DK06550 or DK06550E	650	50	3	8
DK07512 or DK07512E	750	12	2	12
DK07516 or DK07516E	750	16	2	12
DK07525 or DK07525E	750	25	2	12
DK07532 or DK07532E	750	32	2	12
DK07550 or DK07550E	750	50	4	6
DK08512 or DK08512E	850	12	2	12
DK08516 or DK08516E	850	16	2	12
DK08525 or DK08525E	850	25	3	8
DK08532 or DK08532E	850	32	3	8
DK08540 or DK08540E	850	40	3	8
DK08550 or DK08550E	850	50	4	6
DK10012 or DK10012E	1000	12	2	12
DK10016(*) or DK10016E (*)	1000	16	2	12
DK10025(**) or DK10025E(**)	1000	25	3	8
DK10032(**) or DK10032E(**)	1000	32	3	8
DK10040(**) or DK10040E(**)	1000	40	3	8
DK10050(***) or DK10050E(***)	1000	50	4	6
DK10063(***) or DK10063E(***)	1000	63	4	6

(*) Model DK10016-3 poles: 2 positive input of 8A at 1000V and negative in common; 1 layer for positive input and 1 layer for negative input also rated 1200VDC/8A.

(**) 2 layer in series for positive input and 1 layer for negative input also rated 1200VDC/8A.

(***) 3 layer in series for positive input and 1 layer for negative input also rated 1200VDC/8A.

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Utilization Category: DC-21B				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DM06012 or DM06012E	600	12	2	12
DM06016 or DM06016E	600	16	2	12
DM06025 or DM06025E	600	25	2	12
DM06032 or DM06032E	600	32	2	12
DM06040 or DM06040E	600	40	2	12
DM07012 or DM07012E	700	12	2	12
DM07016 or DM07016E	700	16	2	12
DM07025 or DM07025E	700	25	2	12
DM07032 or DM07032E	700	32	2	12
DM07040 or DM07040E	700	40	2	12
DM08512 or DM08512E	850	12	2	12
DM08516 or DM08516E	850	16	2	12
DM10012 or DM10012E	1000	12	2	12
DM10016(*) or DM10016E(*)	1000	16	2	12
DM10020(*) or DM10020E(*)	1000	20	2	12

(*) Model DM10016-3 : 2 positive input of 8A at 1000V and negative in common;

(*) Model DM10020-3 poles : 2 positive input of 10A at 1000V and negative in common

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Utilization Category: DC-21B				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DX10050 or DX10050E	1000	50	2	12
DX12030 or DX12030E	1200	30	2	12
DX15012 or DX15012E	1500	12	2	12
DX15016 or DX15016E	1500	16	2	12
DX15025 or DX15025E	1500	25	2	12
DX15030 or DX15030E	1500	30	2	12

Utilization Category: DC-PV2				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DX15016__2 or DX15016__2E	1500	16	2	12
DX15016__2 or DX15016__2E	1200	20	2	12
DX15016__2 or DX15016__2E	1000	30	2	12
DX15016__2 or DX15016__2E	800	35	2	12
DX15016__2 or DX15016__2E	700	45	2	12
DX15016__2 (*) or DX15016__2E(*)	1500	30	3	8
DX15016__2 (*) or DX15016__2E(*)	1000	50	3	8
DX15016__2 (*) or DX15016__2E(*)	800	55	3	8
DX15016__2 (*) or DX15016__2E(*)	700	63	3	8

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

(*) 2 layer in series for positive input and 1 layer for negative input

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Utilization Category: DC-PV2				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DM10016 __ 2 or DM10016 __ 2E	1500	2	2	12
DM10016 __ 2 or DM10016 __ 2E	1100	10	2	12
DM10016 __ 2 or DM10016 __ 2E	1000	16	2	12
DM10016 __ 2 or DM10016 __ 2E	750	25	2	12
DM10016 __ 2 or DM10016 __ 2E	700	30	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

Utilization Category: DC-PV2				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DX15030 or DX15030E	1500	12	2	12
DX15030 or DX15030E	1200	16	2	12
DX15030 or DX15030E	1000	20	2	12
DX15030 or DX15030E	800	30	2	12
DX15030 or DX15030E	700	40	2	12
DX12030 or DX12030E	1500	8	2	12
DX12030 or DX12030E	1200	10	2	12
DX12030 or DX12030E	1000	16	2	12
DX12030 or DX12030E	800	20	2	12
DX12030 or DX12030E	700	30	2	12
DM10020 or DM10020E	1100	5	2	12
DM10020 or DM10020E	1000	10	2	12
DM10020 or DM10020E	750	18	2	12
DM10020 or DM10020E	700	20	2	12
DK10016 or DK10016E	1000	6	2	12
DK10016 or DK10016E	750	12	2	12
DK10016 or DK10016E	700	16	2	12
DP10012 or DP10012E	1000	4	2	12
DP10012 or DP10012E	750	10	2	12
DP10012 or DP10012E	700	12	2	12
DP10012 or DP10012E	600	16	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

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Utilization Category: DC-PV2				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DM10020 __ X or DM10020 __ XE	1100	16	2	12
DM10020 __ X or DM10020 __ XE	1000	20	2	12
DM10020 __ X or DM10020 __ XE	800	30	2	12
DM10020 __ X or DM10020 __ XE	700	40	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

Utilization Category: DC-PV2				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DK10016 __ X or DK10016 __ XE	1100	12	2	12
DK10016 __ X or DK10016 __ XE	1000	16	2	12
DK10016 __ X or DK10016 __ XE	800	20	2	12
DK10016 __ X or DK10016 __ XE	750	30	2	12
DK10016 __ X or DK10016 __ XE	700	35	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

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Utilization Category: DC-PV1				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DX15030 or DX15030E	1500	30	2	12
DX15030 or DX15030E	1000	50	2	12
DX12030 or DX12030E	1500	15	2	12
DX12030 or DX12030E	1300	25	2	12
DX12030 or DX12030E	1200	30	2	12
DX12030 or DX12030E	1000	40	2	12
DX12030 or DX12030E	800	50	2	12
DM10020 or DM10020E	1500	5	2	12
DM10020 or DM10020E	1200	8	2	12
DM10020 or DM10020E	1100	12	2	12
DM10020 or DM10020E	1000	20	2	12
DM10020 or DM10020E	750	32	2	12
DM10020 or DM10020E	700	40	2	12
DM10020 or DM10020E	500	50	2	12
DK10016 or DK10016E	1200	8	2	12
DK10016 or DK10016E	1000	16	2	12
DK10016 or DK10016E	750	32	2	12
DK10016 or DK10016E	500	50	2	12
DP10012 or DP10012E	1000	12	2	12
DP10012 or DP10012E	750	25	2	12
DP10012 or DP10012E	600	32	2	12
DP10016 or DP10016E	1100	10	2	12
DP10016 or DP10016E	1000	16	2	12
DP10016 or DP10016E	750	32	2	12
DP10016 or DP10016E	500	50	2	12
DP06016 or DP06016E	600	16	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.

Utilization Category: DC-PV1				
Models	Ue (V)	Ie (A)	N° Layer / inputs	Max n° poles
DM10020 __ X or DM10020 __ XE	1000	50	2	12
DK10016 __ X or DK10016 __ XE	1000	40	2	12
DK10016 __ X or DK10016 __ XE	800	50	2	12

for all the models when two negative poles are combined in only one negative pole maximal allowable current has to be split by 2.



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Tested according to: EN IEC 60947-1:2021
EN IEC 60947-3:2021