



SOLAR INDUSTRY

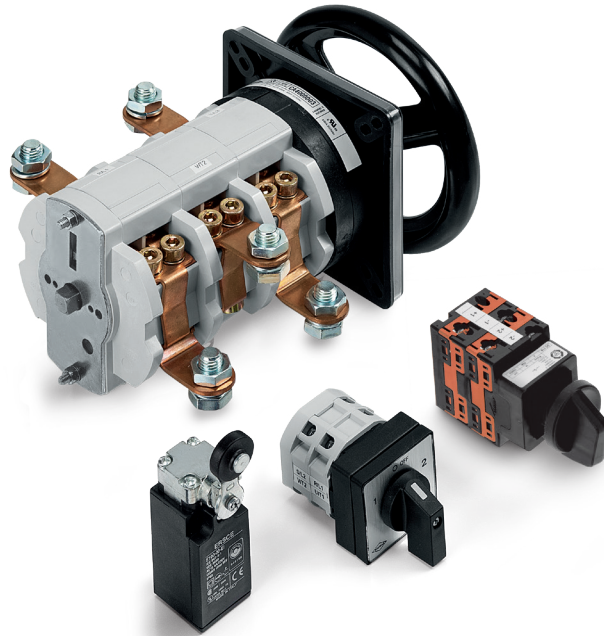
DC SWITCH DISCONNECTORS
DP-DK-DM-DX SERIES



BETTER SWITCHES



BREMAS
BETTER SWITCHES



Quality makes our products great

With over 50 years of experience we are specialist in the manufacturing of cam switches, disconnect switches, position and safety switches, power tools switches, relay sockets and push buttons.

We design and build extremely reliable and efficient products: our company is managed in full accordance with UNI EN ISO 9001 and all our products are verified in our laboratory under the most stringent standards to guarantee performance, durability and safety.

We have a state of the art R&D department committed to develop new, better products. We have gained a wide experience in designing custom products for different industrial sectors: our technicians constantly interact with customers to develop solutions which can offer significant added value.



Up to 50A at 1000VDC

Up to 20A at 1500VDC

With only 48 mm of total depth

- Rated current: 50A
- Rated insulation voltage: 1500V
- PV1 and PV2 tested
- Terminal protection degree IP20
- Different mounting possibilities
- IP66 and IP67
- Padlockable handles and knobs

DP-DK-DM-DX Series

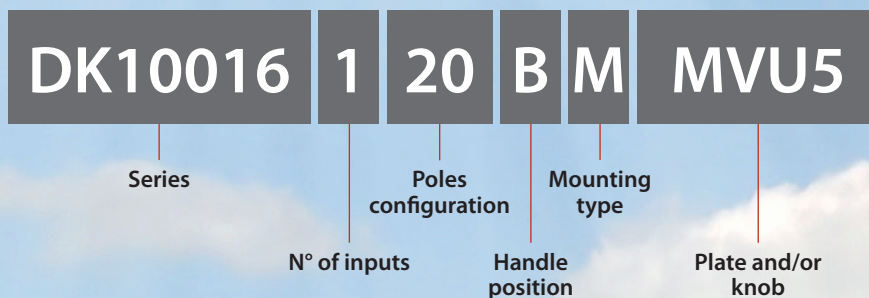
■ Highest standards of quality

Bremas disconnect switches range is designed for safety operations even under load. **DP-DK-DM-DX** disconnect switches series has been specifically designed for DC applications in the solar industry.

In only one sizes are available current rating from 12 to 50 amp up to 1000 Vdc and from 10 to 20 amp at 1500 Vdc.

Thanks to its mechanical and electrical characteristics the **DP-DK-DM-DX** achieves top performances and the highest standards of quality and operational reliability.

Code structure



A complete range for DC applications

■ Dimensions

The DP-DK-DM-DX series has the most compact dimensions and the highest switching power on the market. Capable of breaking 50 amp and 1.000 Vdc with only 48 mm (1,88") of total depth or 20 amp at 1.500 Vdc, DP-DK-DM-DX is the most complete and versatile range of disconnect switches for the solar industry.

■ Worldwide installations

Certified according to the European standard IEC EN 60947 (TÜV) and the Chinese regulations (CCC).



■ Best powerful contact system

Reduced the time of the electric arc and better guarantees its extinction.

■ Selected materials

The materials we employ have been carefully studied: the contacts are built with an exclusive alloy specifically made. The plastic components are made with V0 materials, the highest self-extinguishing degree. The handles are made with UV rays resistant materials.

■ Designed for the inverters of the next generation

Thanks to the modular construction, can manage up to 6 DC inputs/MPPT and up to 12 DC/AC poles.



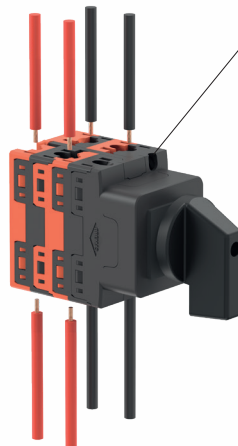
■ Patented solution

Easy identification to positive (+) and negative (-) inputs

RED for Positive inputs/outputs.
BLACK for Negative inputs/outputs.

Connection and easy wiring

The patented contacts solution permits to connect both the input and output cables in a linear way. The connecting terminals assure a trouble-free use of the screwdriver both in case of panel and base mounting. Designed for an optimal space exploitation: wires do not interfere with each other even in case of mounting adjacent to walls or other devices.



Technical data IEC EN 60947-3*

			DP 100 12	DK 100 16	DM 100 20			
Rated insulation voltage	Ui	V	1500	1500	1500			
Rated impulse withstand voltage	Uimp	kV	8	8	8			
Rated thermal current	Ith	A	50	50	50			
Power loss per layer at 20/50A		W	0,2 / 1,25	0,2 / 1,25	0,2 / 1,25			
DC inputs								
Utilization category			DC21B-PV1	PV2	DC21B-PV1	PV2	DC21B-PV1	PV2
Rated operational current at 1500 V	Ie	A	-	-	-	-	-	-
Rated operational current at 1300 V	Ie	A	-	-	-	-	-	-
Rated operational current at 1250 V	Ie	A	-	-	-	-	-	-
Rated operational current at 1200 V	Ie	A	-	-	8	-	-	-
Rated operational current at 1100 V	Ie	A	-	-	-	-	12	5
Rated operational current at 1000 V	Ie	A	12	4	16	6	20	10
Rated operational current at 800 V	Ie	A	-	-	-	-	-	-
Rated operational current at 750 V	Ie	A	25	10	32	12	32	18
Rated operational current at 700 V	Ie	A	-	-	-	16	40	20
Rated operational current at 600 V	Ie	A	32	16	-	-	-	-
Rated operational current at 500 V	Ie	A	-	-	50	-	50	-
Short circuit protection								
Rated conditional short-circuit current		kA	5		5		5	
Max fuse size for short circuit protection	gPV	A	50		50		50	
Rated short-time withstand current (1s)	Icw	A	780		780		780	
Rated short-circuit making capacity	Icm	kA	1,4		1,4		1,4	
AC inputs								
Rated insulation voltage	Ui	V	-	-	690	-	-	
Rated impulse withstand voltage	Uimp	kV	-	-	8	-	-	
Rated thermal current	Ith	A	-	-	63	-	-	
Utilization category			-	-	AC21-B	-	-	
Rated operational current	Ie	690V	-	-	63	-	-	
Mechanical characteristics								
Terminal capacity with solid wires	Max	mm ²	2x6		2x6		2x6	
		AWG	10		10		10	
Terminal capacity with fork terminals 10 mm ²	Max	mm ²	1x10		1x10		1x10	
		AWG	8		8		8	
Terminal capacity with fork terminals 16 mm ²	Max	mm ²	1x16		1x16		1x16	
		AWG	6		6		6	
Terminal screw			M4		M4		M4	
Screw tightening torque		Nm	1,7 ±10%		1,7 ±10%		1,7 ±10%	
		lb.in	12 ±10%		12 ±10%		12 ±10%	
Protection degree IEC 529 EN 60529								
Terminals			IP20		IP20		IP20	
Ambient conditions								
Pollution degree			2		2		2	
Operational ambient temperature		°C	-40°C ÷ +70°C		-40°C ÷ +70°C		-40°C ÷ +70°C	
Storage ambient temperature		°C	-40°C ÷ +85°C		-40°C ÷ +85°C		-40°C ÷ +85°C	
Damp heat test IEC60068-2-30			90-100% RH at +55 °C		90-100% RH at +55 °C		90-100% RH at +55 °C	

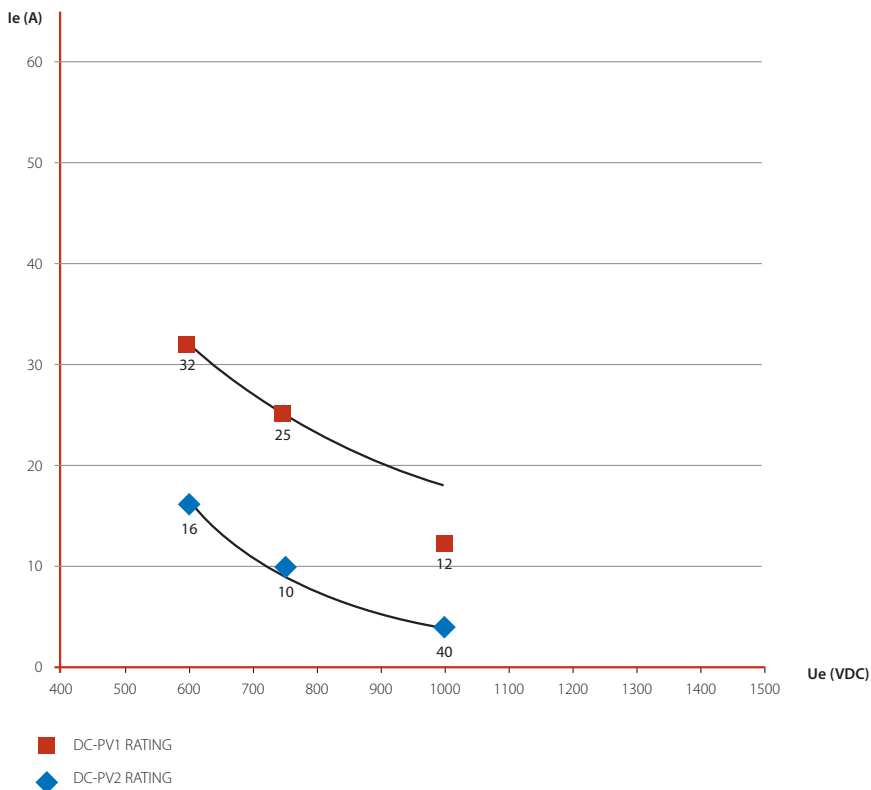
* TUV certified

			DX 120 30	DX 120 30 ADVANCED	DX 150 30			
Rated insulation voltage	Ui	V	1500	1500	1500			
Rated impulse withstand voltage	Uimp	kV	8	8	8			
Rated thermal current	Ith	A	50	50	50			
Power loss per layer at 20/50A		W	0,2 / 1,25	0,2 / 1,25	0,2 / 1,25			
DC inputs								
Utilization category			DC21B-PV1	PV2	DC21B-PV1	PV2	DC21B-PV1	PV2
Rated operational current at 1500 V	Ie	A	10	5	15	6	20	8
Rated operational current at 1300 V	Ie	A	-	-	-	-	25	10
Rated operational current at 1250 V	Ie	A	20	8	25	10	30	12
Rated operational current at 1200 V	Ie	A	-	-	-	-	-	-
Rated operational current at 1100 V	Ie	A	-	-	30	12	-	-
Rated operational current at 1000 V	Ie	A	30	12	40	16	50	20
Rated operational current at 800 V	Ie	A	45	17	50	20	-	30
Rated operational current at 750 V	Ie	A	-	-	-	-	-	-
Rated operational current at 700 V	Ie	A	-	25	-	30	-	40
Rated operational current at 600 V	Ie	A	-	-	-	-	-	-
Rated operational current at 500 V	Ie	A	-	-	-	-	-	-
Short circuit protection								
Rated conditional short-circuit current		kA	5		5		5	
Max fuse size for short circuit protection	gPV	A	50		50		50	
Rated short-time withstand current (1s)	Icw	A	780		780		780	
Rated short-circuit making capacity	Icm	kA	1,4		1,4		1,4	
AC inputs								
Rated insulation voltage	Ui	V	-	-	-	-	-	-
Rated impulse withstand voltage	Uimp	kV	-	-	-	-	-	-
Rated thermal current	Ith	A	-	-	-	-	-	-
Utilization category			-	-	-	-	-	-
Rated operational current	Ie	690V	-	-	-	-	-	-
Mechanical characteristics								
Terminal capacity with solid wires	Max	mm ²	2x6		2x6		2x6	
		AWG	10		10		10	
Terminal capacity with fork terminals 10 mm ²	Max	mm ²	1x10		1x10		1x10	
		AWG	8		8		8	
Terminal capacity with fork terminals 16 mm ²	Max	mm ²	1x16		1x16		1x16	
		AWG	6		6		6	
Terminal screw			M4		M4		M4	
Screw tightening torque		Nm	1,7 ±10%		1,7 ±10%		1,7 ±10%	
		lb.in	12 ±10%		12 ±10%		12 ±10%	
Protection degree IEC 529 EN 60529								
Terminals			IP20		IP20		IP20	
Ambient conditions								
Pollution degree			2		3		3	
Operational ambient temperature		°C	-40°C ÷ +70°C		-40°C ÷ +70°C		-40°C ÷ +70°C	
Storage ambient temperature		°C	-40°C ÷ +85°C		-40°C ÷ +85°C		-40°C ÷ +85°C	
Damp heat test IEC60068-2-30			90-100% RH at +55 °C		90-100% RH at +55 °C		90-100% RH at +55 °C	

DP - DK - DM - DX Series - Product range

1000 VDC											
DP10012 DC21B/PV1		DP10012 PV2		DK10016 DC21B/PV1		DK10016 PV2		DM10020... DC21B/PV1		DM10020... PV2	
N° poles 1 + 1		N° poles 1 + 1		N° poles 1 + 1		N° poles 1 + 1		N° poles 1 + 1		N° poles 1 + 1	
1000VDC 12A	1000VDC 4A	1200VDC 8A		1100VDC 12A	1100VDC 5A	1000VDC 16A	1000VDC 6A	1000VDC 20A	1000VDC 10A	750VDC 32A	750VDC 18A
750VDC 25A	750VDC 10A	750VDC 32A		750VDC 12A		750VDC 12A		750VDC 32A	750VDC 18A	700VDC 40A	700VDC 20A
600VDC 32A	600VDC 16A			700VDC 16A				500VDC 50A			
		500VDC 50A									

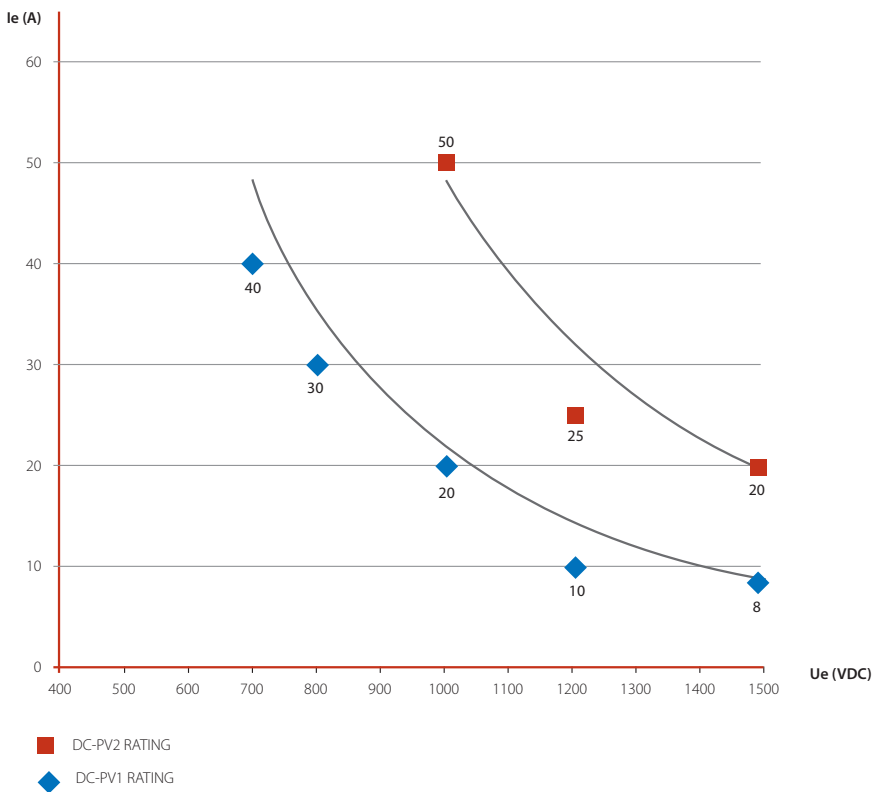
I-V curve range - From DP10012



1500VDC

DX12030 DC21B/PV1		DX12030 PV2		DX12030 ADVANCED DC21B/PV1		DX12030 ADVANCED PV2		DX15030 DC21B/PV1		DX15030 PV2	
N° poles 1 + 1				N° poles 1 + 1				N° poles 1 + 1			
1500VDC 10A		1500VDC 5A		1500VDC 15A		1500VDC 6A		1500VDC 20A		1500VDC 8A	
1250V 20A		1250V 8A		1250V 25A		1250V 10A		1300V 25A		1300V 10A	
1000VDC 30A		1000VDC 12A		1100VDC 30A		1100VDC 12A		1250V 30A		1250V 12A	
800VDC 45A		800VDC 17A		1000VDC 40A		1000VDC 16A		1000VDC 50A		1000VDC 20A	
		700VDC 25A		800VDC 50A		800VDC 20A				800VDC 30A	
						700VDC 30A				700VDC 40A	

I-V curve range - Up to DX15030



Applications

The DC disconnect switches are characterized by high performance and are suitable for installation in different applications, like inverter system, or string box or any other application with DC current (for ex battery disconnection).

■ Inverter



■ String combiner boxes



■ Energy storage systems (ESS)



IP Protection

The highest level of waterproof and dustproof in photovoltaic industry certified by TUV.
IP66 Standard / IP67 Optional.
Please contact us for more information.

■ IP66 - Water resistant against powerful jets



To pass IP66 testing, the fixture must be able to protect against powerful water jets.
Water projected in powerful jets (12.5 mm nozzle) against the enclosure from any direction shall have no harmful effects.

Test duration: at least 3 minutes.

Water volume: 100 litres per minute.

Pressure: 100 kPa at distance of 3 m.

■ This protection is required for the main PV installation

DP-DK-DM-DX switches have an IP66 protection degree.



■ IP67 - Protected against complete temporary water submersion



To pass IP67 testing, ingress of water in harmful quantity shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time (up to 1 m of submersion).

Test duration: 30 minutes.

Immersion at depth of at least 1 m measured at bottom of device, and at least 15 cm measured at top of device.

■ This protection is required for floating PV installation

DP-DK-DM-DX switches are available on request with an IP67 protection degree.



Type of fixing

DP-DK-DM-DX switch disconnectors allow these fixing:

Panel mount by screws:

- 36x36mm fixing interaxes;
- 48x48mm fixing interaxes.

Main features:

- No bending of switch;
- No DIN Rail needed.

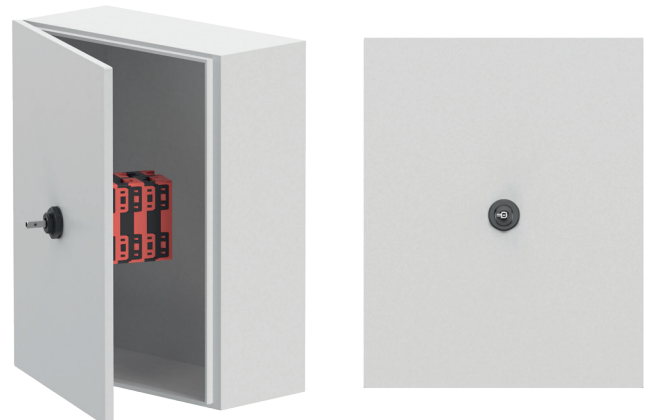


Panel mount by M16 holes:

- fixing by nut with a M16x1,5 mm holes.

Main features:

- Reduced assembly time.



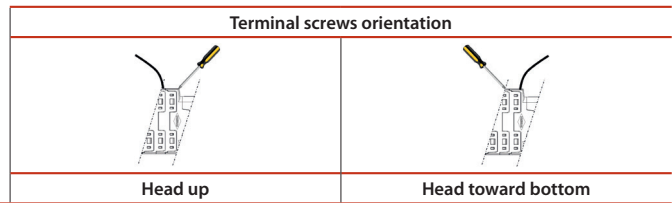
Double mount by M16 holes

- fixing on the DIN rail;
- fixing on panel by a nut with a M16x1,5 mm holes.



Mounting type

DP-DK-DM-DX series offer the possibility to fix the switch disconnectors in these ways:



Rear mounting			
Product image	Description	Mounting type	Mounting type
	Fixing M16 (L=12mm)	L	M
	Fixing 36x36mm with tapping screws	T	R
	Fixing 48x48mm with tapping screws	C	P
Double mounting			
Product image	Description	Mounting type	Mounting type
	Fixing M16 (L=12mm) / Back for DIN rail	V	-
	Fixing 36x36mm with tapping screws / Back for DIN rail	W	-
	Fixing 48x48mm with tapping screws / Back for DIN rail	J	-
Direct operation			
Product image	Description	Mounting type	Mounting type
	Direct operation / Back for DIN rail (with mounted plate and/or knob)	E	-
	Back for DIN rail for DDN (with mounted Knob)	D	-

Other configurations available upon request.

Handle positions

DP-DK-DM-DX series offer the possibility to have the "0-OFF" handle position in these ways:

■ Rear mounting or Base/double mounting

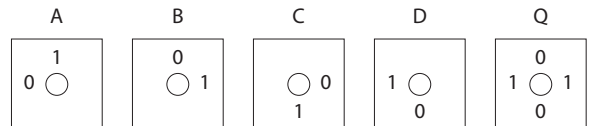
A = 9 (OFF) and 12 o'clock (ON)

B = 12 (OFF) and 3 o'clock (ON)

C = 3 (OFF) and 6 o'clock (ON)

D = 6 (OFF) and 9 o'clock (ON)

Q = 12 (OFF) and 3 o'clock (ON); 6 (OFF) and 9 o'clock (ON)



DP-DK-DM-DX series offer the possibility to realize a lot of different input configuration. The standard configuration supplied is 1+1 poles.

■ Other configurations available upon request

For the order code, please contact BREMAS.

■ Wide range of handle and plates

Rear mounting - screw fixing - IP66 handles				Rear and double mounting - M16x1,5 mm single hole and nut fixing						
	RV4	RW4	RV6		MVU5	MVU6	ML6	MKU6	ML5	MKU5
	RW6	RKU6S	RL6S		By screw			By nut in single hole M16		
				Fixing	By screw		By nut in single hole M16			

Standard and approvals

Country	Tecnischer Überwachungs-Verein	China	Germany	Switzerland	Denmark	Norway	Sweden	Finland	Austria	Australia	Great Britain
Authority											
Mark of standard			VDE 0660								BS EN 60947
DP 100 12	•	•	+	+	+	+	+	+	+	+	+
DK 100 16	•	•	+	+	+	+	+	+	+	+	+
DM 100 20	•	•	+	+	+	+	+	+	+	+	+
DX 120 30	•	•	+	+	+	+	+	+	+	+	+
DX 120 30 ADVANCED	•	•	+	+	+	+	+	+	+	+	+
DX 150 30	•	•	+	+	+	+	+	+	+	+	+

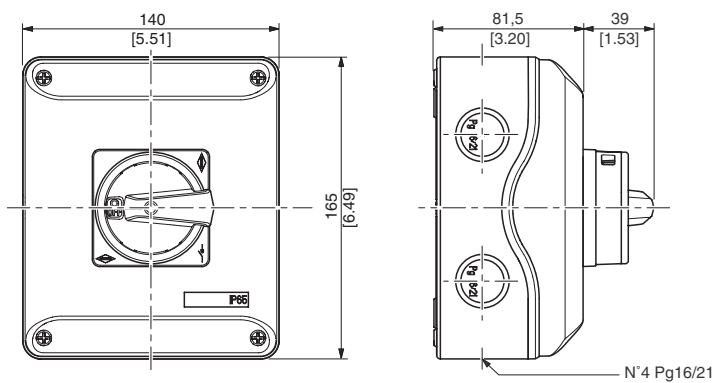
• Approved
+ Conforms to requirements

Enclosed disconnect switches





■ Enclosed DC Disconnect switches IP65

- Nominal current from 12A up to 50 amp
- Nominal voltage up to 1500 Vdc
- Up to 4 DC Poles switching
- Compact dimensions
- Maximum terminal access
- IEC EN 60947 certified
- IP65 protection degree
- Double insulation ABS thermoplastic enclosure
- Handles padlockable in "OFF" position
- Cable entry knockout to simplify wiring



DP - DK - DM - DX series for DDN

n° of poles 1+1			DIN rail mounting	
				
For DDN				
Series	PV1 cat. Per pole	N° of layers	Order code	Pack
DP	1000V - 12A	3*	DP100121E0ADRND	30
DK	1000V - 16A	3*	DK100161E0ADRND	30
DM	1000V - 20A	3*	DM100201E0ADRND	30
DX	1000V - 30A	3*	DX120301E0ADRND	30
	1000V - 40A	3*	DX120301EUADRND	30
	1000V - 50A	3*	DX150301EUADRND	30

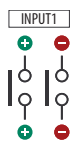

*One layer is empty



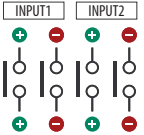

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

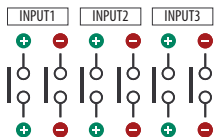

DP - DK - DM - DX series for direct operation

n° of poles 1+1			DIN rail mounting	
				
			Direct operation	
Series	PV1 cat. Per pole	N° of layers	Order code	Pack
DP	1000V - 12A	2	DP10012120AERW4	30
DK	1000V - 16A	2	DK10016120AERW4	30
DM	1000V - 20A	2	DM10020120AERW4	30
DX	1000V - 30A	3*	DX120301E0AERW4	30
	1000V - 40A	3*	DX120301EUAERW4	30
	1000V - 50A	3*	DX150301EUAERW4	30

*One layer is empty

n° of poles 2x (1+1)			DIN rail mounting	
				
			Direct operation	
Series	PV1 cat. Per pole	N° of layers	Order code	Pack
DP	1000V - 12A	4	DP10012220AERW4	20
DK	1000V - 16A	4	DK10016220AERW4	20
DM	1000V - 20A	4	DM10020220AERW4	20
DX	1000V - 30A	5*	DX120302E0AERW4	20
	1000V - 40A	5*	DX120302EUAERW4	20
	1000V - 50A	5*	DX150302EUAERW4	20

*One layer is empty





n° of poles 3x (1+1)			DIN rail mounting	
				
			Direct operation	
Series	PV1 cat. Per pole	N° of layers	Order code	Pack
DP	1000V - 12A	6	DP10012320AERW4	20
DK	1000V - 16A	6	DK10016320AERW4	20
DM	1000V - 20A	6	DM10020320AERW4	20
DX	1000V - 30A	7*	DX120303E0AERW4	20
	1000V - 40A	7*	DX120303EUAERW4	20
	1000V - 50A	7*	DX150303EUAERW4	20





*One layer is empty

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

DP - DK - DM - DX series - 1 input

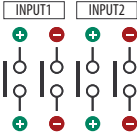



n° of poles 1+1			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	2	DP10012120ATRV4	30	DP10012120ALMVU5	30	DP10012120ALMVU6	30
DK	1000V - 16A	2	DK10016120ATRV4	30	DK10016120ALMVU5	30	DK10016120ALMVU6	30
DM	1000V - 20A	2	DM10020120ATRV4	30	DM10020120ALMVU5	30	DM10020120ALMVU6	30
DX	1000V - 30A	2	DX12030120ATRV4	30	DX12030120ALMVU5	30	DX12030120ALMVU6	30
	1000V - 40A	2	DX1203012UATRV4	30	DX1203012UALMVU5	30	DX1203012UALMVU6	30
	1000V - 50A	2	DX1503012UATRV4	30	DX1503012UALMVU5	30	DX1503012UALMVU6	30

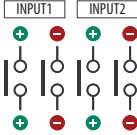



n° of poles 1+1			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	2	DP10012120ATRKU6S	30	DP10012120ALML5	30	DP10012120ALMKU6	30
DK	1000V - 16A	2	DK10016120ATRKU6S	30	DK10016120ALML5	30	DK10016120ALMKU6	30
DM	1000V - 20A	2	DM10020120ATRKU6S	30	DM10020120ALML5	30	DM10020120ALMKU6	30
DX	1000V - 30A	2	DX12030120ATRKU6S	30	DX12030120ALML5	30	DX12030120ALMKU6	30
	1000V - 40A	2	DX1203012UATRKU6S	30	DX1203012UALML5	30	DX1203012UALMKU6	30
	1000V - 50A	2	DX1503012UATRKU6S	30	DX1503012UALML5	30	DX1503012UALMKU6	30

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

DP - DK - DM - DX series - 2 inputs

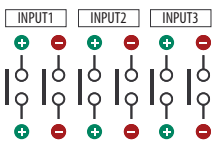



n° of poles 2x (1+1)			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	4	DP10012220ATRV4	20	DP10012220ALMVU5	20	DP10012220ALMVU6	20
DK	1000V - 16A	4	DK10016220ATRV4	20	DK10016220ALMVU5	20	DK10016220ALMVU6	20
DM	1000V - 20A	4	DM10020220ATRV4	20	DM10020220ALMVU5	20	DM10020220ALMVU6	20
DX	1000V - 30A	4	DX12030220ATRV4	20	DX12030220ALMVU5	20	DX12030220ALMVU6	20
	1000V - 40A	4	DX1203022UATRV4	20	DX1203022UALMVU5	20	DX1203022UALMVU6	20
	1000V - 50A	4	DX1503022UATRV4	20	DX1503022UALMVU5	20	DX1503022UALMVU6	20

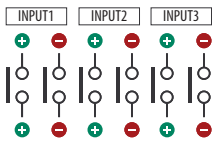



n° of poles 2x (1+1)			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	4	DP10012220ATRKU6S	20	DP10012220ALML5	20	DP10012220ALMKU6	20
DK	1000V - 16A	4	DK10016220ATRKU6S	20	DK10016220ALML5	20	DK10016220ALMKU6	20
DM	1000V - 20A	4	DM10020220ATRKU6S	20	DM10020220ALML5	20	DM10020220ALMKU6	20
DX	1000V - 30A	4	DX12030220ATRKU6S	20	DX12030220ALML5	20	DX12030220ALMKU6	20
	1000V - 40A	4	DX1203022UATRKU6S	20	DX1203022UALML5	20	DX1203022UALMKU6	20
	1000V - 50A	4	DX1503022UATRKU6S	20	DX1503022UALML5	20	DX1503022UALMKU6	20

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

DP - DK - DM - DX series - 3 inputs

n° of poles 3x (1+1)			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	6	DP10012320ATRV4	20	DP10012320ALMVU5	20	DP10012320ALMVU6	20
DK	1000V - 16A	6	DK10016320ATRV4	20	DK10016320ALMVU5	20	DK10016320ALMVU6	20
DM	1000V - 20A	6	DM10020320ATRV4	20	DM10020320ALMVU5	20	DM10020320ALMVU6	20
DX	1000V - 30A	6	DX12030320ATRV4	20	DX12030320ALMVU5	20	DX12030320ALMVU6	20
	1000V - 40A	6	DX1203032UATRV4	20	DX1203032UALMVU5	20	DX1203032UALMVU6	20
	1000V - 50A	6	DX1503032UATRV4	20	DX1503032UALMVU5	20	DX1503032UALMVU6	20

n° of poles 3x (1+1)			Rear Mounting					
								
			4 screws 36x36mm		Single hole M16			
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	6	DP10012320ATRKU6S	20	DP10012320ALML5	20	DP10012320ALMKU6	20
DK	1000V - 16A	6	DK10016320ATRKU6S	20	DK10016320ALML5	20	DK10016320ALMKU6	20
DM	1000V - 20A	6	DM10020320ATRKU6S	20	DM10020320ALML5	20	DM10020320ALMKU6	20
DX	1000V - 30A	6	DX12030320ATRKU6S	20	DX12030320ALML5	20	DX12030320ALMKU6	20
	1000V - 40A	6	DX1203032UATRKU6S	20	DX1203032UALML5	20	DX1203032UALMKU6	20
	1000V - 50A	6	DX1503032UATRKU6S	20	DX1503032UALML5	20	DX1503032UALMKU6	20

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

DP - DK - DM - DX series - 4 inputs

n° of poles 4x (1+1)			Rear Mounting					
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	8	DP10012420ATRV4	10	DP10012420ATRKU6S	10	DP10012420ALMVU5	10
DK	1000V - 16A	8	DK10016420ATRV4	10	DK10016420ATRKU6S	10	DK10016420ALMVU5	10
DM	1000V - 20A	8	DM10020420ATRV4	10	DM10020420ATRKU6S	10	DM10020420ALMVU5	10
DX	1000V - 30A	8	DX12030420ATRV4	10	DX12030420ATRKU6S	10	DX12030420ALMVU5	10
	1000V - 40A	8	DX1203042UATRV4	10	DX1203042UATRKU6S	10	DX1203042UALMVU5	10
	1000V - 50A	8	DX1503042UATRV4	10	DX1503042UATRKU6S	10	DX1503042UALMVU5	10

n° of poles 4x (1+1)			Rear Mounting					
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	8	DP10012420ALMVU6	10	DP10012420ALML5	10	DP10012420ALMKU6	10
DK	1000V - 16A	8	DK10016420ALMVU6	10	DK10016420ALML5	10	DK10016420ALMKU6	10
DM	1000V - 20A	8	DM10020420ALMVU6	10	DM10020420ALML5	10	DM10020420ALMKU6	10
DX	1000V - 30A	8	DX12030420ALMVU6	10	DX12030420ALML5	10	DX12030420ALMKU6	10
	1000V - 40A	8	DX1203042UALMVU6	10	DX1203042UALML5	10	DX1203042UALMKU6	10
	1000V - 50A	8	DX1503042UALMVU6	10	DX1503042UALML5	10	DX150301EUAERW4	10

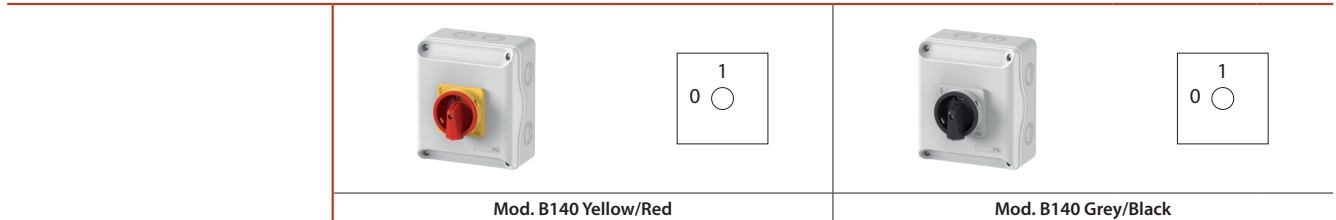
n° of poles 4x (1+1)			Double mounting					
Series	PV1 cat. Per pole	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack
DP	1000V - 12A	8	DP10012420AVMVU5	10	DP10012420AVMVU6	10	DP10012420AVML5	10
DK	1000V - 16A	8	DK10016420AVMVU5	10	DK10016420AVMVU6	10	DK10016420AVML5	10
DM	1000V - 20A	8	DM10020420AVMVU5	10	DM10020420AVMVU6	10	DM10020420AVML5	10
DX	1000V - 30A	9*	DX12030420AVMVU5	10	DX12030420AVMVU6	10	DX12030420AVML5	10
	1000V - 40A	9*	DX1203042UAVMVU5	10	DX1203042UAVMVU6	10	DX1203042UAVML5	10
	1000V - 50A	9*	DX1503042UAVMVU5	10	DX1503042UAVMVU6	10	DX1503042UAVML5	10

*One layer is empty

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

DP - DK - DM - DX series



IP65 padlockable handles

N° DC poles (inputs)	PV1 cat. Per pole	Order code	Pack	Order code	Pack
2 (1+1)	1000V - 12A	DP10012120AB140ML6	20	DP10012120AB140MKU6	20
4 (1+1)	1000V - 12A	DP10012220AB140ML6	20	DP10012220AB140MKU6	20
2 (1+1)	1000V - 16A	DK10016120AB140ML6	20	DK10016120AB140MKU6	20
4 (1+1)	1000V - 16A	DK10016220AB140ML6	20	DK10016220AB140MKU6	20
2 (1+1)	1000V - 20A	DM10020120AB140ML6	20	DM10020120AB140MKU6	20
4 (1+1)	1000V - 20A	DM10020220AB140ML6	20	DM10020220AB140MKU6	20
2 (1+1)	1000V - 30A	DX12030120AB140ML6	20	DX12030120AB140MKU6	20
4 (1+1)	1000V - 30A	DX12030220AB140ML6	20	DX12030220AB140MKU6	20
2 (1+1)	1000V - 40A	DX1203012UAB140ML6	20	DX1203012UAB140MKU6	20
4 (1+1)	1000V - 40A	DX1203022UAB140ML6	20	DX1203022UAB140MKU6	20
2 (1+1)	1000V - 50A	DX1503012UAB140ML6	20	DX1503012UAB140MKU6	20
4 (1+1)	1000V - 50A	DX1503022UAB140ML6	20	DX1503022UAB140MKU6	20

DK Series for AC current

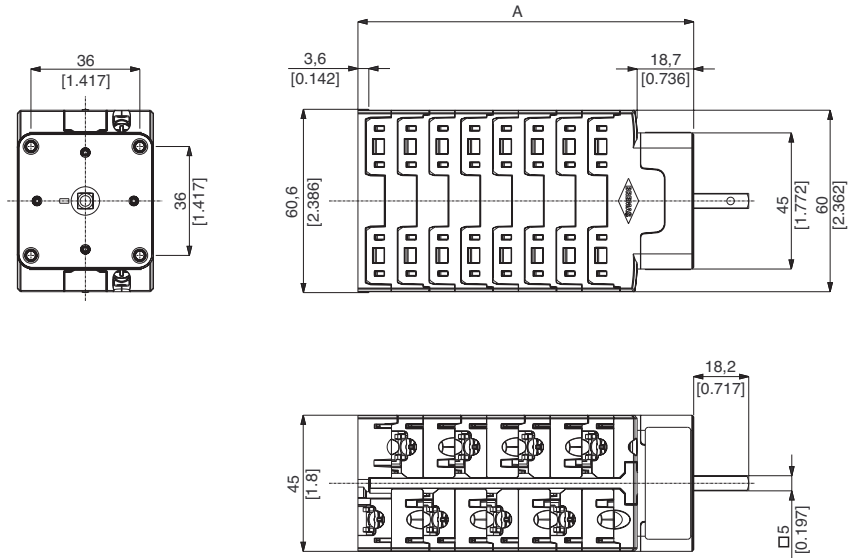
				Rear mount							
				4 screws 36x36mm				Single hole M16			
N° AC poles	Ie 690V	N° of layers	Order code	Pack	Order code	Pack	Order code	Pack	Order code	Pack	
3	AC21-B 63A	3	DK06012AC3ARRKU6S	20	DK06012AC3ARRKU6R	20	DK06012AC3AMMKU6	20	DK06012AC3AMML5	20	
4		4	DK06012AC4ARRKU6S	20	DK06012AC4ARRKU6R	20	DK06012AC4AMMKU6	20	DK06012AC4AMML5	20	

All codes are supplied with "0-OFF" position at 9 o'clock. It is possible order the same product with "0-OFF" at 12 o'clock. Optional: it is available other handles type and position; please contact BREMAS for the order codes.

Other configurations available upon request.

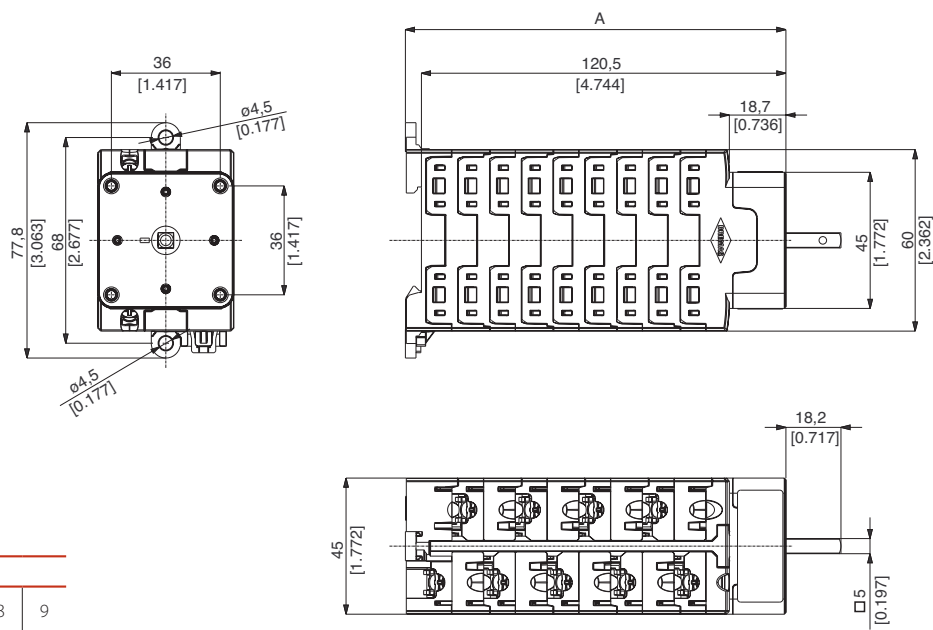
Dimensional

Rear mounting T/R



	A - Dimensions (mm)					
Number of layers	2	3	4	6	7	8
Fixing T/R	48	58,5	69	90	100,5	111

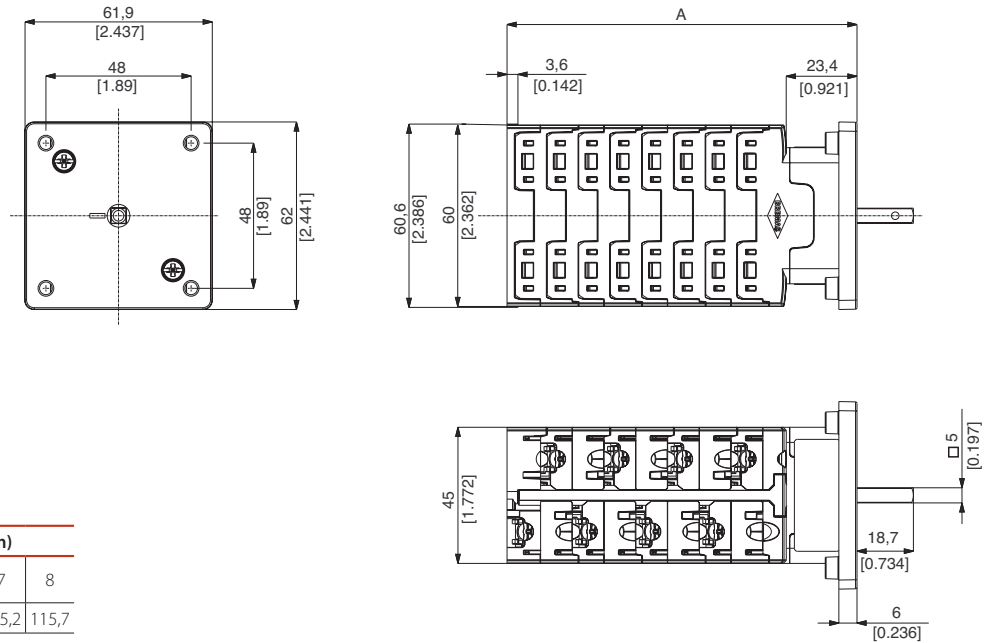
Double mounting W



	A - Dimensions (mm)								
Number of layers	2	3	4	5	6	7	8	9	
Fixing W	52,3	62,8	73,3	83,8	94,3	104,8	115,3	125,8	

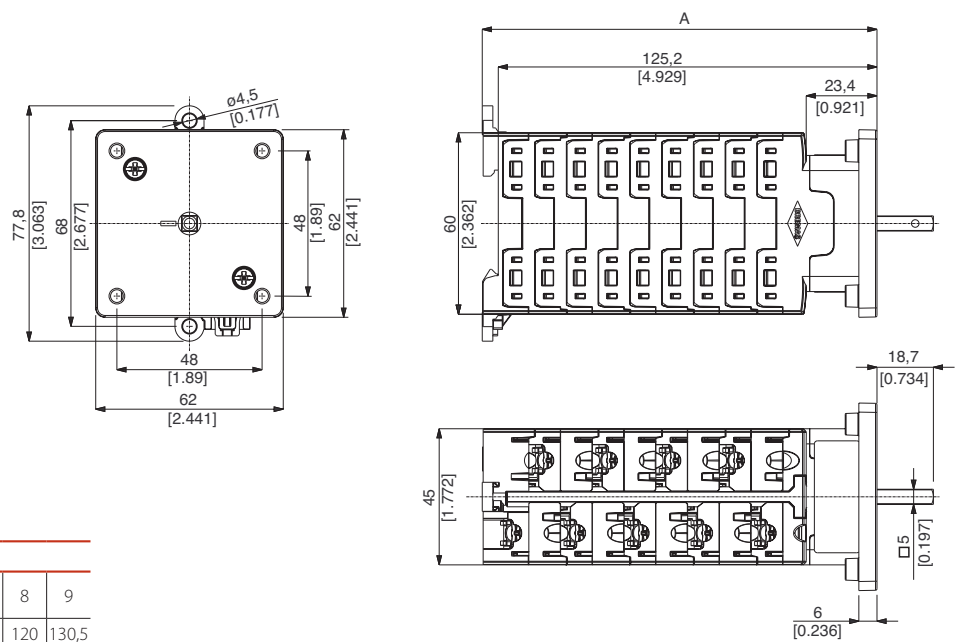
Dimensional

Rear mounting C/P



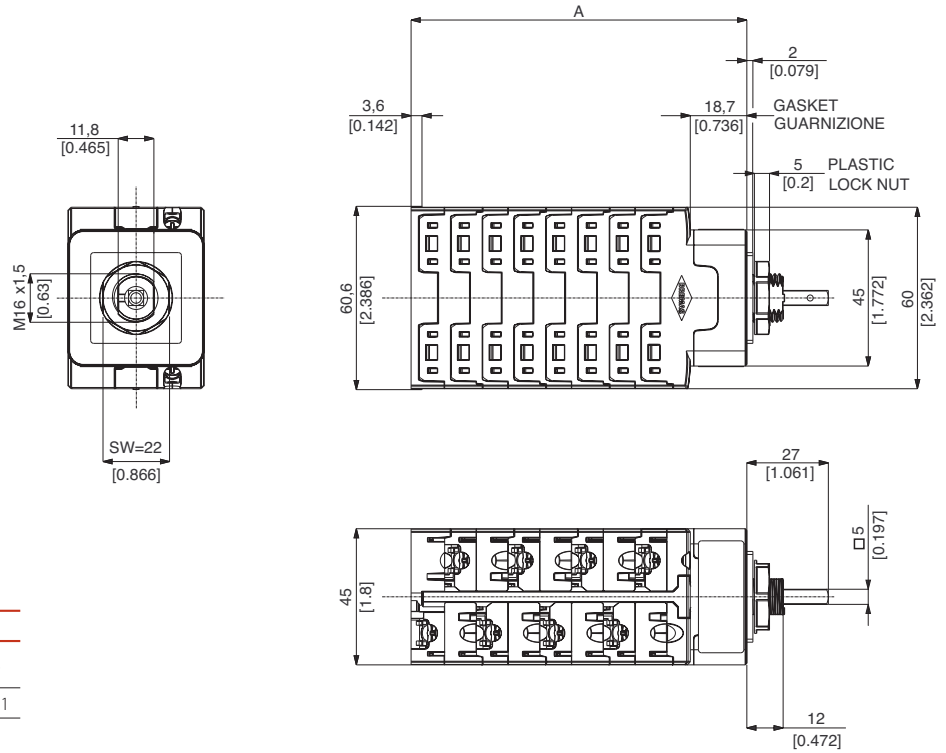
	A - Dimensions (mm)					
Number of layers	2	3	4	6	7	8
Fixing P/K	52,7	63,2	73,7	94,7	105,2	115,7

Double mounting J



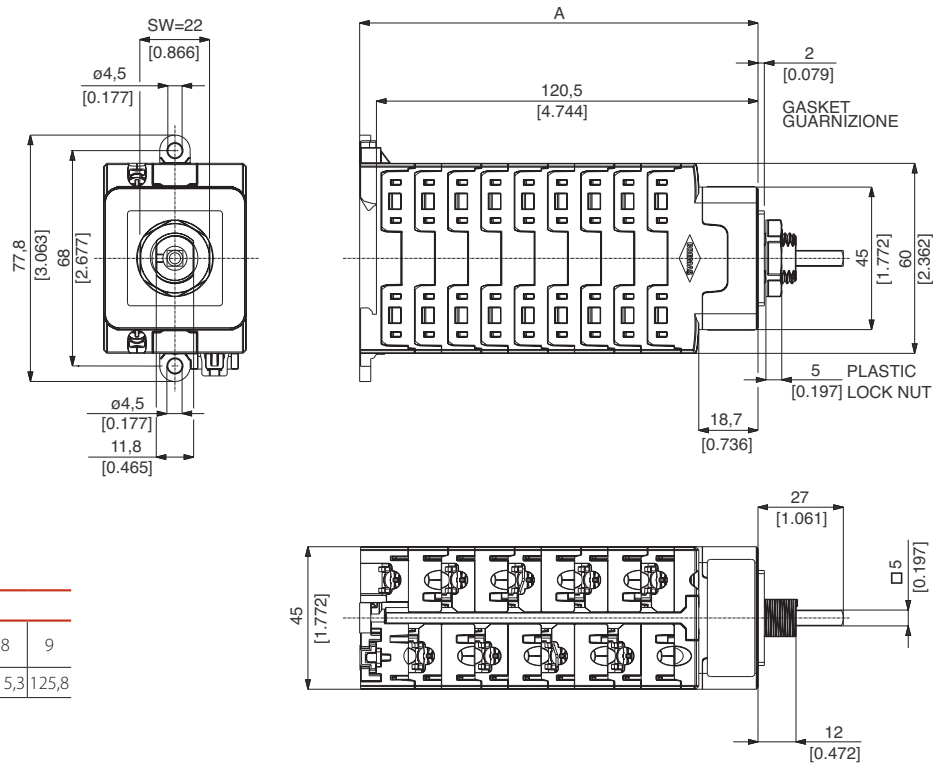
	A - Dimensions (mm)								
Number of layers	2	3	4	5	6	7	8	9	
Fixing J	57	67,5	78	88,5	99	109,5	120	130,5	

Rear mounting L/M



	A - Dimensions (mm)					
Number of layers	2	3	4	6	7	8
Fixing L/M	48	58,5	69	90	100,5	111

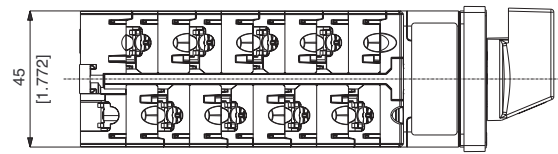
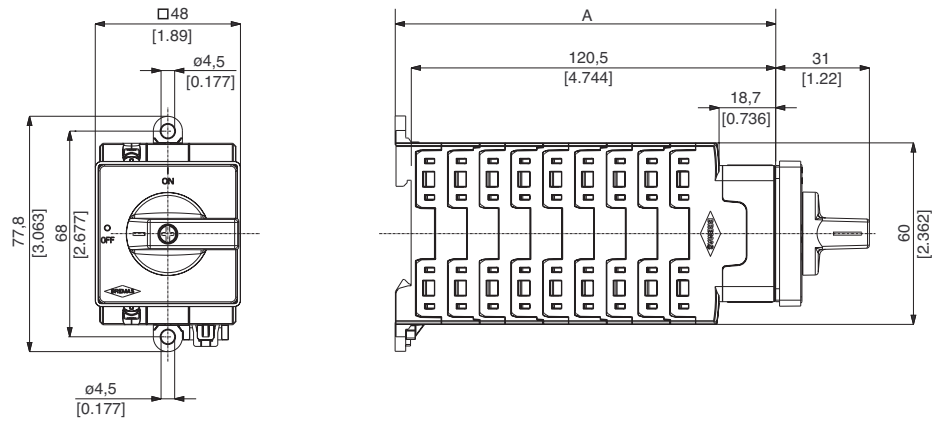
Double mounting V



	A - Dimensions (mm)								
Number of layers	2	3	4	5	6	7	8	9	
Fixing V	52,3	62,8	73,3	83,8	94,3	104,8	115,3	125,8	

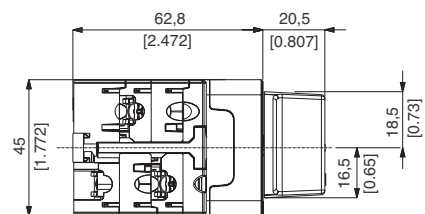
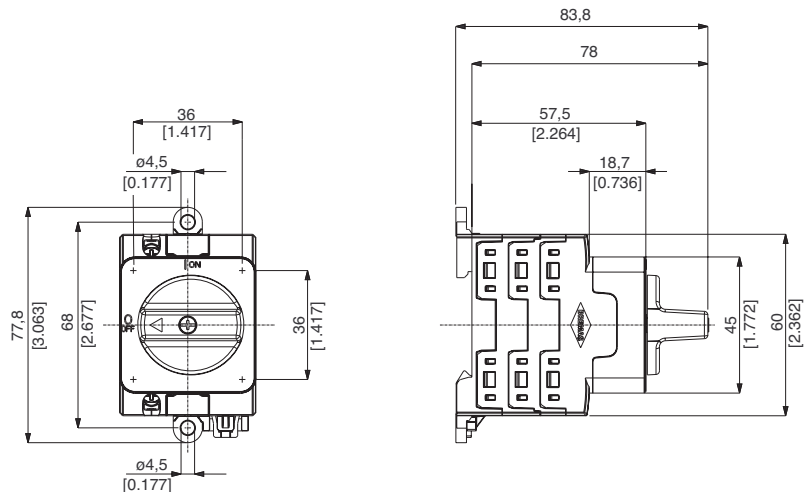
Dimensional

Din rail mounting E



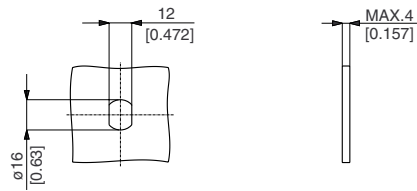
	A - Dimensions (mm)							
Number of layers	2	3	4	5	6	7	8	9
Fixing E	52,3	62,8	73,3	83,8	94,3	104,8	115,3	125,8

Din rail mounting D

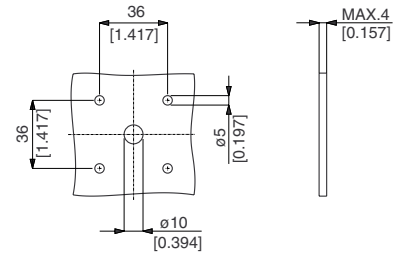


Drilling templates

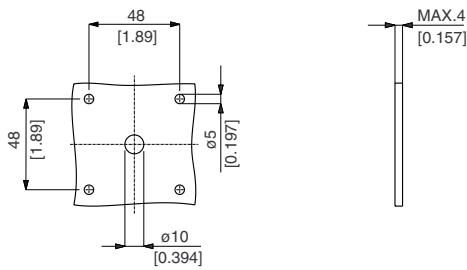
L / M fixing



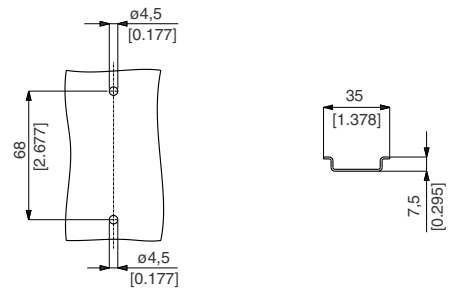
T / R fixing



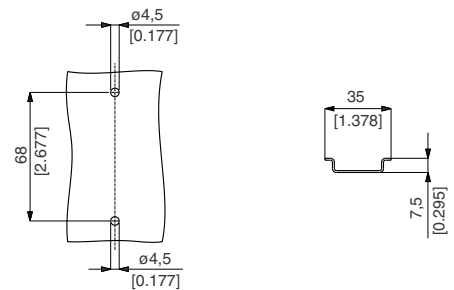
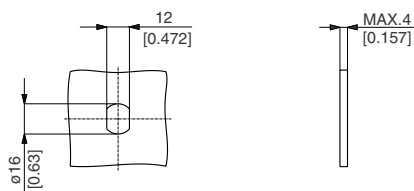
C / P fixing



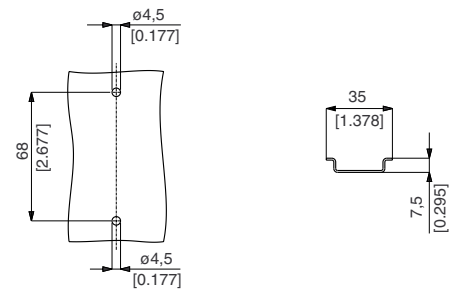
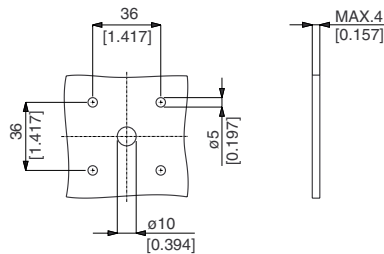
D / E fixing



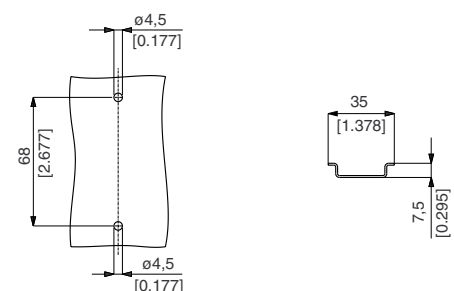
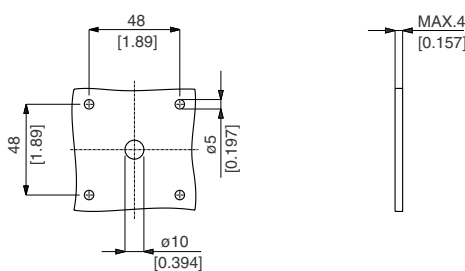
V fixing



W fixing



J fixing





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