

Dumeco DC Switch-disconnectors

Markets served

Battery storage
Industrial
Machinery



EATON

Powering Business Worldwide



Dumeco DC Switchgear: Meeting modern electrical needs

The ever-increasing complexity of residential and commercial electrical systems, combined with the rapid growth of distributed energy resources such as solar panels and DC battery storage, calls for solutions that are both technically reliable and user-friendly. Our Dumeco DDC switch-disconnectors are the ideal solution to meet these requirements, providing a vital link in maintaining electrical safety, consistent performance, and adaptability.

Whether protecting a household, supporting a small business, or enabling the smooth integration of battery storage, our switch-disconnectors are designed to address both current and future demands of the electrical industry.

With our Dumeco DDC range, installers and end-users can rely on high performance, lasting safety, and the versatility necessary to adapt to the continually evolving energy landscape.

As the world moves toward smarter and more sustainable energy solutions, dependable components like ours will remain essential to supporting progress and innovation.

Range overview

The DDC Switch-disconnectors are compliant with standard IEC/EN 60947-3 covering the following certifications: CE, CCC, RoHs, EAC.

All devices cover the following technical characteristics:


- Rated operational voltage $U_e = 800$ Vdc frame size 1, $U_e = 1000$ Vdc frame size 2 and 3
- Operator independent switching
- Special designed self-cleaning roller contacts
- Bi-directional pole connection gives installation flexibility (non-polarized)
- Suitable for rear / baseplate mounting
- Optional operating shaft lengths up to 600 mm
- Protection degree D-type door build in installation handles IP 65
- Door interlocking in OFF position by using D-type handle
- Padlockable handles in OFF position, defeatable in ON position

DDC-1 | DC Switch-disconnectors 125 A, 160 A and 200 A

The Dumeco DC Switch-disconnectors frame size 1 are available in 125 A, 160 A and 200 A versions. They are suitable for combiner boxes, inverters, DC batteries and machinery applications. They have a rated insulation voltage (U_i) of 800 V per pole, and a small footprint for switches of this rating.

Features:

- Full 2-pole DC isolator rated $U_i = 800$ V per pole
- High short-circuit ratings, utilization category DC-21B
- No de-rating, fully rated at 65 °C up to 200 A
- Optional auxiliary switch 2 NO + 2 NC
- Dimensions [mm]: 157 x 83 x 98


	Description	Part no.	Article no.
	DDC 125A 2P with pre-mounted grey handle	DDC-125/2	6098930
	DDC 125A 2P without shaft & handle	DDC-125/2-SK	6098931
	DDC 125A 2P with 300 mm shaft & grey handle	DDC-125/2/M4/P-G	6098932
	DDC 160A 2P with pre-mounted grey handle	DDC-160/2	6098933
	DDC 160A 2P without shaft & handle	DDC-160/2-SK	6098934
	DDC 160A 2P with 300 mm shaft & grey handle	DDC-160/2/M4/P-G	6098935
	DDC 200A 2P with pre-mounted grey handle	DDC-200/2	6098936
	DDC 200A 2P without shaft & handle	DDC-200/2-SK	6098937
	DDC 200A 2P with 300 mm shaft & grey handle	DDC-200/2/M4/P-G	6098938

DDC-2 | DC Switch-disconnectors 250 A, 400 A and 630 A

The Dumeco DC Switch-disconnectors frame size 2 are available in 250 A, 400 A and 630 A devices featuring high short-circuit ratings (I_{cw}) of 15 kA (1 sec.). The DDC-2 devices are available with a rated insulation voltage (U_i) of 1000 V per pole, suitable for combiner boxes, inverters, DC batteries and machinery applications

Features:

- Full 2-pole DC isolator rated $U_i = 1000$ V per pole
- High short-circuit ratings, utilization category DC-21B
- No de-rating, fully rated at 65 °C up to 250 A
- Optional auxiliary switch 2 NO + 2 NC
- Dimensions [mm]: 240 x 127 x 129

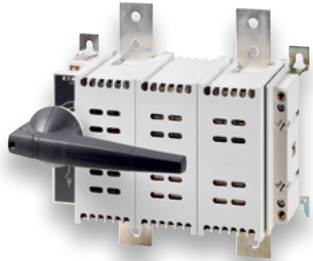
	Description	Part no.	Article no.
	DDC 250A 2P with pre-mounted grey handle	DDC-250/2	6098940
	DDC 250A 2P without shaft & handle	DDC-250/2-SK	6098941
	DDC 250A 2P with 300 mm shaft & grey handle	DDC-250/2/M4/P-G	6098942
	DDC 400A 2P with pre-mounted grey handle	DDC-400/2	6098943
	DDC 400A 2P without shaft & handle	DDC-400/2-SK	6098944
	DDC 400A 2P with 300 mm shaft & grey handle	DDC-400/2/M4/P-G	6098945
	DDC 630A 2P with pre-mounted grey handle	DDC-630/2	6098946
	DDC 630A 2P without shaft & handle	DDC-630/2-SK	6098947
	DDC 630A 2P with 300 mm shaft & grey handle	DDC-630/2/M4/P-G	6098948

DDC-3 | DC Switch-disconnectors 800 A, 1000 A and 1250 A

The Dumeco DC Switch-disconnectors frame size 3 are available in 800 A, 1000 A and 1250 A versions. They provide a rated insulation voltage (Ui) of 1000 V per pole. They are extremely compact for high-amperage DC switch-disconnectors and are suitable for combiner boxes, inverters, DC batteries and machinery applications

Features:

- Full 2-pole DC isolator rated $U_i=1000$ V per pole
- High short-circuit ratings
- Utilization category DC-21B
- Optional auxiliary switch 1 NO + 1 NC
- Dimensions [mm]: 346 x 176 x 160



Description

DDC 800A 2P with pre-mounted grey handle
 DDC 800A 2P without shaft & handle
 DDC 800A 2P with 300 mm shaft & grey handle
 DDC 1000A 2P with pre-mounted grey handle
 DDC 1000A 2P without shaft & handle
 DDC 1000A 2P with 300 mm shaft & grey handle
 DDC 1250A 2P with pre-mounted grey handle
 DDC 1250A 2P without shaft & handle
 DDC 1250A 2P with 300 mm shaft & grey handle

Part no.

DDC-800/2
DDC-800/2-SK
DDC-800/2/M4/P-G
DDC-1000/2
DDC-1000/2-SK
DDC-1000/2/M4/P-G
DDC-1250/2
DDC-1250/2-SK
DDC-1250/2/M4/P-G

Article no.


6098950
 6098951
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Accessories for Dumeco DC Switch-disconnectors


In addition to the switch/handle combinations available as standard, the following accessories are available for DDC:


Auxiliary contact set							
	Description	Contacts	DDC-1	DDC-2	DDC-3	Part No.	Article No
	Auxiliary contact (one pc./switch can be mounted in DDC-0; 2 pcs./switch in DDC-1/-2)	1NO + 1NC	•	•		AUX1NO+1NC-BOX012	6028293
	Auxiliary contact, for DDC-3 (one pc./switch can be mounted)				•	AUX1NO+1NC-BOX3	6101137


K-line rotary handles								
	Description	Color	Shaft length [mm]	DDC-1	DDC-2	DDC-3	Part No.	Article No.
	A type for direct mounting.	Grey	77	•			K2AG	1818201
		Red		•			K2AR	1818006
		Grey	146		•		K3AG	1818202
		Red			•		K3AR	1818111
		Grey	249			•	K4AG	1818203
		Red				•	K4AR	1818010
	D type for „Through the door“ mounting, with door interlock and integrated cylinder lock.	Grey	95	•			K2DG/P	1818037
		Red/Yellow		•			K2DR/P	1818036
		Grey	146		•		K3KDG/P	1818069
		Red/Yellow			•		K3KDR/P	1818096
		Grey	249			•	K4DG/P	1818052
		Red/Yellow				•	K4DR/P	1818051
	D type for „Through the door“ mounting, with door interlock and integrated cylinder lock.	Grey	95	•			K2DG/C	1818043
		Red/Yellow		•			K2DR/C	1818042
		Grey	146		•		K3KDG/C	1818070
		Red/Yellow			•		K3KDR/C	1818097
		Grey	249			•	K4DG/C	1818055
		Red/Yellow				•	K4DR/C	1818054


Drive shafts								
	Description	Shaft diameter [mm]	Shaft length [mm]	DDC-1	DDC-2	DDC-3	Part No.	Article No
	Drive shafts (for DDC-../2-SK)	8 x 8	300	●			4K8300MMK2	1319311
			600	●			4K8600MMK2	1319301
		10 x 10	300		●		4K10300MMK3	1319319
			600		●		4K10600MMK3	1319322
		12 x 12	300			●	4K12300MMK4	1319326
			600			●	4K12600MMK4	1319329

Shaft extensions								
		Shaft diameter [mm]	DDC-1	DDC-2	DDC-3	Part No.	Article No.	
	Shaft connector	12 x 12 - 14 x 14			●	SC4K12/14	6098274	

Conversion kit for handle locking in both ON and OFF position (standard locks in OFF position only)								
	Description	Handle	DDC-1	DDC-2	DDC-3	Part No.	Article No.	
	For enabling the handle to be lockable in both ON and OFF	K2	●			ADAPTORPADLOCK-K2	1818104	
		K3		●		ADAPTORPADLOCK-K3	1818105	
		K4			●	ADAPTORPADLOCK-K4,K5,K6	1818106	

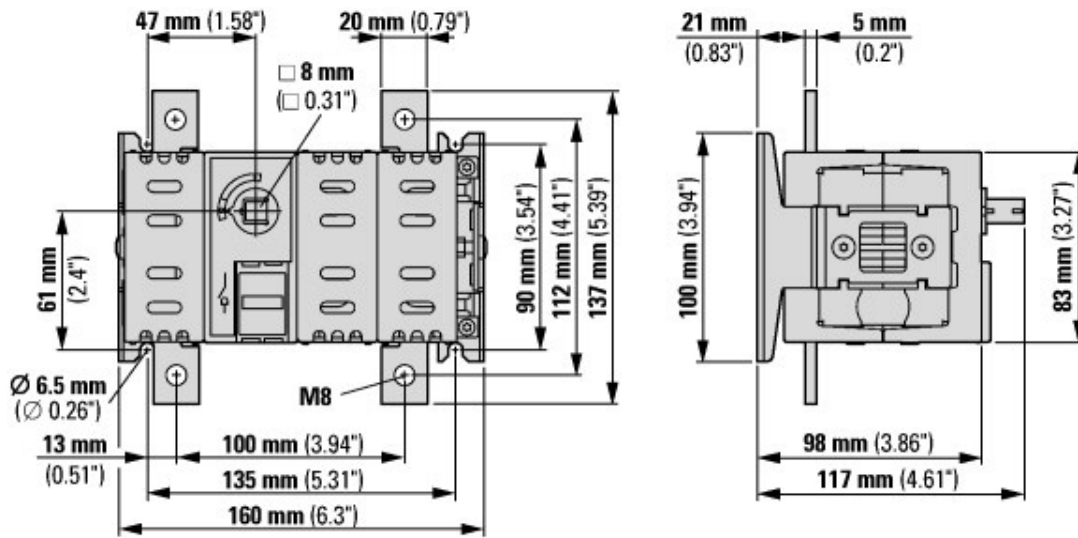
Lock multiplier for K-line handles								
	Description	Shackle [mm]	DDC-1	DDC-2	DDC-3	Part No.	Article No.	
	Lock multiplier for three additional locks	9	●	●	●	LOCKMULTIPLIER-K1-6	1059849	

Connection kit								
	Description	Bolt size	DDC-1	DDC-2	DDC-3	Part No.	Article No.	
	Connection kit	M8 x 20 mm	●			KITM8X20	1314927	
		M10 x 20 mm		●		KITM10X20	1314915	
		M10 x 30 mm		●		KITM10X30	1314648	
		M12 x 35 mm			●	KITM12X35	1314857	

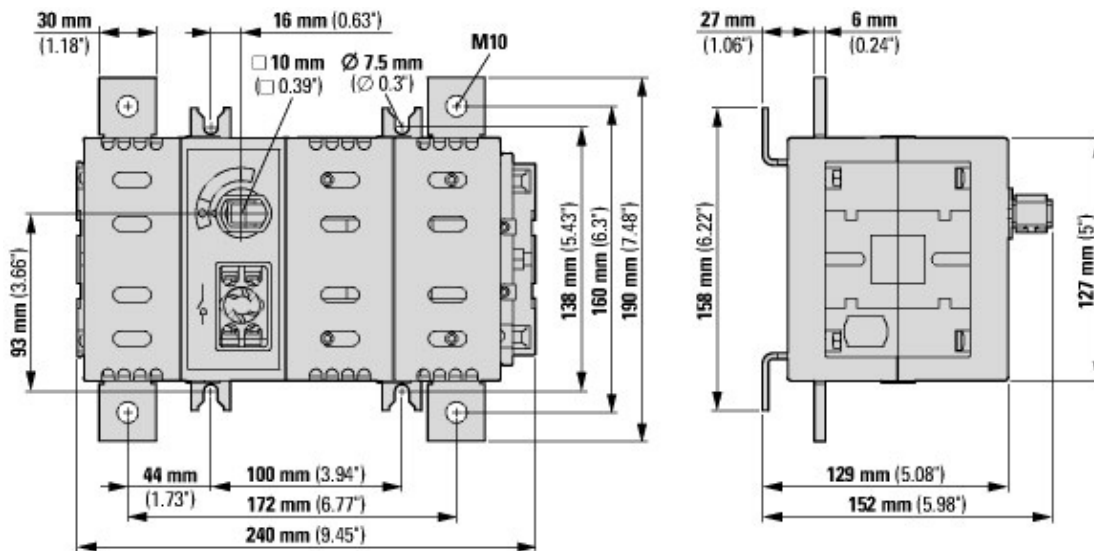
Terminal covers								
	Description	Bolt size	DDC-1	DDC-2	DDC-3	Part No.	Article No.	
	Terminal cover 1 piece per pole	M8	●			QSACOVER1PM8	1319411	
		M10		●		QSACOVER1PM10	1319413	
		M12			●	QSACOVER1PM12	1319415	

Dimensions and wiring diagram

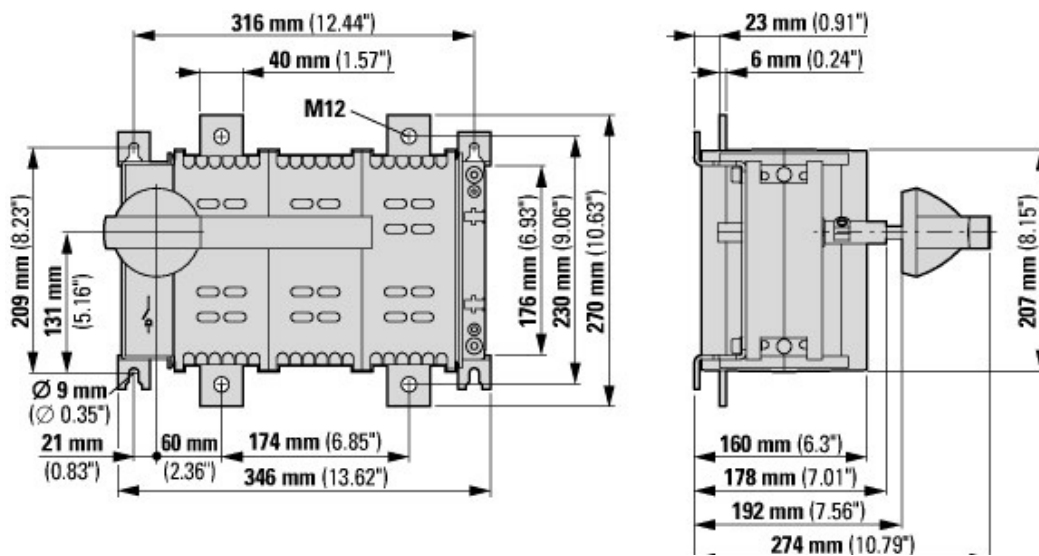
DDC-1 series | DDC-125, DDC-160, DDC-200



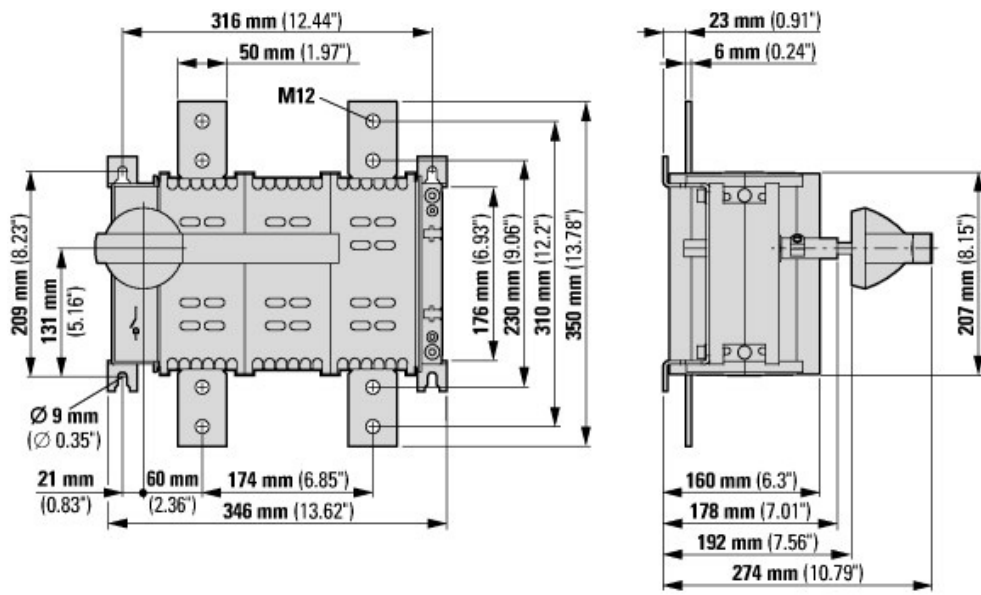
DDC-2 series | DDC-250, DDC-400, DDC-630



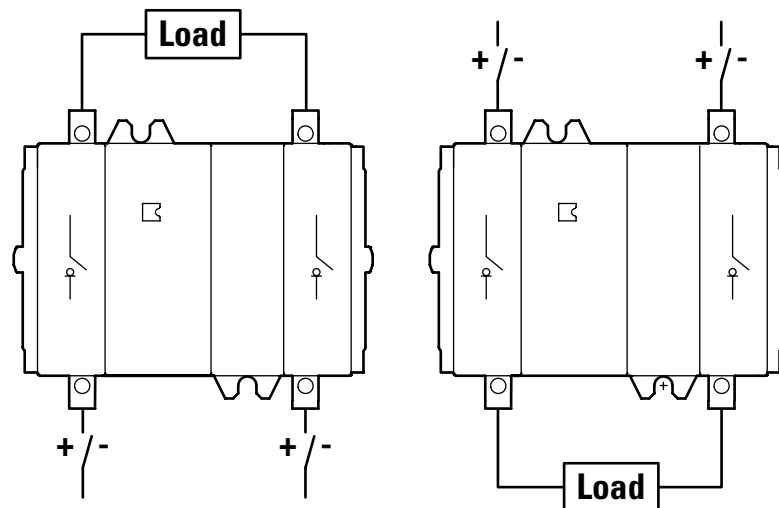
DDC-3 series | DDC-800



DDC-3 series | DDC-1000 & DDC-1250



Wiring diagram for DDC-series



Technical datasheet

Dumeco – DDC-125 A to DDC-1250 A

Type	DDC-1					DDC-2			DDC-3			
General		125 A	160 A	200 A		250 A	400 A	630 A	800 A	1000 A	1250 A	
Free-air thermal current I _{th}	A	125	160	200		250	400	630	800	1000	1250	
Enclosed thermal current I _{the}	35 °C	A	125	160	200	250	400	630	800	1000	1250	
	50 °C	A	125	160	200	250	400	560	800	1000	1200	
	65 °C	A	125	160	200	250	380	480	700	900	1000	
Pole Configuration		2P				2P				2P		
Standards		IEC 60947-3					IEC 60947-3			IEC 60947-3		
Approvals		CE, RoHs, EAC, CCC					CE, RoHs, EAC, CCC			CE, RoHs, EAC, CCC		
Rated operational voltage	U _e	V _{dc}	800			1000			1000			
Pollution Degree Protection Class			III/3 IP20			III/3 IP20			III/3 IP20			
Rated insulation voltage per pole	U _i	V _{dc}	1200			1200			1200			
Rated impulse withstand voltage	U _{imp}	kV	8			12			12			
Storage temperature (min/max)			-40 °C...+80 °C			-40 °C...+80 °C			-40 °C...+80 °C			

IEC Contact rating											
Rated operational current I _e (DC-21B)	U _e =480V	A	125	160	200	250	400	630	800	1000	1250
	U _e =600V	A	125	160	200	250	400	630	800	1000	1250
	U _e =800V	A	125	160	200	250	400	630	800	1000	1250
	U _e =1000V	A	-	-	-	250	400	630	800	1000	1250
Switching category			B			B			B		

Product characteristics											
Rated short-time withstand current	I _{cw} (1sec.)	kAs	4			15			25		
Rated short circuit making capacity	I _{cm}	kA	6			25			54.5		
Power dissipation per contact at I _{th}		W	8	13	21	15	39	97	34	53	83
Durability - maximum cycles (on+off)			10,000			10,000			5,000		
Terminal tightening torque		Nm	14			20			28		
Terminal bolt size		mm	M8			M10			M10	2x M12	
Cross Section	Stranded	mm ²	1 x 120			1 x 240	2 x 185		2 x 240	-	-
	Flexible	mm ²	-			-			-		
	Bus bars	mm ²	1 x 30 x 3 / 2 x 20 x 3			1 x 25 x 6	2 x 25 x 6	2 x 40 x 5	2 x 50 x 5	2 x 60 x 5	2 x 80 x 5
Auxiliary contacts (M22-CK11)	1NO+1NC	pcs	2			2			1		
Weight		kg	2			5			13.5	14	
Dimensions	Width	mm	160			240			346		
	Height	mm	83			127			207		
	Depth	mm	98			129			160		

Discover our complete range of industrial Dumeco switch-disconnectors



The right choice for industrial power control

Eaton's Dumeco DMV, DCM, and DMM switch-disconnectors stand at the forefront of safety, reliability, and versatility for industrial switchboards and panels. With robust performance up to 3150 Amps, comprehensive certifications, and adaptable configurations, these switch-disconnectors provide unbeatable peace of mind—ensuring your people, equipment, and operations are always protected.

Choose Dumeco for your next project and experience the assurance of world-class engineering and innovation.

Eaton is an intelligent power management company dedicated to protecting the environment and improving the quality of life for people everywhere. We make products for the data center, utility, industrial, commercial, machine building, residential, aerospace and mobility markets. We are guided by our commitment to do business right, to operate sustainably and to help our customers manage power - today and well into the future. By capitalizing on the global growth trends of electrification and digitalization, we're helping to solve the world's most urgent power management challenges and building a more sustainable society for people today and generations to come.

Founded in 1911, Eaton has continuously evolved to meet the changing and expanding needs of our stakeholders. With revenues of nearly \$25 billion in 2024, the company serves customers in more than 160 countries.

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