

**DC switch disconnecter, 100 A, 2 pole, 2 N/O, 2 N/C, with grey knob,  
service distribution board mounting**

**Part no. DDC-100/2  
6098926**

<b>General specifications</b>		
Product name		Eaton DDC Insulated enclosure
Part no.		DDC-100/2
EAN		8711426533226
Product Length/Depth		132 millimetre
Product height		97 millimetre
Product width		90 millimetre
Product weight		1.5 kilogram
Certifications		RoHS CE IEC/EN 60947 IEC/EN 60204 VDE 0660 IEC/EN 60947-3
Product Tradename		DDC
Product Type		Insulated enclosure
Product Sub Type		None
Catalog Notes		Rated Short-time Withstand Current (Icw) for a time of 1 second
<b>Features &amp; Functions</b>		
Actuator color		Gray
Actuator type		Long turning handle
Features		Version as main switch Version as maintenance-/service switch
Fitted with:		Gray knob
Functions		Interlockable
Number of poles		Two-pole
<b>General information</b>		
Accessories		Auxiliary contact fitted by user.
Degree of protection		NEMA Other
Degree of protection (front side)		IP20
Lifespan, mechanical		10,000 Operations
Mounting method		Service distribution board mounting
Mounting position		As required
Overvoltage category		III
Pollution degree		3
Product Category		DC switch-disconnector Main switch
Rated impulse withstand voltage (Uimp)		8000 V
Suitable for		Ground mounting
<b>Climatic environmental conditions</b>		
Ambient operating temperature - min		-25 °C
Ambient operating temperature - max		55 °C
Ambient storage temperature - min		-30 °C
Ambient storage temperature - max		80 °C
<b>Terminal capacities</b>		
Terminal capacity		6 - 35 mm <sup>2</sup> , solid 6 - 25 mm <sup>2</sup> , flexible
Stripping length (main cable)		15 mm
Tightening torque		3 Nm, Screw terminals
<b>Electrical rating</b>		

Rated operational current (Ie) at DC-21B, 1000 V		100 A
Rated operational current (Ie) at DC-21B, 480 V		100 A
Rated operational current (Ie) at DC-21B, 600 V		100 A
Rated operational power at AC-23A, 400 V, 50 Hz		0 kW
Rated operational power at AC-3, 380/400 V, 50 Hz		0 kW
Rated operational voltage (Ue) at AC - max		1000 V
Rated uninterrupted current (Iu)		100 A
Uninterrupted current		Rated uninterrupted current Iu is specified for max. cross-section.
Rated insulation voltage (Ui)		1100 V
<b>Short-circuit rating</b>		
Rated conditional short-circuit current (Iq)		0 kA
Rated short-circuit making capacity (Icm)		4.3 kAeff
Rated short-time withstand current (Icw)		3 kA, Contacts, 1 second 3 kA
<b>Contacts</b>		
Number of auxiliary contacts (change-over contacts)		0
Number of auxiliary contacts (normally closed contacts)		2
Number of auxiliary contacts (normally open contacts)		2
<b>Design verification</b>		
Equipment heat dissipation, current-dependent Pvid		6 W
Heat dissipation capacity Pdis		0 W
Heat dissipation per pole, current-dependent Pvid		6 W
Rated operational current for specified heat dissipation (In)		100 A
Static heat dissipation, non-current-dependent Pvs		0 W
10.2.2 Corrosion resistance		Meets the product standard's requirements.
10.2.3.1 Verification of thermal stability of enclosures		Meets the product standard's requirements.
10.2.3.2 Verification of resistance of insulating materials to normal heat		Meets the product standard's requirements.
10.2.3.3 Resist. of insul. mat. to abnormal heat/fire by internal elect. effects		Meets the product standard's requirements.
10.2.4 Resistance to ultra-violet (UV) radiation		Meets the product standard's requirements.
10.2.5 Lifting		Does not apply, since the entire switchgear needs to be evaluated.
10.2.6 Mechanical impact		Does not apply, since the entire switchgear needs to be evaluated.
10.2.7 Inscriptions		Meets the product standard's requirements.
10.3 Degree of protection of assemblies		Does not apply, since the entire switchgear needs to be evaluated.
10.4 Clearances and creepage distances		Meets the product standard's requirements.
10.5 Protection against electric shock		Does not apply, since the entire switchgear needs to be evaluated.
10.6 Incorporation of switching devices and components		Does not apply, since the entire switchgear needs to be evaluated.
10.7 Internal electrical circuits and connections		Is the panel builder's responsibility.
10.8 Connections for external conductors		Is the panel builder's responsibility.
10.9.2 Power-frequency electric strength		Is the panel builder's responsibility.
10.9.3 Impulse withstand voltage		Is the panel builder's responsibility.
10.9.4 Testing of enclosures made of insulating material		Is the panel builder's responsibility.
10.10 Temperature rise		The panel builder is responsible for the temperature rise calculation. Eaton will provide heat dissipation data for the devices.
10.11 Short-circuit rating		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.12 Electromagnetic compatibility		Is the panel builder's responsibility. The specifications for the switchgear must be observed.
10.13 Mechanical function		The device meets the requirements, provided the information in the instruction leaflet (IL) is observed.

## Technical data ETIM 9.0

Low-voltage industrial components (EG000017) / Switch disconnecter (low voltage) (EC000216)		
Electric engineering, automation, process control engineering / Low-voltage switch technology / Off-load switch, circuit breaker, control switch / Switch disconnecter (ecl@ss13-27-37-14-03 [AKF060018])		
Version as main switch		Yes
Version as maintenance-/service switch		Yes
Version as safety switch		No

Version as emergency stop installation		No
Version as reversing switch		No
Number of switches		1
Max. rated operation voltage Ue AC	V	1000
Rated operating voltage	V	1000 - 1000
Rated permanent current Iu	A	100
Rated permanent current at AC-23, 400 V	A	0
Rated permanent current at AC-21, 400 V	A	0
Rated operation power at AC-3, 400 V	kW	0
Rated short-time withstand current Icw	kA	3
Rated operation power at AC-23, 400 V	kW	0
Switching power at 400 V	kW	0
Conditioned rated short-circuit current Iq	kA	0
Number of poles		2
Number of auxiliary contacts as normally closed contact		2
Number of auxiliary contacts as normally open contact		2
Number of auxiliary contacts as change-over contact		0
Motor drive optional		No
Motor drive integrated		No
Voltage release optional		No
Device construction		Built-in device fixed built-in technique
Suitable for floor mounting		Yes
Suitable for front mounting 4-hole		No
Suitable for front mounting centre		No
Suitable for distribution board installation		No
Suitable for intermediate mounting		No
Colour control element		Grey
Type of control element		Long turning handle
Interlockable		Yes
Type of electrical connection of main circuit		Screw connection
With pre-assembled cabling		No
Degree of protection (IP), front side		IP20
Degree of protection (NEMA)		Other
Width	mm	90
Height	mm	97
Depth	mm	132
Width in number of modular spacings		