



Miniature Circuit Breakers PLS6-DC for direct current application (MW)

SG/E211



Description

- High-quality miniature circuit breakers for DC-applications
- Contact position indicator red green
- Guide for secure terminal connection
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories can be mounted subsequently
- Rated currents up to 50 A
- Tripping Characteristic C
- Rated breaking capacity 10 kA according to IEC/EN 60947-2
- Up to 250 V DC per pole

Miniature Circuit Breakers PLS6-DC for direct current application (MW)

Rated current	Туре	Article No.	Units per
I _n (A)	Designation		package

10 kA, Characteristic C

G45311



TU KA, Characteristic			
1-pole			
1	PLS6-C1-DC	243115	12/120
2	PLS6-C2-DC	243116	12/120
3	PLS6-C3-DC	243117	12/120
4	PLS6-C4-DC	243118	12/120
6	PLS6-C6-DC	243119	12/120
10	PLS6-C10-DC	243120	12/120
13	PLS6-C13-DC	243121	12/120
16	PLS6-C16-DC	243122	12/120
20	PLS6-C20-DC	243123	12/120
25	PLS6-C25-DC	243124	12/120
32	PLS6-C32-DC	243125	12/120
40	PLS6-C40-DC	243126	12/120
50	PLS6-C50-DC	243127	12/120

SG55411



0 1		
2-pole		
1	PLS6-C1/2-DC	243128 1/60
2	PLS6-C2/2-DC	243129 1/60
3	PLS6-C3/2-DC	243130 1/60
4	PLS6-C4/2-DC	243131 1/60
6	PLS6-C6/2-DC	243132 1/60
10	PLS6-C10/2-DC	243133 1/60
13	PLS6-C13/2-DC	243134 1/60
16	PLS6-C16/2-DC	243135 1/60
20	PLS6-C20/2-DC	243136 1/60
25	PLS6-C25/2-DC	243137 1/60
32	PLS6-C32/2-DC	243138 1/60
40	PLS6-C40/2-DC	243139 1/60
50	PLS6-C50/2-DC	243140 1/60

Miniature Circuit Breakers PLS6-DC for direct current application (MW) - Technical Data

Specifications | Miniature Circuit Breakers PLS6-DC

Description

- High selectivity between MCB and back-up fuse due to low let-through energy
- · Compatible with standard busbar
- Twin-purpose terminal (lift/open-mouthed) above and below
- Busbar positioning optionally above or below
- Meets the requirements of insulation co-ordination, distance between contacts ≥ 4 mm, for secure isolation
- Rated breaking capacity 10 kA according to IEC/EN 60947
- Rated voltage to 250 V (per pole), τ = 4 ms

 Take into account polarity 	•	Take	into	account	polarity	/!
--	---	------	------	---------	----------	----

Accessories:		
Auxiliary switch for subsequent installation	ZP-IHK	286052
	ZP-WHK	286053
Tripping signal switch for subsequent installation	ZP-NHK	248437
Remote control and automatic switching device	Z-FW/LP	248296
Shunt trip release	ZP-ASA/	248438, 248439
Undervoltage release	Z-USA/	248288-248291
Additional terminal 35 mm ²	BB-UL-TEPA/35	169823
Switching interlock	Z-IS/SPE-1TE	274418

		PLS6-DC
Electrical		
Design according to		IEC/EN 60947-2
Current test marks as printed onto the device		
Rated voltage DC		1-2 A types: 220 V (per pole)
		3-50 A types: 250 V (per pole)
Rated frequency		50/60 Hz
Rated breaking capacity according to IEC/EN 60947-2		10 kA
Characteristic		С
Back-up fuse		max. 100 A gL
Selectivity class		3
Rated impulse withstand voltage	U_{imp}	4 kV (1.2/50 μs)
Endurance		
electrical components		≥ 4,000 switching operations
mechanical components		≥ 20,000 switching operations
Line voltage connection		at will (above/below)
Mechanical		
Frame size		45 mm
Device height		80 mm
Device width		17.5 mm per pole (1MU)
Mounting		quick fastening with 3 lock-in positions on DIN rail IEC/EN 60715
Degree of protection		IP20
Upper and lower terminals		open-mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Terminal capacity		1-25 mm ²
Terminal torque		2-2.4 Nm
Busbar thickness		0.8 - 2 mm
Mounting		independent of position
Operation temperature		-25°C to +55°C
Storage- and transport temperature		-40°C up to +60°C

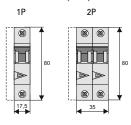
Miniature Circuit Breakers PLS6-DC for direct current application (MW) - Technical Data

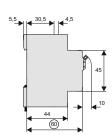
Connection diagrams





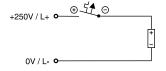
Dimensions (mm)

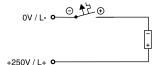




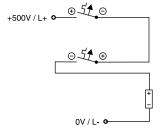
Connection examples

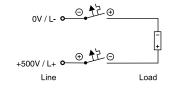
Connection example at 250 V=, 1-pole





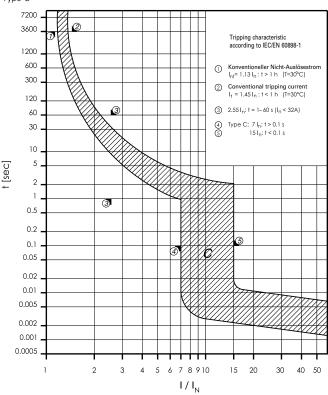
Connection example at 500 V=, 2-pole





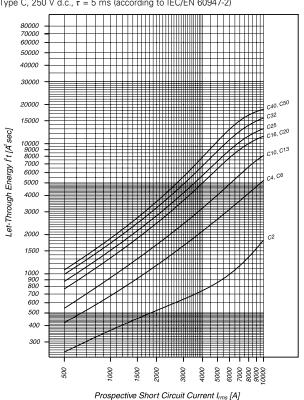
Only if the fault case 'Electrically conductive connection between line side and load side' can be definitely excluded.

Tripping characteristic PLS6-DC



Let-through Energy PLS6-DC

Type C, 250 V d.c., τ = 5 ms (according to IEC/EN 60947-2)



Eaton's electrical business is a global leader with deep regional application expertise in power distribution and circuit protection; power quality, backup power and energy storage; control and automation; life safety and security; structural solutions; and harsh and hazardous environment solutions. Through end-to-end services, channel and an integrated digital platform & insights Eaton is powering what matters across industries and around the world, helping customers solve their most critical electrical power management challenges.

For more information, visit **Eaton.com**.



Eaton Industries (Austria) GmbH Scheydgasse 42 1210 Vienna Austria

Eaton EMEA Headquarters Route de la Longeraie 7 1110 Morges, Switzerland

© 2022 Eaton All Rights Reserved Publication No. CA019067EN Article number 302781-MK February 2022 Changes to the products, to the information contained in this document, and to prices are reserved; as are errors and omissions. Only order confirmations and technical documentation by Eaton is binding. Photos and pictures also do not warrant a specific layout or functionality. Their use in whatever form is subject to prior approval by Eaton. The same applies to trademarks (especially Eaton, Moeller, and Cutler-Hammer). The Terms and Conditions of Eaton apply, as referenced on Eaton Internet pages and Eaton order confirmations.

Eaton is a registered trademark.

All other trademarks are property of their respective owners.

Follow us on social media to get the latest product and support information.







