

# Protective Devices Miniature Circuit Breakers with Plug-in Terminals at the output side PLI



Catalog



*Powering Business Worldwide*

SG33911



## Description

- Contact position indicator red - green
- Two plug-in terminals at the output side
- Single-wire lines can be connected without tools
- Plug-in terminals can be opened conveniently by means of a screwdriver
- Guide for secure terminal connection below
- 3-position DIN rail clip, permits removal from existing busbar system
- Comprehensive range of accessories can be mounted subsequently
- Rated currents up to 16 A
- Tripping characteristics B, C, D
- Rated breaking capacity 10 kA according to IEC/EN 60898-1

### Miniature Circuit Breakers with Plug-in Terminals at the output side PLI

Rated current $I_n$ (A)	Type Designation	Article No.	Units per package
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#### 10 kA, Characteristic B

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#### 1-pole

2	PLI-B2/1	101245	12/120
4	PLI-B4/1	101246	12/120
6	PLI-B6/1	101247	12/120
8	PLI-B8/1	101248	12/120
10	PLI-B10/1	101249	12/120
13	PLI-B13/1	101250	12/120
16	PLI-B16/1	101251	12/120

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#### 1+N-pole 2 MU

2	PLI-B2/1N	101266	1/60
4	PLI-B4/1N	101267	1/60
6	PLI-B6/1N	101268	1/60
8	PLI-B8/1N	101269	1/60
10	PLI-B10/1N	101270	1/60
13	PLI-B13/1N	101271	1/60
16	PLI-B16/1N	101272	1/60

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#### 2-pole

2	PLI-B2/2	101287	1/60
4	PLI-B4/2	101288	1/60
6	PLI-B6/2	101289	1/60
8	PLI-B8/2	101290	1/60
10	PLI-B10/2	101291	1/60
13	PLI-B13/2	101292	1/60
16	PLI-B16/2	101293	1/60

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#### 3-pole

2	PLI-B2/3	101308	1/40
4	PLI-B4/3	101309	1/40
6	PLI-B6/3	101310	1/40
8	PLI-B8/3	101311	1/40
10	PLI-B10/3	101312	1/40
13	PLI-B13/3	101313	1/40
16	PLI-B16/3	101314	1/40

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#### 3+N-pole

2	PLI-B2/3N	101329	1/30
4	PLI-B4/3N	101330	1/30
6	PLI-B6/3N	101331	1/30
8	PLI-B8/3N	101332	1/30
10	PLI-B10/3N	101333	1/30
13	PLI-B13/3N	101334	1/30
16	PLI-B16/3N	101335	1/30

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#### 4-pole

2	PLI-B2/4	101350	1/30
4	PLI-B4/4	101351	1/30
6	PLI-B6/4	101352	1/30
8	PLI-B8/4	101353	1/30
10	PLI-B10/4	101354	1/30
13	PLI-B13/4	101355	1/30
16	PLI-B16/4	101356	1/30



Miniature Circuit Breakers with Plug-in Terminals at the output side PLI

Rated current $I_n$ (A)	Type Designation	Article No.	Units per package
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**10 kA, Characteristic C**

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**1-pole**

2	PLI-C2/1	101252	12/120
4	PLI-C4/1	101253	12/120
6	PLI-C6/1	101254	12/120
8	PLI-C8/1	101255	12/120
10	PLI-C10/1	101256	12/120
13	PLI-C13/1	101257	12/120
16	PLI-C16/1	101258	12/120

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**1+N-pole 2 MU**

2	PLI-C2/1N	101273	1/60
4	PLI-C4/1N	101274	1/60
6	PLI-C6/1N	101275	1/60
8	PLI-C8/1N	101276	1/60
10	PLI-C10/1N	101277	1/60
13	PLI-C13/1N	101278	1/60
16	PLI-C16/1N	101279	1/60

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**2-pole**

2	PLI-C2/2	101294	1/60
4	PLI-C4/2	101295	1/60
6	PLI-C6/2	101296	1/60
8	PLI-C8/2	101297	1/60
10	PLI-C10/2	101298	1/60
13	PLI-C13/2	101299	1/60
16	PLI-C16/2	101300	1/60

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**3-pole**

2	PLI-C2/3	101315	1/40
4	PLI-C4/3	101316	1/40
6	PLI-C6/3	101317	1/40
8	PLI-C8/3	101318	1/40
10	PLI-C10/3	101319	1/40
13	PLI-C13/3	101320	1/40
16	PLI-C16/3	101321	1/40

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**3+N-pole**

2	PLI-C2/3N	101336	1/30
4	PLI-C4/3N	101337	1/30
6	PLI-C6/3N	101338	1/30
8	PLI-C8/3N	101339	1/30
10	PLI-C10/3N	101340	1/30
13	PLI-C13/3N	101341	1/30
16	PLI-C16/3N	101342	1/30







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**4-pole**

2	PLI-C2/4	101357	1/30
4	PLI-C4/4	101358	1/30
6	PLI-C6/4	101359	1/30
8	PLI-C8/4	101360	1/30
10	PLI-C10/4	101361	1/30
13	PLI-C13/4	101362	1/30
16	PLI-C16/4	101363	1/30

### Miniature Circuit Breakers with Plug-in Terminals at the output side PLI

	Rated current $I_n$ (A)	Type Designation	Article No.	Units per package
<b>10 kA, Characteristic D</b>				
 <p>SG11511</p>	<b>1-pole</b>			
	2	PLI-D2/1	101259	12/120
	4	PLI-D4/1	101260	12/120
	6	PLI-D6/1	101261	12/120
	8	PLI-D8/1	101262	12/120
	10	PLI-D10/1	101263	12/120
	13	PLI-D13/1	101264	12/120
16	PLI-D16/1	101265	12/120	
 <p>SG20011</p>	<b>1+N-pole 2 MU</b>			
	2	PLI-D2/1N	101280	1/60
	4	PLI-D4/1N	101281	1/60
	6	PLI-D6/1N	101282	1/60
	8	PLI-D8/1N	101283	1/60
	10	PLI-D10/1N	101284	1/60
	13	PLI-D13/1N	101285	1/60
16	PLI-D16/1N	101286	1/60	
 <p>SG19511</p>	<b>2-pole</b>			
	2	PLI-D2/2	101301	1/60
	4	PLI-D4/2	101302	1/60
	6	PLI-D6/2	101303	1/60
	8	PLI-D8/2	101304	1/60
	10	PLI-D10/2	101305	1/60
	13	PLI-D13/2	101306	1/60
16	PLI-D16/2	101307	1/60	
 <p>SG33911</p>	<b>3-pole</b>			
	2	PLI-D2/3	101322	1/40
	4	PLI-D4/3	101323	1/40
	6	PLI-D6/3	101324	1/40
	8	PLI-D8/3	101325	1/40
	10	PLI-D10/3	101326	1/40
	13	PLI-D13/3	101327	1/40
16	PLI-D16/3	101328	1/40	
 <p>SG19211</p>	<b>3+N-pole</b>			
	2	PLI-D2/3N	101343	1/30
	4	PLI-D4/3N	101344	1/30
	6	PLI-D6/3N	101345	1/30
	8	PLI-D8/3N	101346	1/30
	10	PLI-D10/3N	101347	1/30
	13	PLI-D13/3N	101348	1/30
16	PLI-D16/3N	101349	1/30	
 <p>SG39011</p>	<b>4-pole</b>			
	2	PLI-D2/4	101364	1/30
	4	PLI-D4/4	101365	1/30
	6	PLI-D6/4	101366	1/30
	8	PLI-D8/4	101367	1/30
	10	PLI-D10/4	101368	1/30
	13	PLI-D13/4	101369	1/30
16	PLI-D16/4	101370	1/30	

**Specifications | Miniature Circuit Breakers with Plug-in Terminals at the output side PLI**

**Description**

- High selectivity between MCB and back-up fuse due to low let-through energy
- Plug-in terminals above (at the output side)
- Two terminal points per pole
- Single-wire lines can be connected without tools
- The conductor can be removed from the plug-in terminal and single- or fine-wire lines can be connected by means of a screwdriver DIN 5264 Type A and Type B (maximum blade width 3 mm)
- Twin-purpose terminal (lift/open-mouthed) below
- Compatible with standard busbar below
- Meets the requirements of insulation co-ordination, distance between contacts  $\geq 4$  mm, for secure isolation
- Suitable for applications up to 48 V DC

**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 <sup>2</sup>	BB-UL-TEPA/35	169823
Switching interlock	Z-IS/SPE-1TE	274418

**Technical Data**

		PLI
<b>Electrical</b>		
Design according to		IEC/EN 60898-1
Current test marks as printed onto the device		
Rated voltage	$U_n$	AC: 230/400 V DC: 48 V (per pole)
Rated frequency		50/60 Hz
Rated breaking capacity according to IEC/EN 60898-1	$I_{cn}$	10 kA
Characteristic		B, C, D
Back-up fuse		max. 125 A gL
Selectivity class		3
Rated impulse withstand voltage	$U_{imp}$	4 kV (1.2/50 $\mu$ s)
Endurance electrical components		$\geq 8,000$ switching operations
Line voltage connection		below
<b>Mechanical</b>		
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 terminals		twin plug-in terminals
Lower terminals		open-mouthed/lift terminals
Terminal protection		finger and hand touch safe, DGUV VS3, EN 50274
Upper terminal capacity		1-4 mm <sup>2</sup> , with wire end sleeve 1-2.5 mm <sup>2</sup>
Lower terminal capacity		1-25 mm <sup>2</sup>
Terminal torque		2-2.4 Nm
Busbar thickness		0.8 - 2 mm
Mounting		independent of position

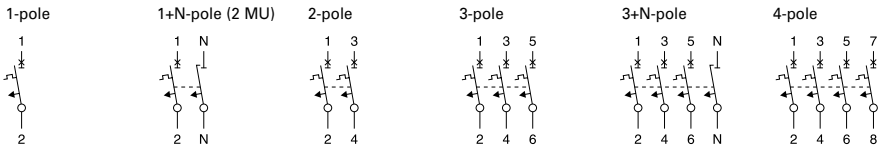
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## Protective Devices

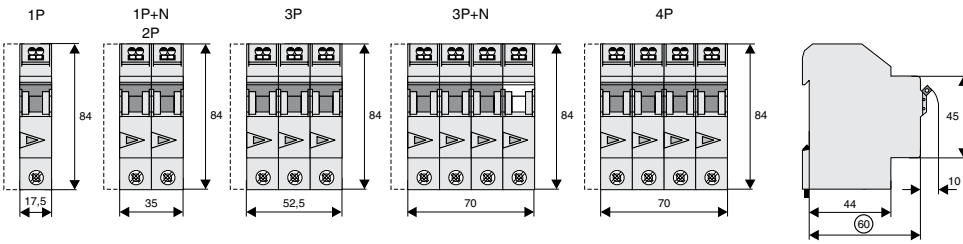
xPole

Miniature Circuit Breakers with Plug-in Terminals at the output side PLI - Technical Data

### Connection diagrams



### Dimensions (mm)



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