

SENTRON Switching and Protection Devices – Switch Disconnectors

Introduction

Overview



Type		3LD20	3LD21	3LD22	3LD25	3LD27	3LD28
3LD main and EMERGENCY-STOP switches from 16 A to 125 A							
Rated uninterrupted current I_u							
at 35 °C ambient temperature	A	16	25	32	63	100	125
Rated operational voltage							
U_e	V	690	690	690	690	690	690
AC-3 motor load switches							
Operational switching of individual motors							
• At 220 ... 240 V	kW	3.0	4.0	5.5	11.0	18.5	22.0
• At 380 ... 440 V	kW	5.5	7.5	9.5	18.5	30.0	37.0
• At 660/690 V	kW	5.5	7.5	9.5	15.0	22.0	30.0
AC-23A main control switches, maintenance switches							
Frequent, but not operational switching of single motors							
• At 220 ... 240 V	kW	4.0	5.0	6.0	11.0	18.5	22.0
• At 380 ... 440 V	kW	7.5	9.5	11.5	22.0	37.0	45.0
• At 660/690 V	kW	7.5	9.5	11.5	18.5	30.0	37.0
Switch versions							
Front mounting							
• Central			✓	✓	✓	--	--
• Four-hole		✓	✓	✓	✓	✓	✓
Floor mounting							
• Central		✓	✓	✓	✓	--	--
• Four-hole		✓	✓	✓	✓	✓	✓
Distribution board mounting							
		✓	✓	✓	✓	✓	✓
Molded-plastic enclosures							
• Metric screwed glands		✓	✓	✓	✓	✓	✓
Switch accessories							
4th pole (neutral conductor) (leading switch-on, delayed switch-off)		✓	✓	✓	✓	✓	✓
N terminals		✓	✓	✓	✓	✓	✓
PE-ground terminals		✓	✓	✓	✓	✓	✓
Auxiliary contact elements							
• 1 NO + 1 NC		✓	✓	✓	✓	✓	✓

✓ Available

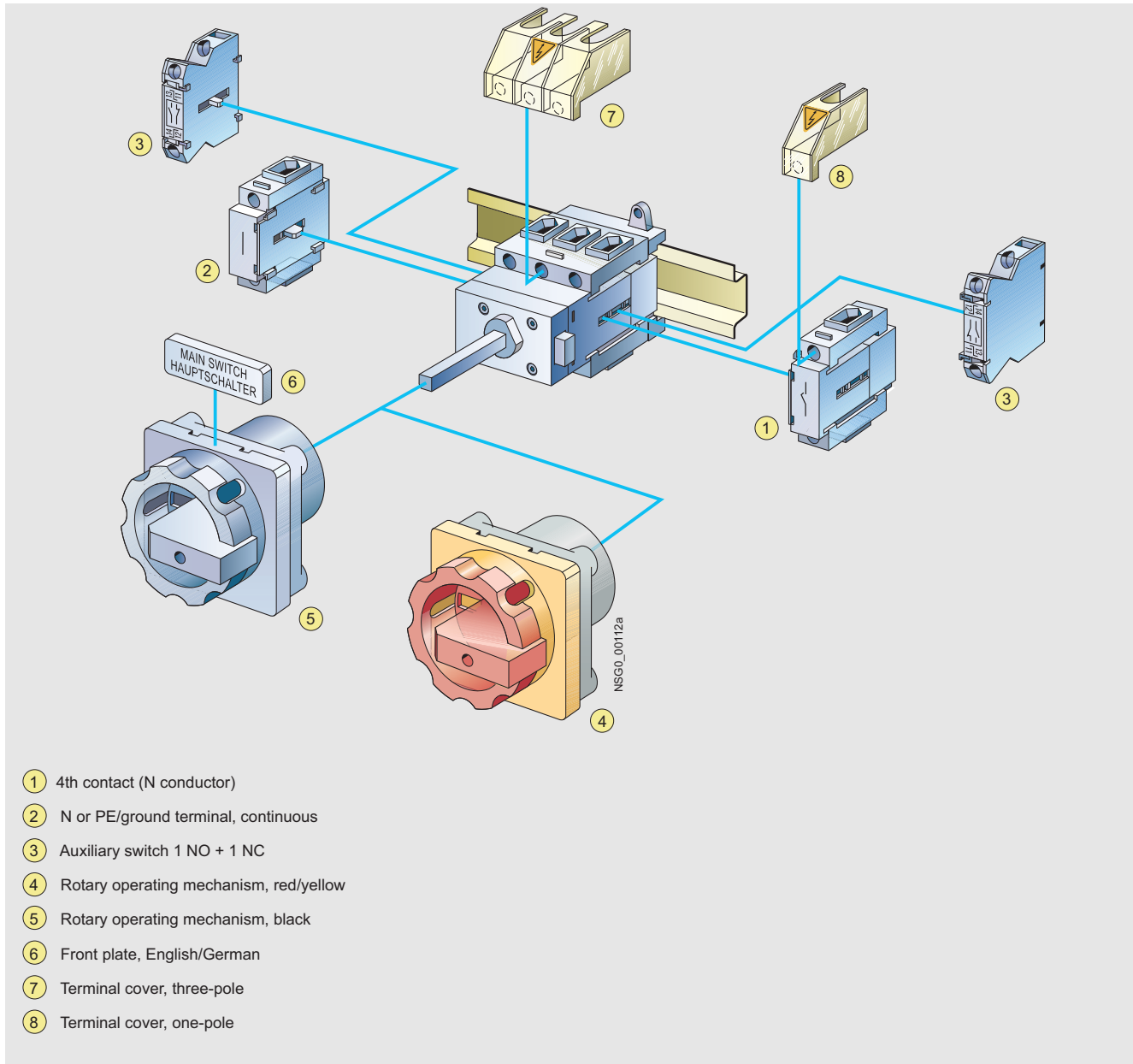
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3KA, 3KE, 3LD Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 125 A

General data

Overview



Application

The 3LD switches are used for switching main and auxiliary circuits, but also for switching induction motors and other loads during maintenance and repair work.

They are manually operated switch disconnectors according to IEC 60947-3/VDE 0660 Part 107 (EN 60947-3) and comply with the conditions for switch disconnectors.

The 3LD can be used as

- ON-OFF switch
- EMERGENCY-STOP switch
- Main control switch according to EN 60204-1

In EN 60204-1 (VDE 0113 Part 1), main control switches are called "mains isolating devices", while EMERGENCY-STOP switches are termed "devices for emergency shutdown". Maintenance personnel can protect themselves against unauthorized startup with padlocks (up to three can be fitted).


3LD main control and EMERGENCY-STOP switches are approved according to UL 508.

3KA, 3KE, 3LD Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 125 A

Front mounting

Selection and ordering data

Number and version of the contacts	Rated data at 50 ... 60 Hz 380 ... 440 V	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			
									Main contact elements	Auxiliary contact elements	P/AC-3
								kg			
Main control and EMERGENCY-STOP switches with rotary operating mechanism <ul style="list-style-type: none"> • Lockable in 0 position with up to max. 3 padlocks • Degree of protection at front side IP65 • Front plate <ul style="list-style-type: none"> - 3LD2 0, 3LD2 1, 3LD2 2: 67 mm × 67 mm - 3LD2 5 to 3LD2 8: 90 mm × 90 mm. 											
Four-hole mounting											
 3LD2 203-0TK53	3	--	5.5	7.5	16	▶	3LD2 003-0TK..	1	1 unit	103	0.207
			7.5	9.5	25	▶	3LD2 103-0TK..	1	1 unit	103	0.206
			9.5	11.5	32	▶	3LD2 203-0TK..	1	1 unit	103	0.206
	3 + N	--	18.5	22	63	▶	3LD2 504-0TK..	1	1 unit	103	0.424
			30	37	100	▶	3LD2 704-0TK..	1	1 unit	103	0.501
			37	45	125	A	3LD2 804-0TK..	1	1 unit	103	0.503
			5.5	7.5	16	▶	3LD2 003-1TL..	1	1 unit	103	0.217
			7.5	9.5	25	A	3LD2 103-1TL..	1	1 unit	103	0.243
			9.5	11.5	32	A	3LD2 203-1TL..	1	1 unit	103	0.243
	3 + N	--	18.5	22	63	A	3LD2 504-1TL..	1	1 unit	103	0.424
			30	37	100	▶	3LD2 704-0TK.. + ¹⁾	1	1 unit	103	0.501
						▶	3LD9 280-0B	1	1 unit	103	0.101
37			45	125	A	3LD2 804-0TK.. + ¹⁾	1	1 unit	103	0.503	
					▶	3LD9 280-0B	1	1 unit	103	0.101	
Center-hole mounting Ø 22.5 mm											
3	--	5.5	7.5	16	A	3LD2 054-0TK..	1	1 unit	103	0.215	
		7.5	9.5	25	A	3LD2 154-0TK..	1	1 unit	103	0.215	
		9.5	11.5	32	A	3LD2 254-0TK..	1	1 unit	103	0.214	
		18.5	22	63	A	3LD2 555-0TK..	1	1 unit	103	0.443	
		5.5	7.5	16	A	3LD2 054-1TL..	1	1 unit	103	0.230	
3 + N	--	7.5	9.5	25	A	3LD2 154-1TL..	1	1 unit	103	0.256	
		9.5	11.5	32	A	3LD2 254-1TL..	1	1 unit	103	0.260	
		18.5	22	63	A	3LD2 555-0TK.. + ¹⁾	1	1 unit	103	0.443	
					▶	3LD9 250-0BA	1	1 unit	103	0.079	

Actuators

Black
Red/yellow (EMERGENCY-STOP)

¹⁾ 4th contact element as neutral conductor to be ordered separately, see Accessories.


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3KA, 3KE, 3LD Switch Disconnectors

3LD Main Control and EMERGENCY-STOP Switches up to 125 A

Molded-plastic enclosures

Selection and ordering data

Number and version of the contacts	Base terminal	Rated data at		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*	PG	Weight per PU approx.			
		50 ... 60 Hz	380 ... 440 V										
Main contact elements	Auxiliary contact elements		P/AC-23A	I_u									
			kW	A						kg			
Main control and EMERGENCY-STOP switches													
<ul style="list-style-type: none"> • With N and/or PE-ground terminals • Lockable in 0 position with up to max. 3 padlocks • Degree of protection IP65 • Rotary operating mechanisms with center-hole mounting • For floor-mounted auxiliary switches 													
Metric screwed glands													
 <p>3LD2 164-0TB53</p>	3	--	PE + N	7.5	16	A	3LD2 064-0TB..	1	1 unit	103	0.463		
			PE + N	9.5	25	A	3LD2 164-0TB..	1	1 unit	103	0.463		
			PE + N	11.5	32	A	3LD2 264-0TB..	1	1 unit	103	0.465		
		3 + N	--	PE + N	22	63	A	3LD2 565-0TB..	1	1 unit	103	0.906	
				PE + N	37	100	A	3LD2 766-0TB..	1	1 unit	103	1.890	
				PE + N	45	125	A	3LD2 866-0TB..	1	1 unit	103	1.890	
		3 + N	--	PE	7.5	16	A	3LD2 064-1TC..	1	1 unit	103	0.453	
				PE	9.5	25	A	3LD2 164-1TC..	1	1 unit	103	0.487	
				PE	11.5	32	C	3LD2 264-1TC..	1	1 unit	103	0.500	
				PE	22	63	C	3LD2 565-1TC..	1	1 unit	103	0.960	
				PE + N	37	100	A	3LD2 766-0TB.. + ¹⁾	1	1 unit	103	1.890	
				PE + N	45	125	A	3LD2 866-0TB.. + ¹⁾	1	1 unit	103	1.890	
		3	1 NO + 1 NC	N-type	PE	7.5	16	A	3LD2 064-1GP..	1	1 unit	103	0.507
					PE	9.5	25	A	3LD2 164-1GP..	1	1 unit	103	0.501
					PE	11.5	32	A	3LD2 264-1GP..	1	1 unit	103	0.488
PE					22	63	A	3LD2 565-1GP..	1	1 unit	103	0.935	
PE					37	100	A	3LD2 766-1GP..	1	1 unit	103	1.838	
PE					45	125	A	3LD2 866-1GP..	1	1 unit	103	1.843	
3 + N	1 NO + 1 NC	PE	PE	7.5	16	A	3LD2 064-1TC.. + ²⁾	1	1 unit	103	0.453		
			PE	9.5	25	A	3LD2 164-1TC.. + 3LD9 200-5C	1	1 unit	103	0.487		
			PE	11.5	32	C	3LD2 264-1TC.. + 3LD9 200-5C	1	1 unit	103	0.500		
			PE	22	63	C	3LD2 565-1TC.. + 3LD9 200-5C	1	1 unit	103	0.960		
			PE	37	100	A	3LD2 766-1GP.. + 3LD9 280-0C	1	1 unit	103	1.838		
			PE	45	125	A	3LD2 866-1GP.. + 3LD9 280-0C	1	1 unit	103	1.843		

Actuators

Black
Red/yellow (EMERGENCY-STOP)

- 1) 4th contact element as neutral conductor to be ordered separately, see Accessories for floor mounting.
- 2) Please order auxiliary switches 1 NO + 1 NC separately, see Accessories.

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