

# DRX™ 125

thermal magnetic MCCBs from 15 to 125 A



Technical characteristics and curves p. 7 to 9

For switching, control, isolation and protection of low-voltage electrical lines  
Can be fitted with auxiliaries (p. 10)

Supplied with:

- M5 terminal for  $I_n \leq 50$  A and M8 range for  $I_n > 50$  A
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)

Fixed thermal and magnetic

Conform to IEC 60947-2, in compliance with NEMA

Pack	Cat.Nos		DRX 125
			<b>Breaking capacity Icu 10 kA (415 V~)</b>
	3P	4P	$I_n$
1	0 270 00	0 270 10	15 A
1	0 270 01	0 270 11	20 A
1	0 270 02	0 270 12	25 A
1	0 270 03	0 270 13	30 A
1	0 270 04	0 270 14	40 A
1	0 270 05	0 270 15	50 A
1	0 270 06	0 270 16	60 A
1	0 270 39	0 270 29	63 A
1	0 270 07	0 270 17	75 A
1	0 272 55 <sup>2</sup>	0 272 56 <sup>2</sup>	80 A
1	0 270 08	0 270 18	100 A
1	0 270 09	0 270 19	125 A
			<b>Breaking capacity Icu 20 kA (415 V~)</b>
			$I_n$
1	0 270 20	0 270 30	15 A
1	0 270 21	0 270 31	20 A
1	0 270 22	0 270 32	25 A
1	0 270 23	0 270 33	30 A
1	0 270 24	0 270 34	40 A
1	0 270 25	0 270 35	50 A
1	0 270 26	0 270 36	60 A
1	0 272 20	0 272 22	63 A
1	0 270 27	0 270 37	75 A
1	0 272 57 <sup>2</sup>	0 272 58 <sup>2</sup>	80 A
1	0 270 28	0 270 38	100 A
1	0 272 21	0 272 23	125 A
			<b>Breaking capacity Icu 36 kA (415 V~)</b>
	1P	2P	$I_n$
1	0 270 40 <sup>1</sup>	0 270 50	15 A
1	0 270 41 <sup>1</sup>	0 270 51	20 A
1	0 270 42 <sup>1</sup>	0 270 52	25 A
1	0 270 43 <sup>1</sup>	0 270 53	30 A
1	0 270 44 <sup>1</sup>	0 270 54	40 A
1	0 270 45 <sup>1</sup>	0 270 55	50 A
1	0 270 46 <sup>1</sup>	0 270 56	60 A
1	0 270 47 <sup>1</sup>	0 270 57	75 A
1	0 270 48 <sup>1</sup>	0 270 58	100 A
	3P	4P	$I_n$
1	0 270 60	0 270 70	15 A
1	0 270 61	0 270 71	20 A
1	0 270 62	0 270 72	25 A
1	0 270 63	0 270 73	30 A
1	0 270 64	0 270 74	40 A
1	0 270 65	0 270 75	50 A
1	0 270 66	0 270 76	60 A
1	0 272 24	0 272 26	63 A
1	0 270 67	0 270 77	75 A
1	0 272 59 <sup>2</sup>	0 272 60 <sup>2</sup>	80 A
1	0 270 68	0 270 78	100 A
1	0 272 25	0 272 27	125 A

Pack	Cat.Nos		Mounting on rail
20	0 271 89		Plates for fixing DRX 125 on DIN rail For 1P For 2P For 3P and 4P
12	0 271 90		
6	0 271 87		
			<b>Rotary handles</b>
1	0 271 76		<b>Direct on DRX</b> Standard (grey)
1	0 271 77		<b>Vari-depth handle</b> Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism Standard (grey)
			<b>Connection accessories</b>
			<b>Insulating shields</b> Used to isolate the connection between each pole Set of 2 Set of 3
1	3P	4P	
1	0 271 81	0 271 82	
			<b>Sealable terminal shields</b> Set of 2
1	0 271 91		
1	3P	4P	
1	0 271 83	0 271 84	Set of 2
			<b>Cage terminals</b> Up to 50 A (inclusive) From 60 to 100 A For 125 A Set of 60 pieces up to 50 A (inclusive) Set of 60 pieces from 60 to 100 A Set of 60 pieces 125 A
1	3P	4P	
1	0 271 70	0 271 72	
1	0 271 71	0 271 73	
1	0 272 52	0 272 53	
1	0 271 92		
1	0 271 93		
1	0 272 54		
			<b>Padlock for DRX 125 and 250</b>
1	0 271 80		For locking on "OFF" position (up to 3 locks)

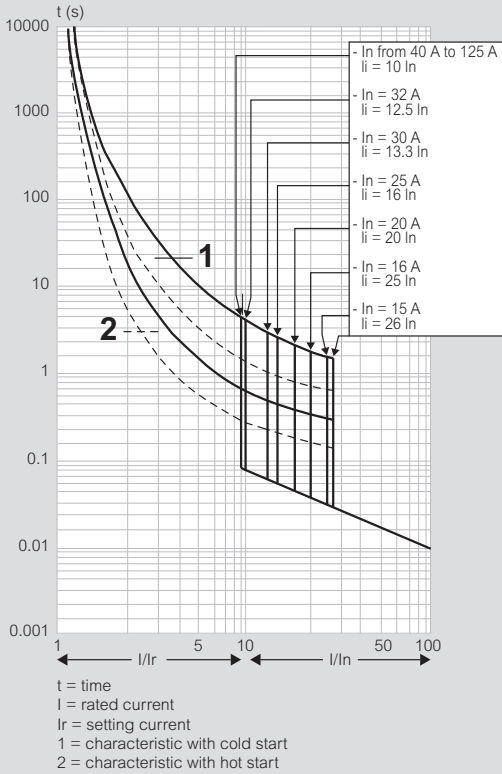
1: Icu 25 kA (240 V~) for 1P  
2: Available from January 2015

# DRX™ 125

## technical characteristics and curves

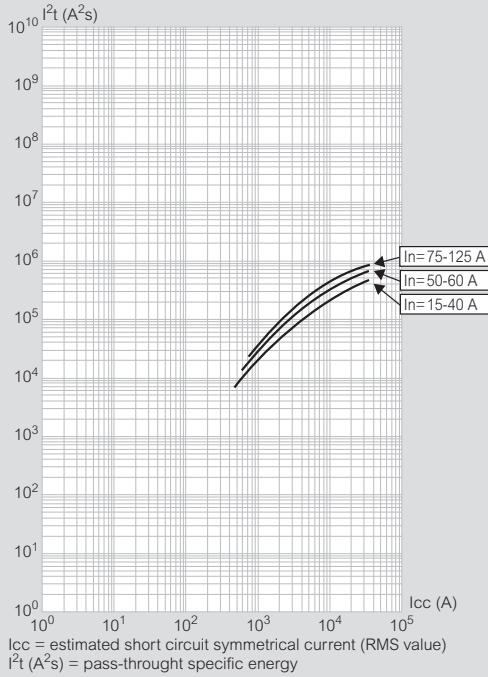
### Curves

**DRX 125**  $I_{max} = 125\text{ A}$  from 10 kA to 36 kA 3P - 4P at 415 V~



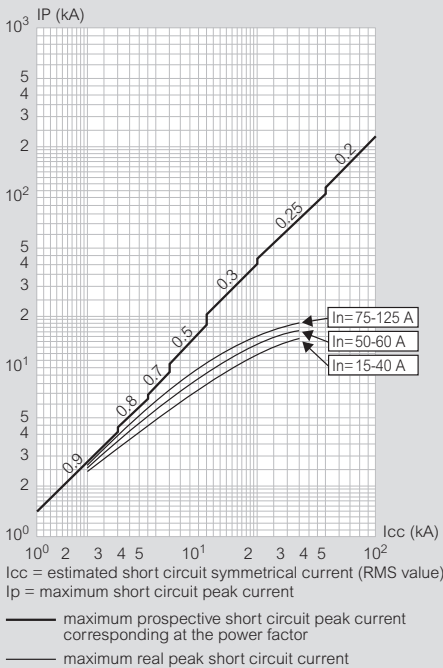
### Pass-through specific energy characteristics

**DRX 125**  $I_{max} = 125\text{ A}$  from 10 kA to 36 kA 3P - 4P at 415 V~



### Current limitation

**DRX 125**  $I_{max} = 125\text{ A}$  from 10 kA to 36 kA 3P - 4P at 415 V~

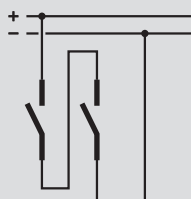


### Technical characteristics

	DRX 10 kA	DRX 20 kA	DRX 36 kA <sup>(1)</sup>	DRX 36 kA	DRX 36 kA
<b>Number of poles</b>	3P - 4P	3P - 4P	1P	2P	3P - 4P
<b>Nominal current <math>I_n</math> (A)</b>	15-125	15-125	15-100	15-100	15-125
<b>Neutral protection for 4P version (%)</b>	100	100	100	100	100
<b>Rated insulation voltage <math>U_i</math> (V)</b>	690	690	690	690	690
<b>Rated impulse withstand current <math>I_{imp}</math> (kV)</b>	6	6	6	6	6
<b>Rated operating voltage (50/60 Hz) <math>U_e</math> (V)</b>	550	550	550	550	550
<b>Ultimate breaking capacity <math>I_{cu}</math> (kA) IEC 60947-2</b>	110/130 V~	50	75	50	75
	220/240 V~	25	40	25	60
	277 V~	-	-	15	50
	380/415 V~	10	20	10	36
	440/460 V~	10	15	-	30
<b>Ultimate breaking capacity <math>I_{cu}</math> (kA) NEMA AB-1</b>	480/550 V~	7,5	10	-	20
	600 V~	5	5	-	10
	125 V=	10 <sup>(2)</sup>	10 <sup>(2)</sup>	10	20 <sup>(2)</sup>
	250 V=	5 <sup>(2)</sup>	5 <sup>(2)</sup>	5	10 <sup>(2)</sup>
	240 V~	25	40	25	100
<b>Standard breaking capacity <math>I_{cs}</math> (% <math>I_{cu}</math>)</b>	480 V~	7,5	10	-	20
	600 V~	5	5	-	10
<b>Category of use</b>	A	A	A	A	A
<b>Suitable for isolation</b>	YES	YES	YES	YES	YES
<b>Endurance (cycles)</b>	<b>mechanical</b>	25000	25000	25000	25000
	<b>electrical at <math>I_n</math></b>	8000	8000	8000	8000
	<b>electrical at 0.5 <math>I_n</math></b>	10000	10000	10000	10000

1: 1P -  $I_{cu}$  25 kA (220/240 V~)  
 2: 2 poles in series

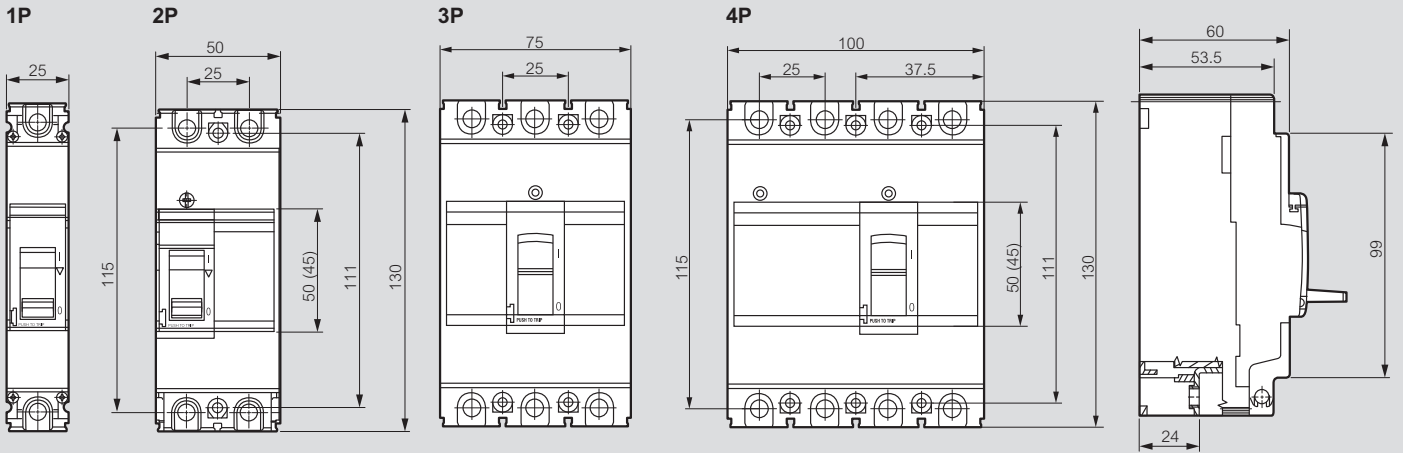
### 2 poles in series



# DRX™ 125

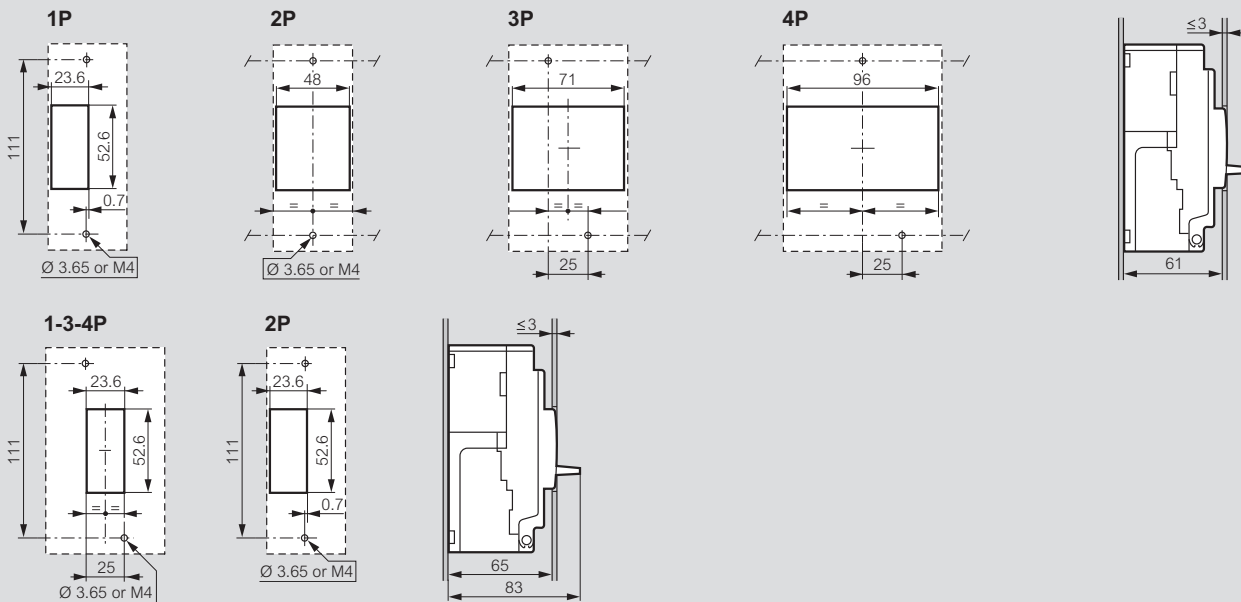
dimensions, mounting principle and connection

## Dimensions



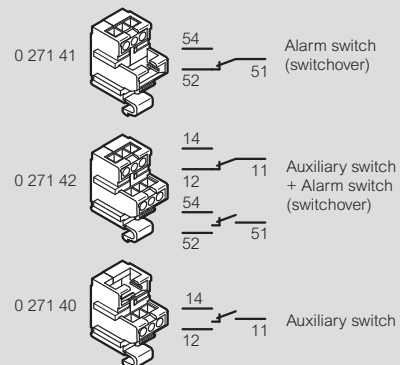
## Mounting principle

### Door cut-out

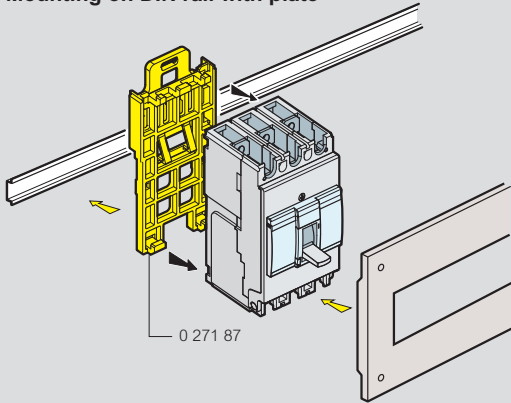


## Auxiliary contacts

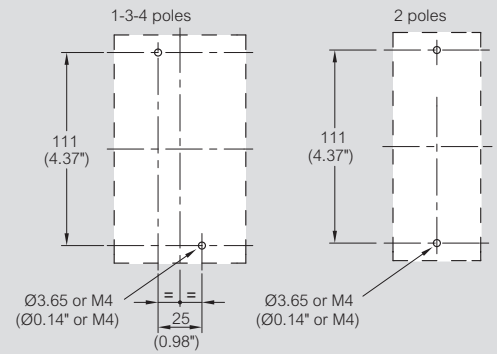
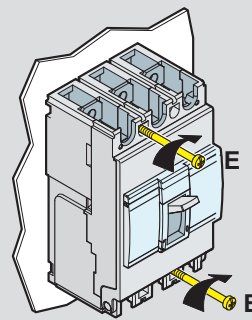
	Voltage (V)	Resistive load (A)
Vac	125	5
	250	5
Vdc	30	5
	50	1
	75	0.75
	125	0.5
250	0.25	
<b>Mechanical endurance (No. of operations)</b>		5 x 10 <sup>6</sup>
<b>Temperature (°C)</b>		- 40 to 85 °C



### Mounting on DIN rail with plate



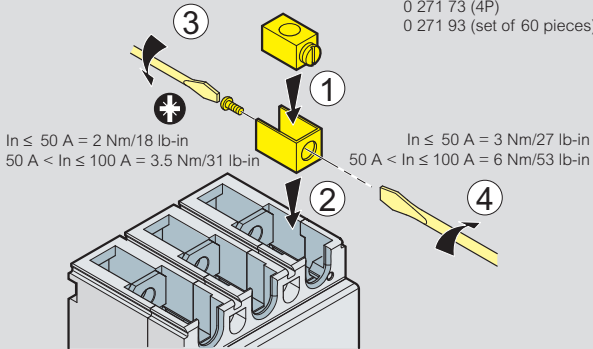
### Fixing on plate



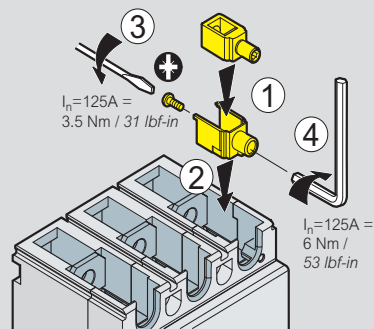
## Connection

### Connection via cable $I_n \leq 100 \text{ A}$

- $I_n \leq 50 \text{ A} = 0 271 70 (3P)$
- $0 271 72 (4P)$
- $0 271 92 (\text{set of } 60 \text{ pieces})$
- $50 \text{ A} < I_n \leq 100 \text{ A} = 0 271 71 (3P)$
- $0 271 73 (4P)$
- $0 271 93 (\text{set of } 60 \text{ pieces})$



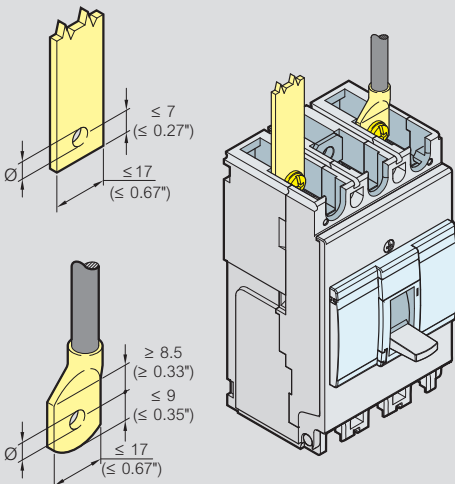
### Connection via cable $I_n = 125 \text{ A}$



DRX ≤ 50 A	50 A < $I_n$ ≤ 100 A	$I_n = 125 \text{ A}$
Flexible 2.5 → 10 mm <sup>2</sup> #14 → #8 AWG	Flexible 10 → 35 mm <sup>2</sup> #8 → #3/2 AWG	Flexible 35 → 50 mm <sup>2</sup> #3/2 → #1/0 AWG
or Solid 2.5 → 16 mm <sup>2</sup> #14 → #6 AWG	Solid 10 → 50 mm <sup>2</sup> #8 → #1/0 AWG	Solid 35 → 50 mm <sup>2</sup> #3/2 → #1/0 AWG

2.5 to 4 mm<sup>2</sup> (#14 to #10 AWG) flexible cables connection via crimped end-bars

### Connection via busbar



$I_n \leq 50 \text{ A}$	$50 \text{ A} < I_n \leq 125 \text{ A}$
Ø 5.5 mm / 0.21"	Ø 8.5 mm / 0.32"

