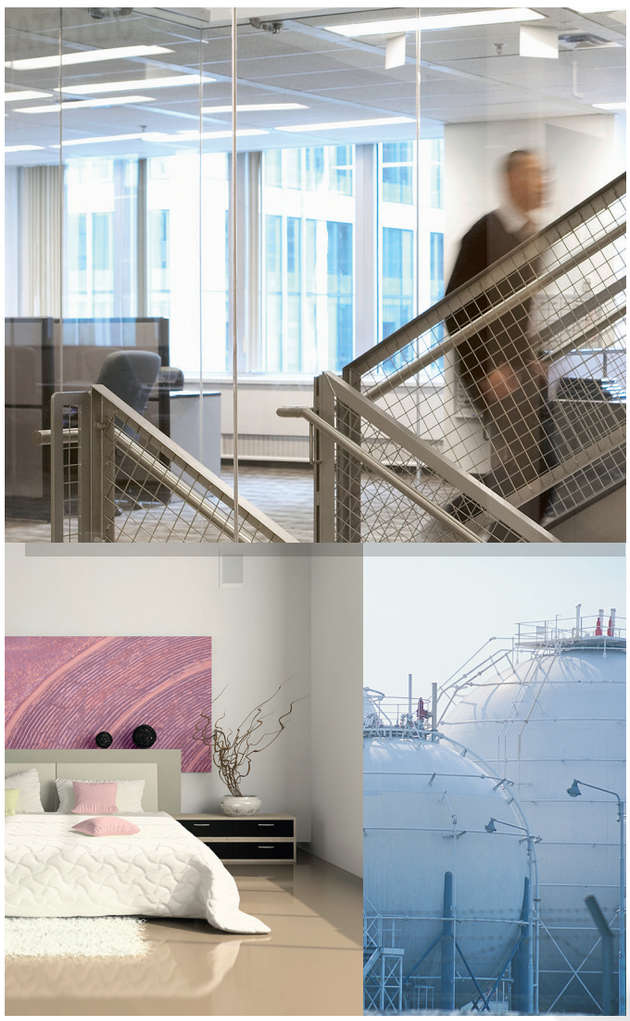
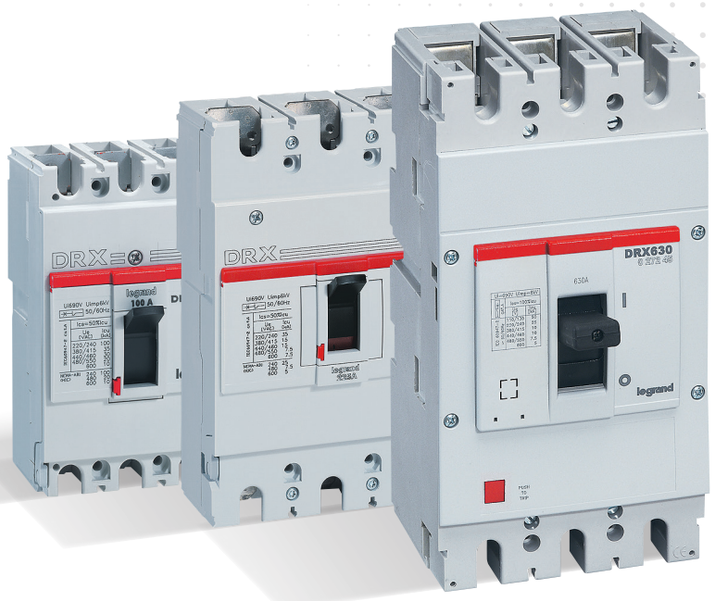


THERMAL MAGNETIC MCCBs

DRX

NOW UP TO 630 A



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THE **GLOBAL SPECIALIST**
IN ELECTRICAL AND DIGITAL BUILDING INFRASTRUCTURES

legrand®

DRX

AN EXTENDED RANGE UP TO 630 A

Designed to work in any type of environment, the DRX range of thermal magnetic circuit breakers has been expanded to meet your essential needs in terms of protecting an electrical installation up to 630 A.

For many years, the robust design of the DRX range has made it the ideal choice for efficiency and economy.

THE RANGE: THERMAL MAGNETIC MCCBs

Mounting
Rated current (In)
Breaking capacity (Icu) at 415 V~
Standard breaking capacity Ics (%Icu)
Number of poles

* From 15 to 100 A

A solution adapted to numerous different sites, whether residential, commercial or even in the industrial sector.
Works in any type of environment, including in extreme temperatures.

THE BENEFITS OF THE DRX RANGE

THE CHOICE
- Three different sizes
- Ratings ranging from 15 to 630 A
- Several breaking capacities between 16 and 50 kA

ROBUST DESIGN
- SEMKO - LOVAG certification
- Compliant with standard IEC 60947-2
- Mechanical endurance up to 25,000 operations

ADAPTABILITY
- An exclusive system to change from the 50 mm standard to the 45 mm DIN standard
- Fixing on DIN rail or plate for DRX 125 and 250
- Wiring via cables or busbars
- Installation in any position
- Suitable for all environments (tropicalisation, pollution, salt corrosion, etc.)
- Operates in AC or DC

NEW

DRX 125

DRX 250

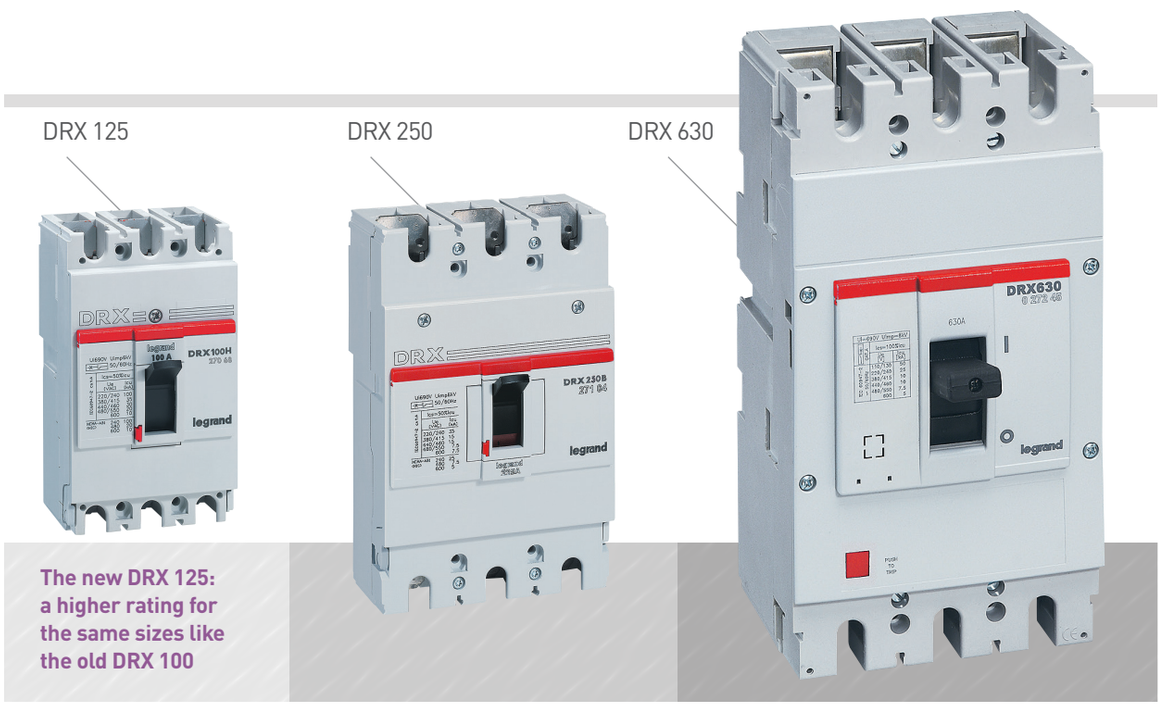
NEW

DRX 630

ON RAIL ⊔ OR ON PLATE			ON RAIL ⊔ OR ON PLATE			ON PLATE	
From 15 to 125 A			**From 125 to 250 A**			**From 320 to 630 A**	
16 kA	20 kA	36 kA	18 kA	25 kA	36 kA	36 kA	50 kA
50	50	50	50	50	50	50	50
3P - 4P	3P - 4P	1P* - 2P* 3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P

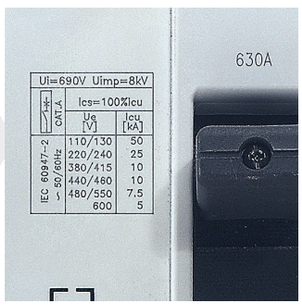
SIMPLICITY
EFFICIENCY
ACCESSIBILITY

With just 3 circuit breaker sizes, the DRX range has it covered when it comes to providing protection against overloads and short-circuits, for sites up to 630 A.

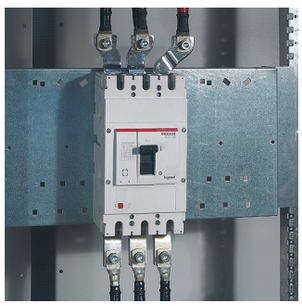


The new DRX 125: a higher rating for the same sizes like the old DRX 100

DRX



EASY IDENTIFICATION
Clear, simple, indelible marking on the front of the MCCB states the:
- thermal magnetic protection
- nominal current
- breaking capacity



EASE OF WIRING
Numerous wiring accessories are available to assist installation.

ROBUST DESIGN
RELIABILITY
SAFETY

With the DRX range, you can guarantee long-term protection for your customers' installations. Its rugged construction ensures continuity of operation even in excessive temperatures.

+70 °C
-25 °C

EXTREME TEMPERATURES
DRX MCCBs operate in extreme temperature conditions, between -25°C and +70°C, and need no temperature derating up to 50°C.

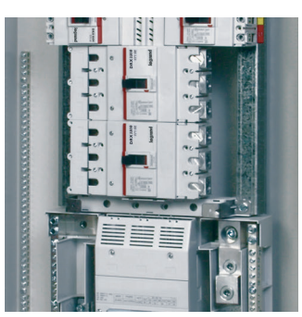
95 % to 55 °C

UTE C63100 GUIDE
Can be used in any type of environment: ropicalisation execution II (all climates, relative humidity between 95% and 55°C).

ROBUST DESIGN
The DRX has proven mechanical endurance up to 25,000 operations.

SAFETY
No live parts are accessible once installed under a faceplate.

ROTARY HANDLE
The rotary handle, is available in direct or external version in order to accommodate different users' habits or the specific constraints affecting each type of site.
It is simple and quick to fit.



HORIZONTAL OPERATION
If required, DRX MCCBs can also be installed horizontally in enclosures like XL3-N 630.

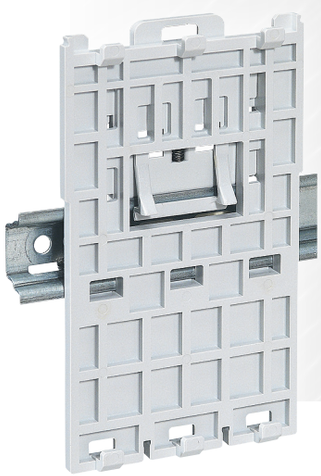
QUALITY LEVEL
Guaranteed by SEMKO certification.
Compliant with standard IEC 60947-2.

≈ / = OPERATES IN AC OR DC

EASE
OF INSTALLATION AND WIRING

The DRX range includes numerous accessories which make wiring and installation easier and allow remote tripping, saving time during installation and enhancing safety.

EASE OF INSTALLATION AND FLEXIBILITY

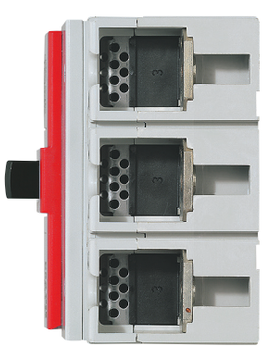


← MCCB easily positioned and removed from the DIN rail with the adaptor (only on DRX 125 and 250).

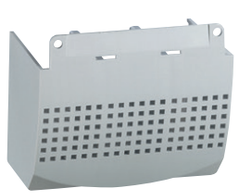
→ An exclusive system to change from the 50 mm standard to the 45 mm DIN standard

A VARIETY OF WIRING SYSTEM OPTIONS

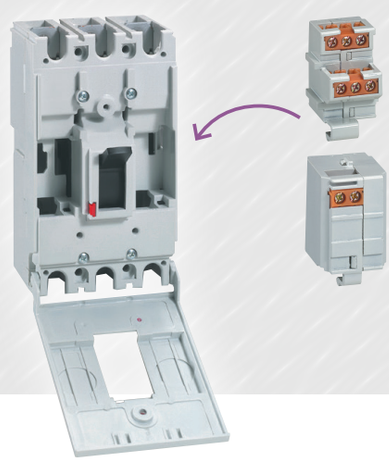
24 mm distance between base and terminal, for mounting on busbars.



Cable spreaders, cage terminals, rear terminals, terminal shields, etc; our wiring accessories cover all your requirements.

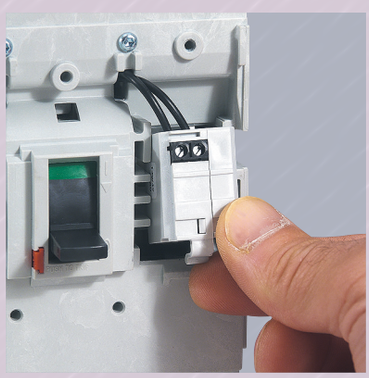


REMOTE TRIPPING FOR SAFETY



← Both the DRX 125 and 250 have a hinge so the front can open and close.

→ The control and signalling auxiliaries simply clip on.



RISK-FREE INTERVENTION

The padlock can be used to lock the handle in "Open" position during maintenance operations and thus avoid any risk of accidents due to mishandling.

The DRX range can also be installed in XL^3-N 125/250 enclosures

DRX™ 125

thermal magnetic MCCBs from 15 to 125 A


0 270 10


0 270 46


0 270 58


0 270 68


0 271 83


0 271 70

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 In ≤ 50 A and M8 range for In > 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

DRX 125

Breaking capacity Icu 10 kA (415 V~)

Pack	Cat.Nos 3P	Cat.Nos 4P	In
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[2]	0 272 56[2]	80 A
1	0 270 08	0 270 18	100 A
1	0 270 09	0 270 19	125 A

Breaking capacity Icu 25 kA (415 V~)

Pack	Cat.Nos 3P	In
1	0 270 90	15 A
1	0 270 91	20 A
1	0 270 92	25 A
1	0 270 93	30 A
1	0 270 94	40 A
1	0 270 95	50 A
1	0 270 96	60 A
1	0 272 61	63 A
1	0 270 97	75 A
1	0 272 62	80 A
1	0 270 98	100 A
1	0 272 63	125 A

Breaking capacity Icu 36 kA (415 V~)

Pack	Cat.Nos 1P	Cat.Nos 2P	In
1	0 270 40[1]	0 270 50	15 A
1	0 270 41[1]	0 270 51	20 A
1	0 270 42[1]	0 270 52	25 A
1	0 270 43[1]	0 270 53	30 A
1	0 270 44[1]	0 270 54	40 A
1	0 270 45[1]	0 270 55	50 A
1	0 270 46[1]	0 270 56	60 A
1	0 270 47[1]	0 270 57	75 A
1	0 270 48[1]	0 270 58	100 A

Pack	Cat.Nos 3P	Cat.Nos 4P	In
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[2]	0 272 60[2]	80 A
1	0 270 68	0 270 78	100 A
1	0 272 25	0 272 27	125 A

Mounting on rail

Pack	Cat.Nos	
20	0 271 89	Plates for fixing DRX 125 on DIN rail For 1P
12	0 271 90	For 2P
6	0 271 87	For 3P and 4P

Rotary handles

Direct on DRX

Pack	Cat.Nos	
1	0 271 76	Standard (grey)

Vari-depth handle

Pack	Cat.Nos	
1	0 271 77	Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism Standard (grey)

Connection accessories

Insulating shields

Used to isolate the connection between each pole

Pack	Cat.Nos 3P	Cat.Nos 4P	
1	0 271 81		Set of 2
1		0 271 82	Set of 3

Sealable terminal shields

Pack	Cat.Nos	
1	0 271 91 (2P)	Set of 2
	0 271 83 (3P) / 0 271 84 (4P)	Set of 2

Pack	Cat.Nos 3P	Cat.Nos 4P	
1	0 271 70	0 271 72	Up to 50 A (inclusive)
1	0 271 71	0 271 73	From 60 to 100 A
1	0 272 52	0 272 53	For 125 A
1	0 271 92		Set of 60 pieces up to 50 A (inclusive)
1	0 271 93		Set of 60 pieces from 60 to 100 A
1	0 272 54		Set of 60 pieces 125 A

Padlock for DRX 125 and 250

Pack	Cat.Nos	
1	0 271 80	For locking on "OFF" position (up to 3 locks)

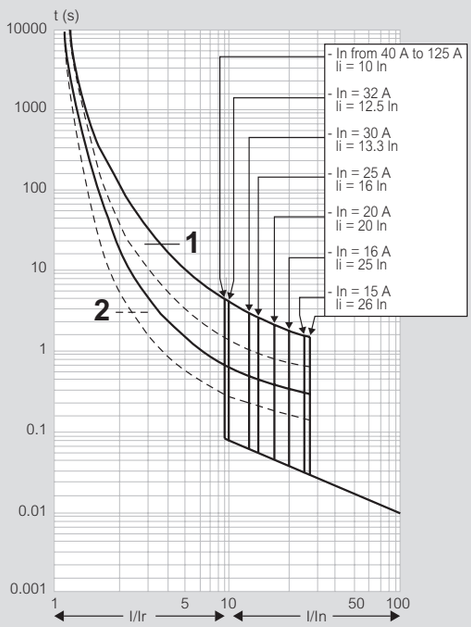
1: Icu 25 kA (240 V~) for 1P
2: Available from January 2015

DRX™ 125

technical characteristics and curves

Curves

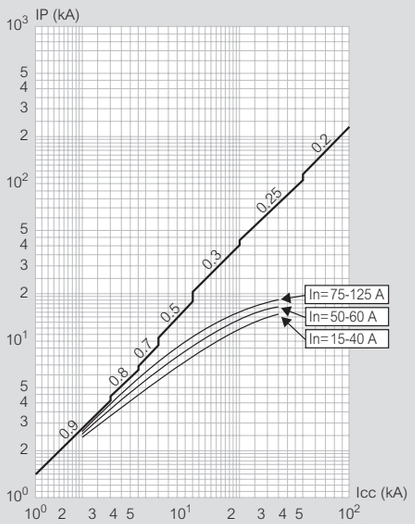
DRX 125 Imax = 125 A from 10 kA to 36 kA 3P - 4P at 415 V~



t = time
I = rated current
Ir = setting current
1 = characteristic with cold start
2 = characteristic with hot start

Current limitation

DRX 125 Imax = 125 A from 10 kA to 36 kA 3P - 4P at 415 V~



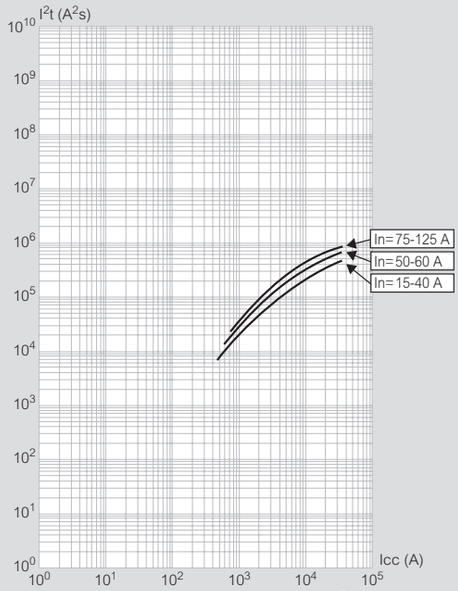
Icc = estimated short circuit symmetrical current (RMS value)
Ip = maximum short circuit peak current

——— maximum prospective short circuit peak current corresponding at the power factor

——— maximum real peak short circuit current

Pass-through specific energy characterictics

DRX 125 Imax = 125 A from 10 kA to 36 kA 3P - 4P at 415 V~



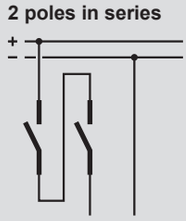
Icc = estimated short circuit symmetrical current (RMS value)
I^2t (A^2s) = pass-throught specific energy

Technical characteristics

		DRX 10 kA	DRX 20 kA	DRX 36 kA(1)	DRX 36 kA	DRX 36 kA
Number of poles		3P - 4P	3P - 4P	1P	2P	3P - 4P
Nominal current In (A)		15-125	15-125	15-100	15-100	15-125
Neutral protection for 4P version (%)		100	100	100	100	100
Rated insulation voltage Ui (V)		690	690	690	690	690
Rated impulse withstand current Uimp (kV)		6	6	6	6	6
Rated operating voltage (50/60 Hz) Ue (V)		550	550	550	550	550
Ultimate breaking capacity Icu (kA) IEC 60947-2	110/130 V~	50	75	50	75	100
	220/240 V~	25	40	25	60	100
	277 V~	-	-	15	50	-
	380/415 V~	10	20	10	36	36
	440/460 V~	10	15	-	30	30
	480/550 V~	7,5	10	-	20	20
	600 V~	5	5	-	10	10
	125 V⎓	10(2)	10(2)	10	20(2)	20(2)
	250 V⎓	5(2)	5(2)	5	10(2)	10(2)
Ultimate breaking capacity Icu (kA) NEMA AB-1	240 V~	25	40	25	100	100
	480 V~	7.5	10	-	20	20
	600 V~	5	5	-	10	10
Standard breaking capacity Ics (% Icu)		50	50	50	50	50
Category of use		A	A	A	A	A
Suitable for isolation		YES	YES	YES	YES	YES
Endurance (cycles)	mechanical	25000	25000	25000	25000	25000
	electrical at In	8000	8000	8000	8000	8000
	electrical at 0.5 In	10000	10000	10000	10000	10000

1: 1P - Icu 25 kA (220/240 V~)
2: 2 poles in series

2 poles in series

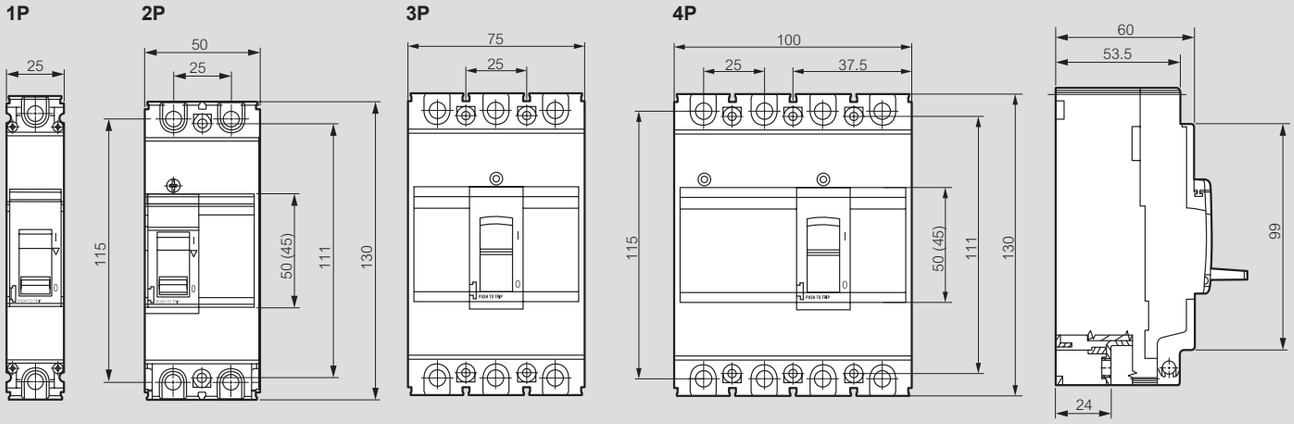


DRX™ 125

dimensions, mounting principle and connection

Dimensions

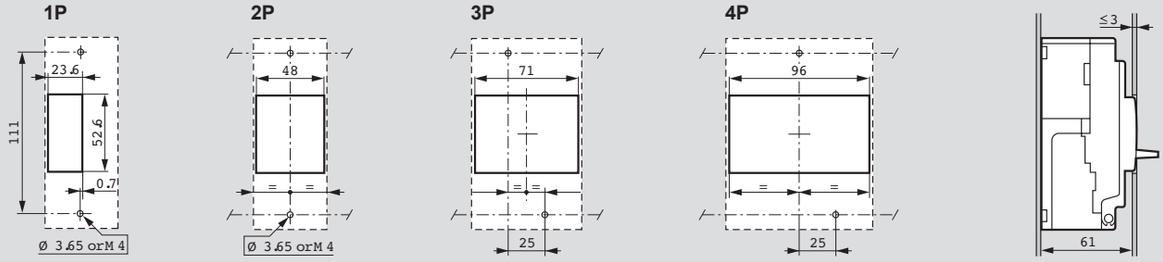
1P 2P 3P 4P



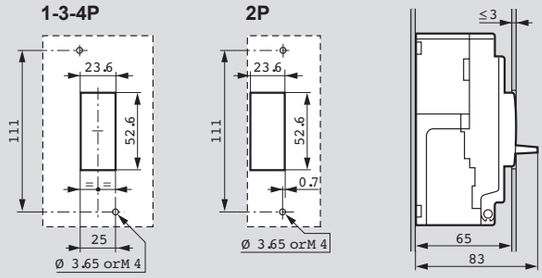
Mounting principle

Door cut-out

1P 2P 3P 4P

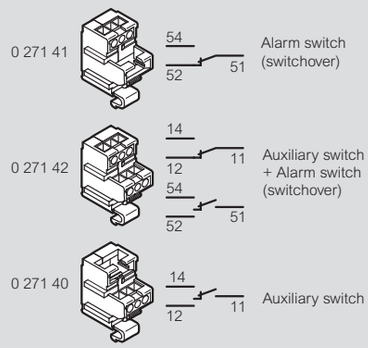


1-3-4P 2P

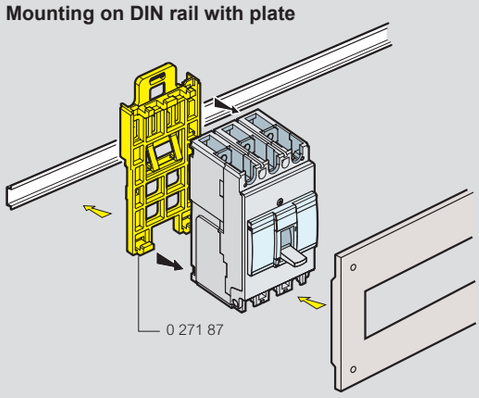


Auxiliary contacts

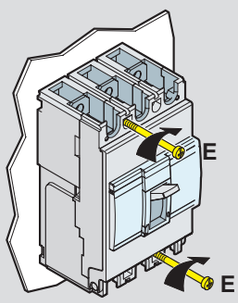
	Voltage (V)	Resistive load (A)
Vac	125	5
	250	5
Vdc	30	5
	50	1
	75	0.75
	125	0.5
	250	0.25
Mechanical endurance (No. of operations)		5 x 10^6
Temperature (°C)		- 40 to 85 °C

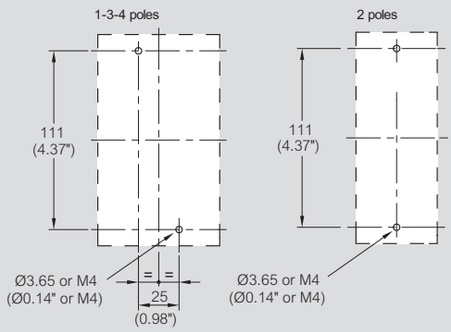


Mounting on DIN rail with plate



Fixing on plate

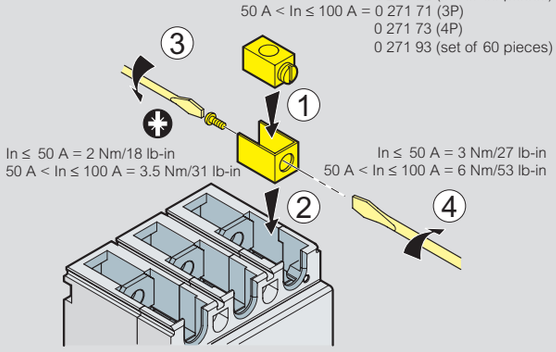




Connection

Connection via cable In ≤ 100 A

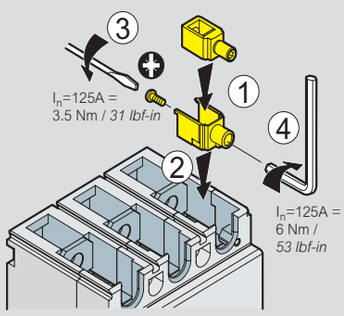
In ≤ 50 A = 0 271 70 (3P)
0 271 72 (4P)
0 271 92 (set of 60 pieces)
50 A < In ≤ 100 A = 0 271 71 (3P)
0 271 73 (4P)
0 271 93 (set of 60 pieces)



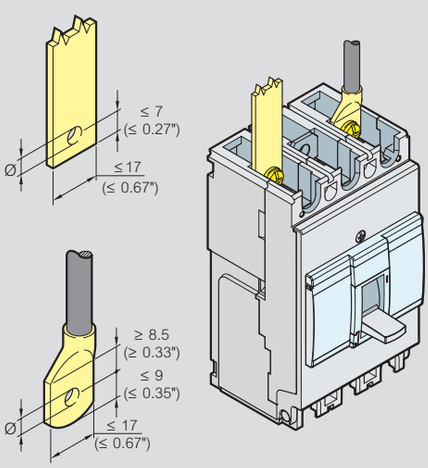
DRX ≤ 50 A	50 A < In ≤ 100 A	In = 125 A
Flexible 2.5 10 mm² #14 #8 AWG or Solid 2.5 16 mm² #14 #6 AWG 12 0.47"	Flexible 10 35 mm² #8 #3/2 AWG Solid 10 50 mm² #8 #1/0 AWG 14 0.55"	Flexible 35 50 mm² #3/2 #1/0AWG Solid 35 50 mm² #3/2 #1/0AWG 14 0.55"

2,5 to 4 mm² (#14 to #10 AWG) flexible cables connection via crimped end-barrels

Connection via cable In = 125 A



Connection via busbar



In ≤ 50 A	50 A < In ≤ 125 A
Ø 5.5 mm / 0.21"	Ø 8.5 mm / 0.32"

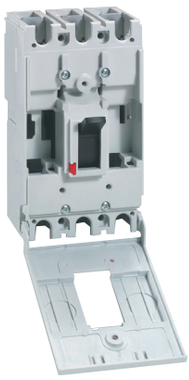
In ≤ 50 A	50 A < In ≤ 125 A	In = 125 A
		

DRX™ 250

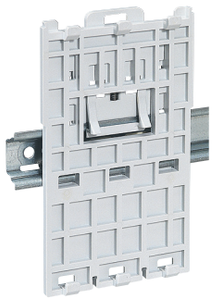
thermal magnetic MCCBs from 125 to 250 A

0 271 06

0 271 04



0 271 12 (captive cover)



0 271 88

0 271 74

0 271 80

Technical characteristics and curves **p. 11 to 13**

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries
Supplied with:
- M8 terminals
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)

Fixed thermal and magnetic
Conform to IEC 60947-2

Pack	Cat.Nos 3P	Cat.Nos 4P	DRX 250
			Breaking capacity Icu 18 kA (415 V~)
			In
1	0 271 00	0 271 06	125 A
1	0 271 01	0 271 07	150 A
1	0 272 28	0 272 29	160 A
1	0 271 02	0 271 08	175 A
1	0 271 03	0 271 09	200 A
1	0 271 04	0 271 10	225 A
1	0 271 05	0 271 11	250 A
			Breaking capacity Icu 25 kA (415 V~)
			In
1	0 271 12	0 271 18	125 A
1	0 271 13	0 271 19	150 A
1	0 272 30	0 272 31	160 A
1	0 271 14	0 271 20	175 A
1	0 271 15	0 271 21	200 A
1	0 271 16	0 271 22	225 A
1	0 271 17	0 271 23	250 A
			Breaking capacity Icu 36 kA (415 V~)
			In
1	0 271 24	0 271 30	125 A
1	0 271 25	0 271 31	150 A
1	0 272 32	0 272 33	160 A
1	0 271 26	0 271 32	175 A
1	0 271 27	0 271 33	200 A
1	0 271 28	0 271 34	225 A
1	0 271 29	0 271 35	250 A

Pack	Cat.Nos	Mounting on rail
1	0 271 88	Plate for fixing DRX 250 on DIN rail

Pack	Cat.Nos	Rotary handles
		Direct on DRX
1	0 271 78	Standard (grey)
		Vari-depth handle
		Comprising: connecting rod, bracket, drilling template, mounting accessories, d ing mechanism
1	0 271 79	Standard (grey)

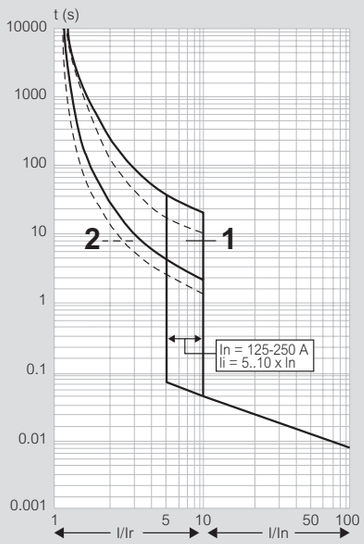
Pack	Cat.Nos 3P	Cat.Nos 4P	Connection accessories
			Insulating shields
			Used to isolate the connection between each pole
1	0 271 81		Set of 2
1		0 271 82	Set of 3
			Sealable terminal shields
1	0 271 85	0 271 86	Set of 2
			Cage terminals
1	0 271 74	0 271 75	Up to 250 A
1	0 271 94		Set of 60 pieces

Pack	Cat.Nos	Padlock for DRX 125 and 250
1	0 271 80	For locking on "OFF" position (up to 3 locks)

Pack	Cat.Nos	Control and signalling auxiliaries for DRX 125 and 250
		Auxiliary contact blocks
		For left-hand side mounting Up to 250 V~ and ⎓
1	0 271 40	Block with 1 auxiliary
1	0 271 41	Block with 1 alarm
1	0 271 42	Block with 1 auxiliary + 1 alarm
		Shunt trips
1	0 271 50	12 V~ and ⎓
1	0 271 51	24 V~ and ⎓
1	0 271 52	48 V~ and ⎓
1	0 271 53	100/130 V~
1	0 271 54	200/277 V~
1	0 271 55	380/480 V~
		Undervoltage releases
1	0 271 60	12 V~ and ⎓
1	0 271 61	24 V~ and ⎓
1	0 271 62	48 V~ and ⎓
1	0 271 68	110 V⎓
1	0 271 63	110/130 V~
1	0 271 64	200/240 V~
1	0 271 67	277 V~
1	0 271 65	380/415 V~
1	0 271 66	440/480 V~

Curves

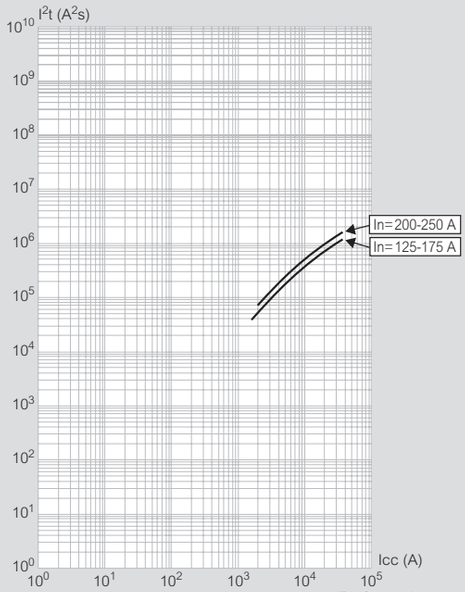
DRX 250 Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~



t = time
Ir = current setting
I_{test} = test curent
In = rated current
Curve n°1 = characteristic with cold start
Curve n°2 = characteristic with hot start

Pass-through specific energy characterictics

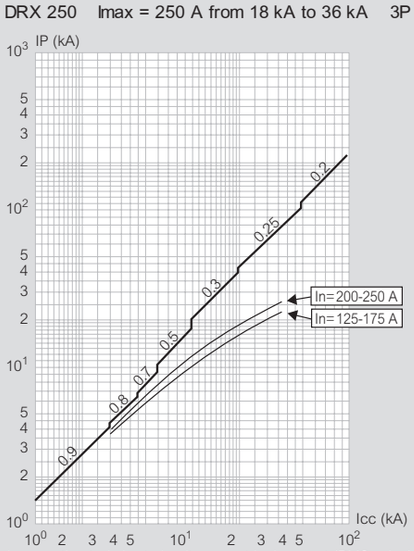
DRX 250 Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~



Icc = estimated short circuit symmetrical current (RMS value)
I^2t (A^2s) = pass-throught specific energy

Current limitation

DRX 250 Imax = 250 A from 18 kA to 36 kA 3P - 4P at 415 V~



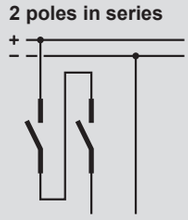
Icc = estimated short circuit symmetrical current (RMS value)
Ip = maximum short circuit peak current
maximum prospective short circuit peak current corresponding at the power factor
maximum real peak short circuit current

Technical characteristics

		DRX - 18 kA	DRX - 25 kA	DRX - 36 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P
Nominal current In (A)		125-250	125-250	125-250
Neutral protection for 4P version (%)		100	100	100
Rated insulation voltage Ui (V)		690	690	690
Rated impulse withstand current Uimp (kV)		6	6	6
Rated operating voltage (50/60 Hz) Ue (V)		600	600	600
Ultimate breaking capacity Icu (kA) IEC 60947-2	**110/130 V~**	35	60	85
	220/240 V~	35	50	65
	380/415 V~	18	25	36
	440/460 V~	15	25	30
	480/550 V~	10	15	20
	600 V~	7,5	10	12
	125 V⎓	10(1)	20(1)	30(1)
	250 V⎓	5(1)	10(1)	15(1)
Ultimate breaking capacity Icu (kA) NEMA AB-1	**240 V~**	35	50	65
	480 V~	10	15	20
	600 V~	7.5	10	15
Standard breaking capacity Ics (% Icu)		50	50	50
Category of use		A	A	A
Suitable for isolation		YES	YES	YES
Endurance (cycles)	**mechanical**	25000	25000	25000
	electrical at In	8000	8000	8000
	electrical at 0.5 In	10000	10000	10000

1: 2 poles in series

2 poles in series

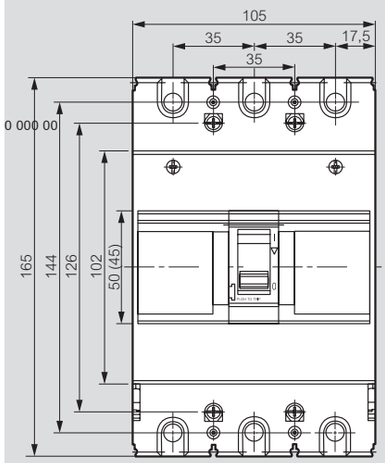


DRX™ 250

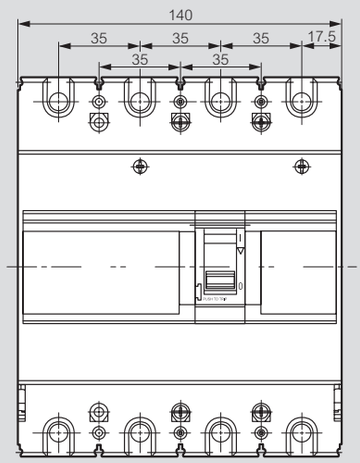
dimensions, mounting principle and connection

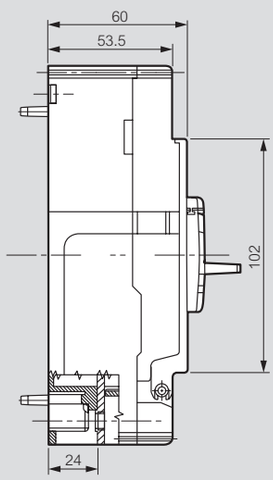
Dimensions

3P



4P

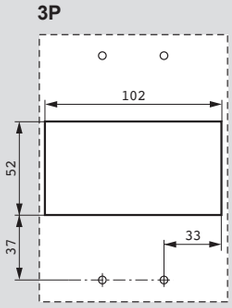




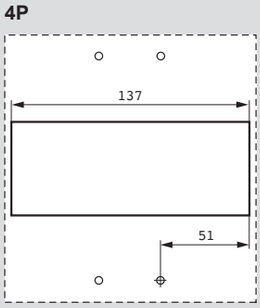
Mounting principle

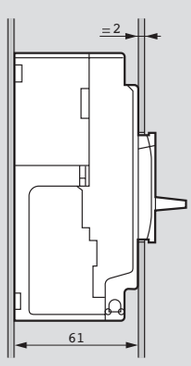
Door cut-out

3P

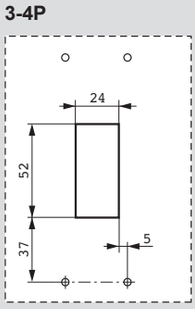


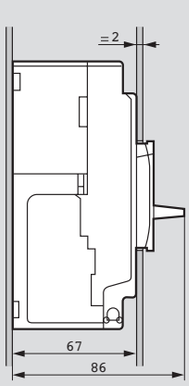
4P



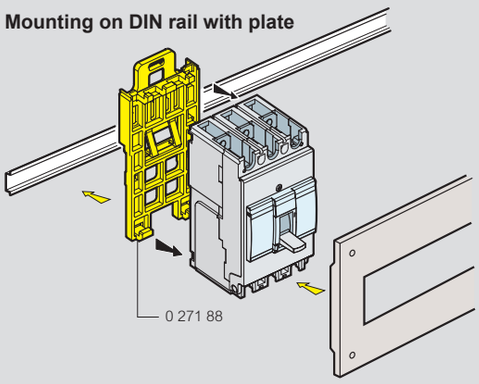


3-4P

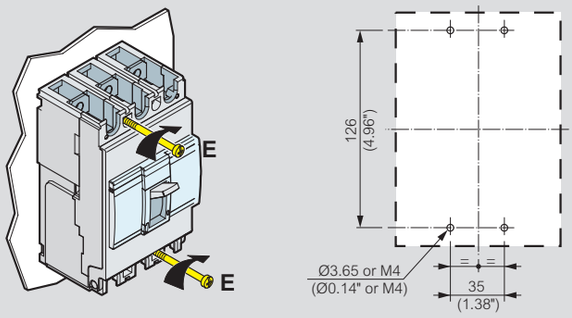




Mounting on DIN rail with plate

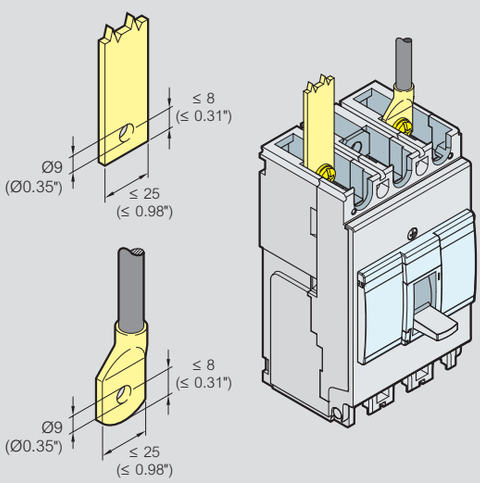


Fixing on plate

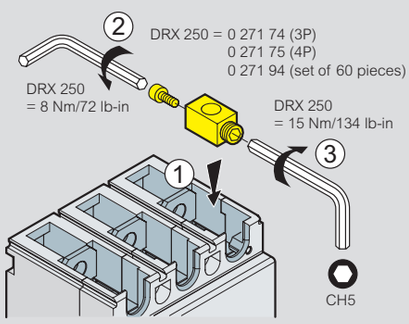


Connection

Connection via busbar



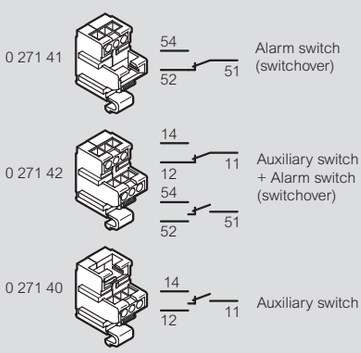
Connection via cable



DRX 250 - 125 to 250 A
Flexible 35 mm² 120 mm² #2 #250 MCM or Solid 35 mm² 150 mm² #2 #300 MCM

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
Mechanical endurance (No. of operations)		5 x 10^6
Temperature (°C)		- 40 to 85 °C



DRX™ 630

thermal magnetic MCCBs from 320 to 630 A


0 272 45


0 272 49


0 262 50


0 262 51


0 262 48


0 263 52

Technical characteristics and curves **p. 15 to 17**

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries
Supplied with:
- M8 terminals
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)

Fixed thermal and magnetic
Conform to IEC 60947-2

DRX 630

Pack	Cat.Nos 3P	Cat.Nos 4P	
			Breaking capacity Icu 36 kA (415 V~)
			In
1	0 272 34	0 272 38	320 A
1	0 272 35	0 272 39	400 A
1	0 272 36	0 272 40	500 A
1	0 272 37	0 272 41	630 A
			Breaking capacity Icu 50 kA (415 V~)
			In
1	0 272 42	0 272 46	320 A
1	0 272 43	0 272 47	400 A
1	0 272 44	0 272 48	500 A
1	0 272 45	0 272 49	630 A

Rotary handles

Pack	Cat.Nos	
		Direct on DRX
1	0 272 50	Standard (grey)
		Vari-depth handle
		Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism
1	0 272 51	Standard (grey)

Connection accessories

Pack	Cat.Nos 3P	Cat.Nos 4P	
			Insulating shields
			Used to isolate the connection between each pole
1	0 262 30		Set of 2 pieces

Pack	Cat.Nos 3P	Cat.Nos 4P	
1	0 262 44	0 262 45	Set of 2

Pack	Cat.Nos 3P	Cat.Nos 4P	
			IP 20 terminal cover
1	4 222 34	4 222 35	Set of two terminal covers
			Cage terminals
1	0 262 50		Set of 4 cage terminals for cables
1	0 262 51		Set of 4 high capacity cage terminals for cables
			Extended front terminals
1	0 262 47		Set of 4 extended front terminals

Connection accessories (continued)

Pack	Cat.Nos 3P	Cat.Nos 4P	
			Spreaders
1	0 262 48	0 262 49	Set of incoming or outgoing spreaders

Pack	Cat.Nos 3P	Cat.Nos 4P	
			Swivel terminals
1	0 263 50	0 263 51	Set of incoming or outgoing swivel terminals

Pack	Cat.Nos 3P	Cat.Nos 4P	
			Flat terminals
1	0 263 52	0 263 53	Set of incoming or outgoing flat terminals

Padlock for DRX 630

Pack	Cat.Nos	
1	0 262 40	For locking on "OFF" position (up to 3 locks)

Control and signalling auxiliaries for DRX 630

For DPX³, DPX³-I and DRX

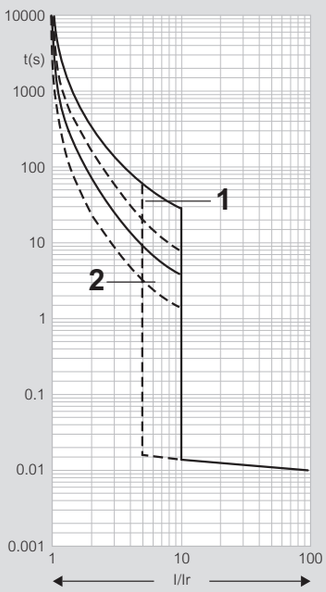
Pack	Cat.Nos	
		Auxiliary contact or fault signal
1	4 210 11	For signalling the state of the contacts or opening of the MCCB on a fault Changeover switch 3 A - 240 V~
		Shunt releases
		Shunt inrrush power 300 V~
		Coil voltage
1	4 222 39	24 V~ and ⎓
1	4 222 40	48 V~ and ⎓
1	4 222 41	110 V~ and ⎓
1	4 222 42	230 V~ and ⎓
1	4 222 43	400 V~ and ⎓
		Undervoltage releases
		Undervoltage power consumption 5 V~
		Coil voltage
1	4 222 44	24 V⎓
1	4 222 45	24 V~
1	4 222 46	48 V~ and ⎓
1	4 222 47	110 V~ and ⎓
1	4 222 48	230 V~ and ⎓
1	4 222 49	400 V~ and ⎓

DRX™ 630

technical characteristics and curves

Curves

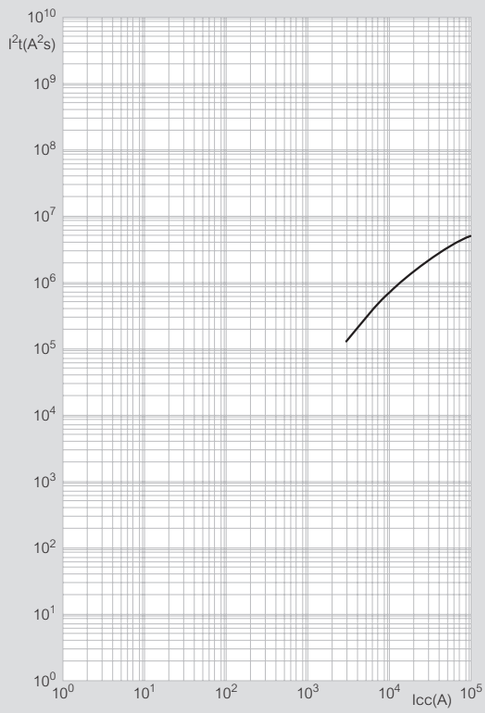
DRX 630 Imax = 630 A from 36kA to 50 kA 3P - 4P



t = time
I = rated current
Ir = setting current
curve number 1 = characteristic with cold start
curve number 2 = characteristic with hot start

Pass-through specific energy characterictics

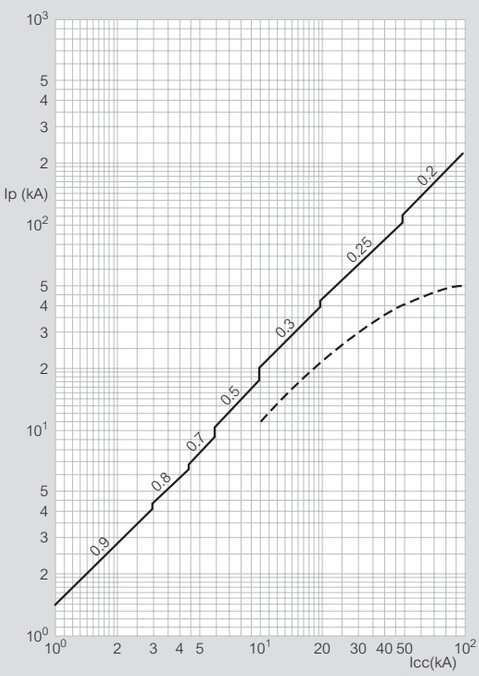
DRX 630 Imax = 630 A from 36kA to 50 kA 3P - 4P at 415 V~



Icc = estimated short circuit symmetrical current (RMS value)
$I^2t(A^2s)$ = pass-through specific energy

Current limitation

DRX 630 Imax = 630 A from 36kA to 50 kA 3P - 4P



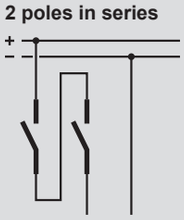
Icc = estimated short circuit symmetrical current (RMS value)
Ip = maximum short circuit peak current
—— maximum prospective short circuit peak current corresponding at the power factor
– – – maximum real peak short circuit current

Technical characteristics

		DRX - 36 kA	DRX - 50 kA
Number of poles		3P - 4P	3P - 4P
Nominal current In (A)		320-630	320-630
Neutral protection for 4P version (%)		100	100
Rated insulation voltage Ui (V)		690	690
Rated impulse withstand current Uimp (kV)		6	6
Rated operating voltage (50/60 Hz) Ue (V)		600	600
Ultimate breaking capacity Icu (kA) IEC 60947-2	220/240 V~	65	100
	380/415 V~	36	50
	440/460 V~	30	40
	480/550 V~	25	30
	125 V⎓	40	42
	250 V⎓	36	38
Ultimate breaking capacity Icu (kA) NEMA AB-1	240 V~	60	80
	480 V~	25	30
	550 V~	25	30
Standard breaking capacity Ics (% Icu)		50	50
Category of use		A	A
Suitable for isolation		YES	YES
Endurance (cycles)	mechanical	25000	25000
	electrical at In	8000	8000
	electrical at 0.5 In	10000	10000

1: 2 poles in series

2 poles in series

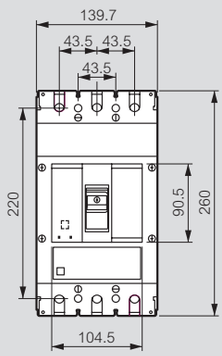


DRX™ 630

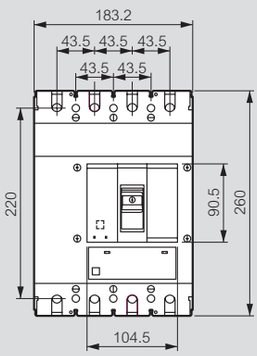
dimensions, mounting principle and connection

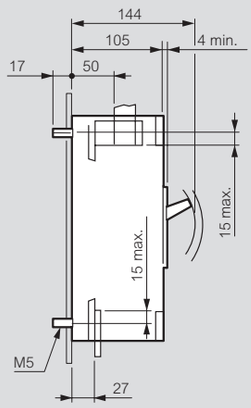
Dimensions

3P

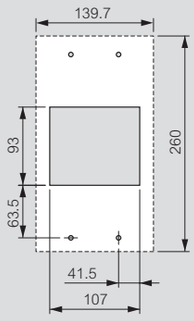


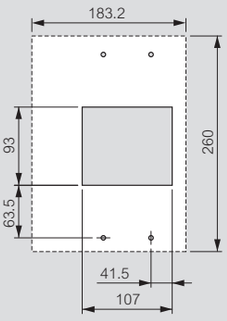
4P

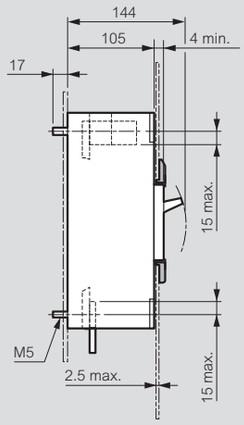




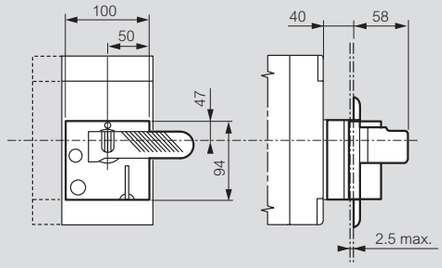
Door cut



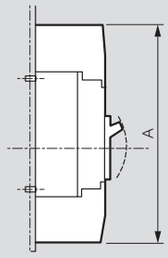




Rotary handle-direct on DPX

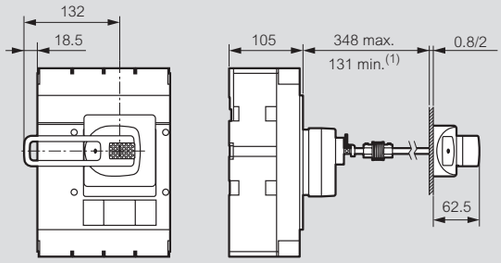


Terminal shields



Rotary handle-vari-depth handle on door

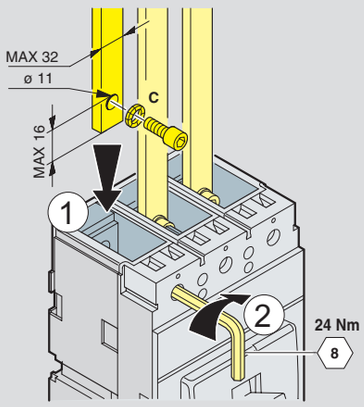
Mounting with flexible seal



1: 75 mm without mechanical system

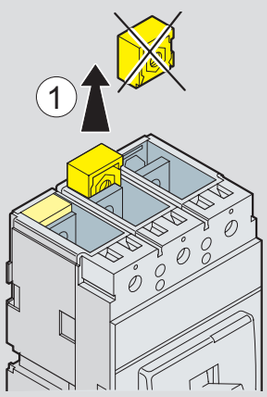
Connection

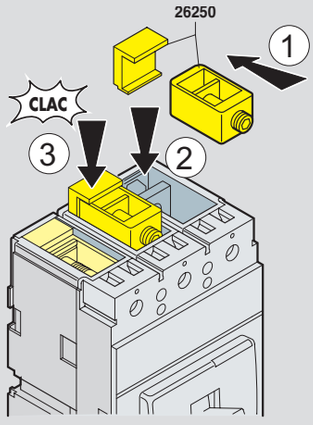
Connection via busbar

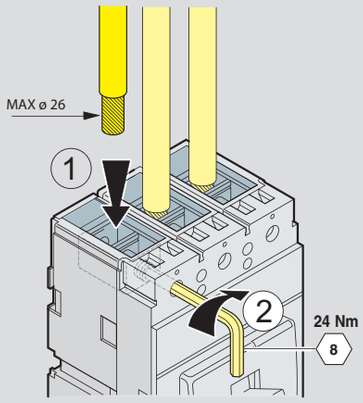


Connection via cable

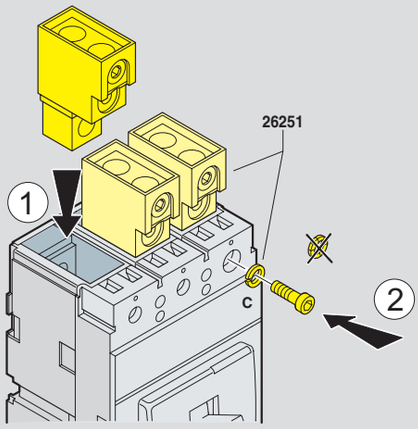
With cage terminals Cat.No 0 262 50

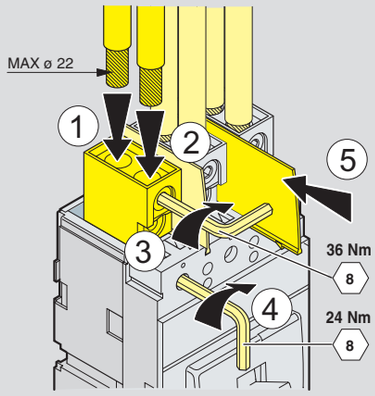






With high capacity cage terminals Cat.No 0 262 51





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