ADJUSTABLE DRX

THE MCCB THAT EASILY FITS YOUR INSTALLATION

CATALOGUE PAGES → INSIDE

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

legrand®

AN ENHANCED OFFER

With the arrival of the new adjustable DRX, Legrand has enhanced its offer of thermal magnetic MCCBs to meet your requirements even more effectively. Designed to extend the existing DRX range, the adjustable version combines simplicity and robustness with safety and reliability.

DRX

- Designed for residential, commercial or industrial applications
- For installations up to 630 A (breaking capacity ⩽ 50 kA) with no specific constraints

Whatever your application, the level of protection required, or your specific budget, Legrand has a reliable solution for you!

ADJUSTABLE DRX

NEW

- Designed for residential, commercial or industrial applications
- For installations up to 630 A (breaking capacity ⩽ 50 kA) requiring a greater degree of flexibility in the choice of trip thresholds to provide more adaptable protection

DPX³

- For installations up to 1600 A (breaking capacity ⩽ 100 kA) requiring high-precision protection, excellent continuity of service, measurement of different electrical values and multiple configurations
- Ensuring scalability and ease of maintenance

THE NEW ADJUSTABLE DRX OFFER

A COMPREHENSIVE RANGE UP TO 630 A

The DRX range of adjustable thermal magnetic circuit breakers has been designed to meet your requirements when it comes to protecting an electrical installation up to 630 A.

The robust design of the DRX range, the adjustable protection, the different accessories for connection and remote tripping have made it the ideal choice in terms of efficiency and affordability.

The right answer in terms of:

CHOICE
- Three different sizes
- Ratings ranging from 16 to 630 A
- Three breaking capacities: 25, 36 and 50 kA

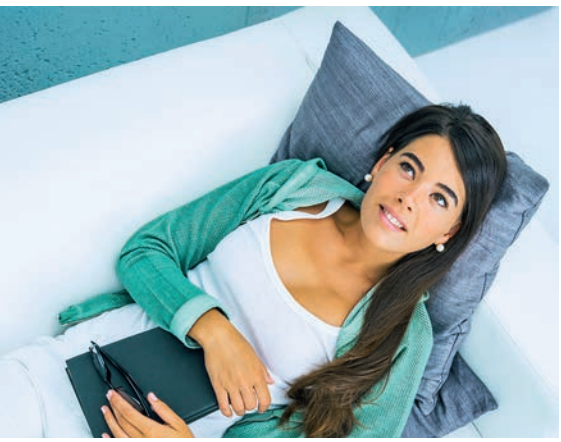
ROBUST DESIGN
- SEMKO - LOVAG certification
- Compliant with standard IEC 60947-2
- Mechanical endurance up to 25,000 operations

ADAPTABILITY
- Fixing on DIN rail or plate for DRX 125 and 250
- Wiring via cables or busbars

THE RANGE OF ADJUSTABLE THERMAL MAGNETIC MCCBs

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

A solution adapted to numerous different sites, whether residential, commercial or even in the industrial sector.

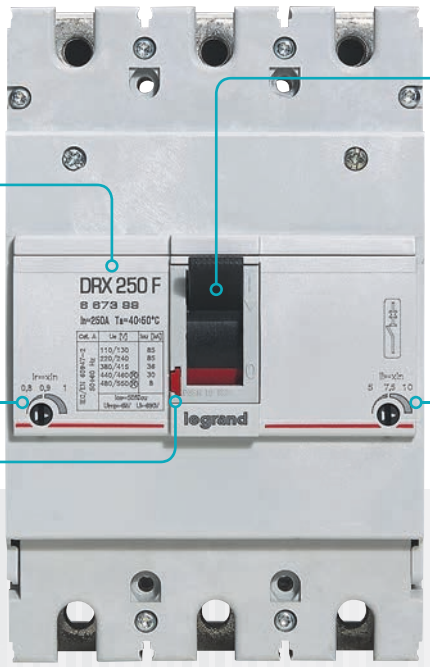


DRX 125		DRX 250		DRX 630	
ON RAIL ⊔ OR ON PLATE		ON RAIL ⊔ OR ON PLATE		ON PLATE	
From 6 to 125 A		**From 125 to 250 A**		**From 320 to 630 A**	
25 kA	36 kA	25 kA	36 kA	36 kA	50 kA
75	50	75	50	100	100
from 0.8 to 1 x In		from 0.8 to 1 x In		from 5 to 10 x In	
fixed at 10 x In		from 5 to 10 x In		from 0.8 to 1 x In	
3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P	3P - 4P

Clear, simple, indelible marking
on the front of the MCCB stating:
- the thermal magnetic protection,
- the nominal current,
- the breaking capacity.

Thermal adjustment:
Ir from 0.8 to 1 x In

Test button



Clear identification of
electrical functions:
- black handle = MCCB
- grey handle = trip-free switch
State of the circuit breaker:
I = On
0 = Off

Magnetic adjustment:
Ii from 5 to 10 x In

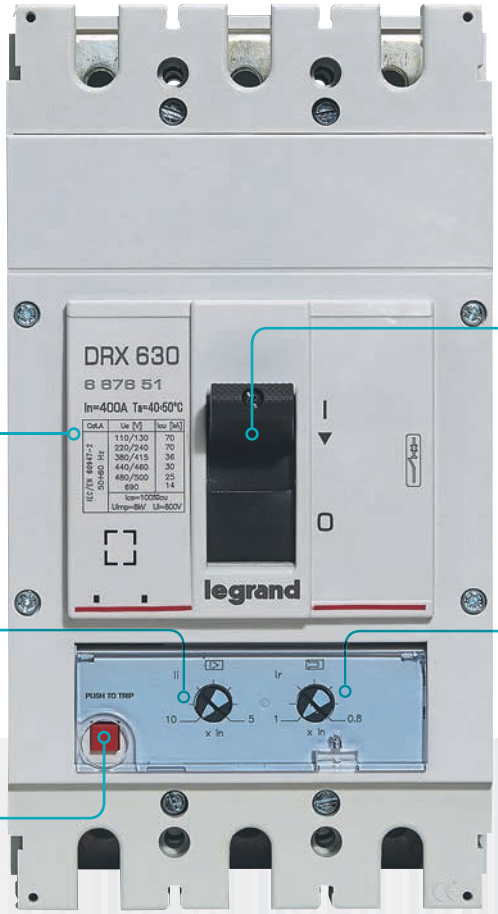
DRX 250

FLEXIBLE SOLUTIONS TO

AN ADJUSTED PROTECTION

3 circuit breakers sizes covering all needs when it comes to providing protection against overloads and short-circuits, for sites up to 630 A.

Possibility to adjust thermal (protection against overloads) and magnetic (protection against short-circuits) tripping levels.



Clear, simple, indelible marking on the front of the MCCB stating:
- the thermal magnetic protection,
- the nominal current,
- the breaking capacity.

Clear identification of electrical functions:
- black handle = MCCB
- grey handle = trip-free switch

State of the circuit breaker:
I = On
0 = Off

Magnetic adjustment:
Ii from 5 to 10 x In

Thermal adjustment:
Ir from 0.8 to 1 x In

Test button

DRX 630

ANSWER ALL NEEDS

SOLUTIONS FOR ALL TYPES OF SITES

The comprehensive DRX range provides solutions suiting:

- any installation merely requiring a certain flexibility when it comes to protecting the electric circuits,
- all residential, commercial or industrial sites requiring protection and remote tripping functions.

ROBUST DESIGN
RELIABILITY
SAFETY

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

x 25,000
MECHANICAL OPERATIONS

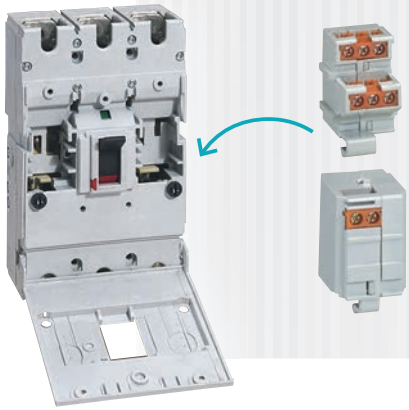
TEST OF ENDURANCE

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

QUALITY LEVEL

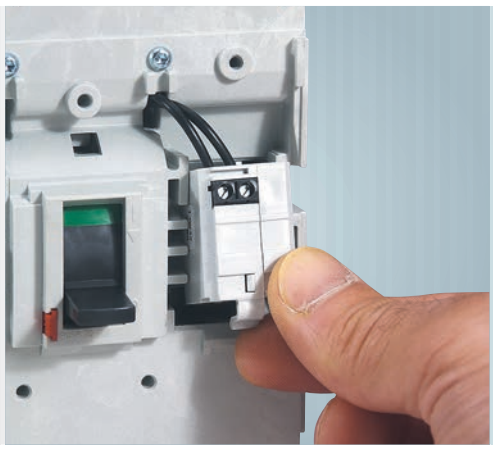
Guaranteed by SEMKO and LOVAG certifications.
Compliant with standard IEC 60947-2.

REMOTE TRIPPING FOR SAFETY



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

→
The control and signalling auxiliaries simply clip on.



RISK-FREE INTERVENTION

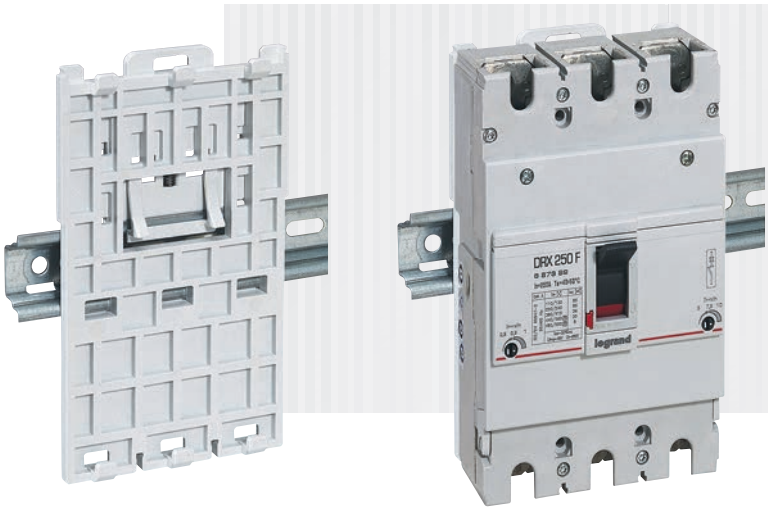
The padlock can be used to lock the handle in "Open" position during maintenance operations and thus avoid any risk of accidents due to mishandling.

FACEPLATE PROTECTION

No live parts are accessible once installed under a faceplate.

EASE OF INSTALLATION AND WIRING

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

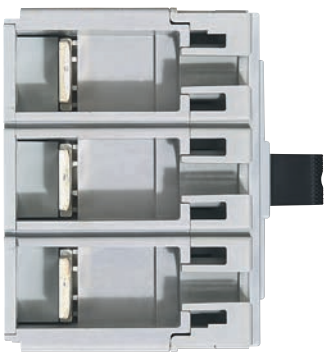


EASE OF INSTALLATION AND FLEXIBILITY

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

A VARIETY OF WIRING SYSTEM OPTIONS

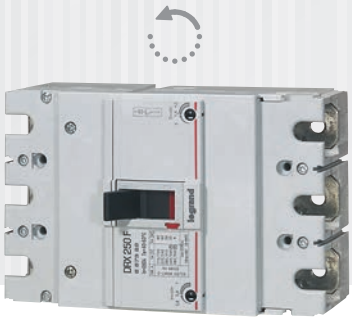
Numerous wiring accessories are available to assist installation.

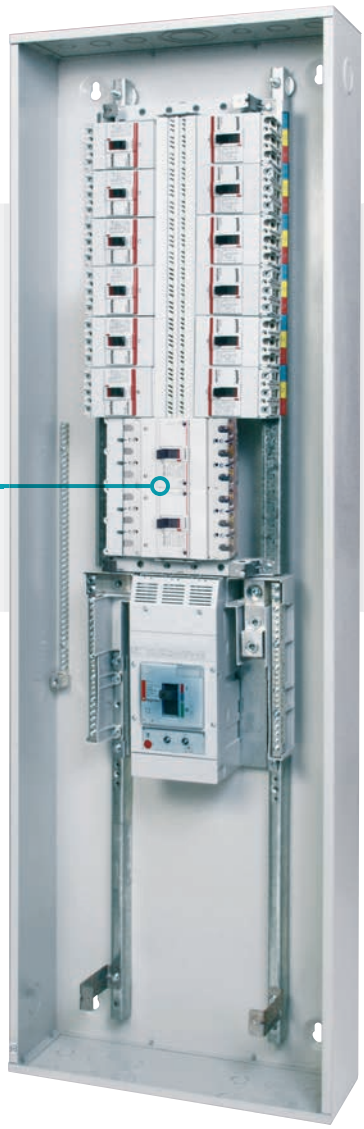


24 mm distance between base and terminal, for mounting on busbars.

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

ALL THE DRX SOLUTIONS CAN BE INSTALLED IN XL³-N 125/250 DISTRIBUTION BOARD!





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, adjustable DRX MCCBs can also be installed horizontally in enclosures like XL³-N 630.

DRX™ 125 and DRX-I 125

adjustable thermal magnetic MCCBs from 16 to 125 A and trip-free switches

6 673 79

0 271 83

0 271 70

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

For switching, control, isolation and protection of low-voltage electrical lines
Can be fitted with auxiliaries (p. 14)
Supplied with:
- M5 terminals for In ≤ 50 A, M8 terminals for 50 < In < 125 A and M6 terminals for In = 125 A
- Fixing screws
- Insulating shields (2 for 3P and 3 for 4P)
Conform to IEC 60947-2, in compliance with NEMA

DRX 125

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Thermal adjustable from 0.8 to 1 x In Magnetic fixed at 10 x In (fixed at 400 A up to 30 A)
			Breaking capacity Icu 25 kA (415 V~)
1	6 673 50	6 673 60	16 A
1	6 673 51	6 673 61	20 A
1	6 673 52	6 673 62	25 A
1	6 673 53	6 673 63	32 A
1	6 673 54	6 673 64	40 A
1	6 673 55	6 673 65	50 A
1	6 673 56	6 673 66	63 A
1	6 673 57	6 673 67	80 A
1	6 673 58	6 673 68	100 A
1	6 673 59	6 673 69	125 A
			Breaking capacity Icu 36 kA (415 V~)
1	6 673 70	6 673 80	16 A
1	6 673 71	6 673 81	20 A
1	6 673 72	6 673 82	25 A
1	6 673 73	6 673 83	32 A
1	6 673 74	6 673 84	40 A
1	6 673 75	6 673 85	50 A
1	6 673 76	6 673 86	63 A
1	6 673 77	6 673 87	80 A
1	6 673 78	6 673 88	100 A
1	6 673 79	6 673 89	125 A

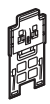
DRX-I 125

Trip-free switches for on-load circuit breaking and isolation of low voltage electrical circuits

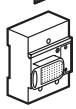
Pack	Cat.Nos 3P	Cat.Nos 4P	
1	6 671 39	6 671 59	125 A

Mounting on rail

Pack	Cat.Nos	
		Plates for fixing DRX 125 and DRX-I 125 on DIN rail
20	0 271 89	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 2P	
1	0 271 91	Set of 2

Pack	Cat.Nos 3P	Cat.Nos 4P	
	0 271 83	0 271 84	Set of 2

Cage terminals

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 from 100 to 125 A

Padlock for DRX 125 and 250

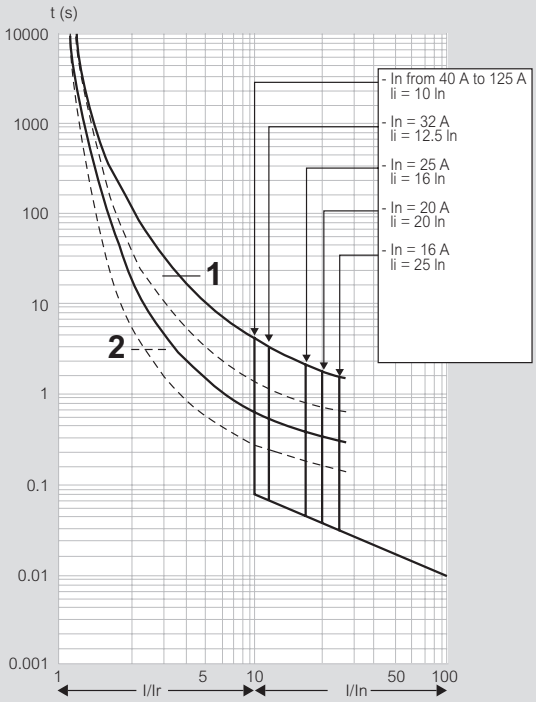
Pack	Cat.Nos	
1	0 271 80	For locking on "OFF" position (up to 3 locks)

DRX™ 125

technical characteristics and curves

Curves

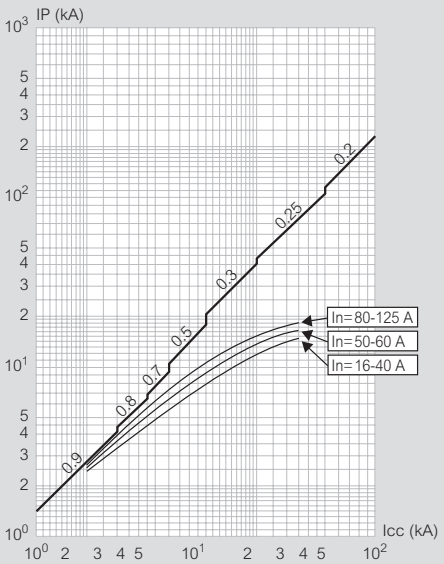
DRX 125 Imax = 125 A from 25 kA to 36 kA 3P - 4P at 415 V~



t = time
I = rated current
Ir = setting current
In = rated current
Curve n°1 = characteristic with cold start ——
Curve n°2 = characteristic with hot start - - - - -

Current limitation

DRX 125 Imax = 125 A from 25 kA to 36 kA 3P - 4P at 415 V~



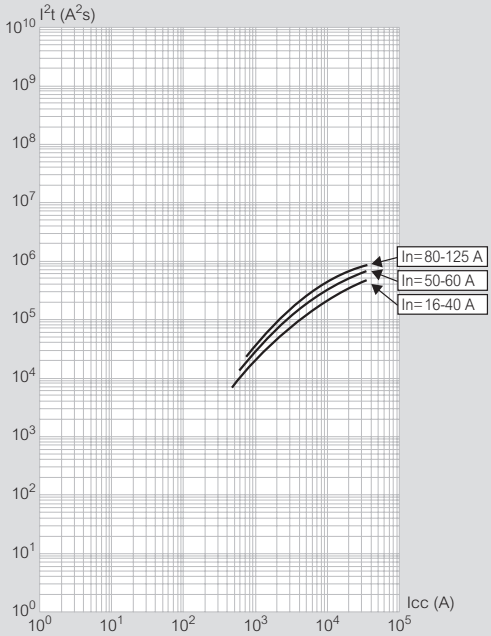
Icc = estimated short circuit symmetrical current (RMS value)
Ip = maximum short circuit peak current

—— 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 25 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

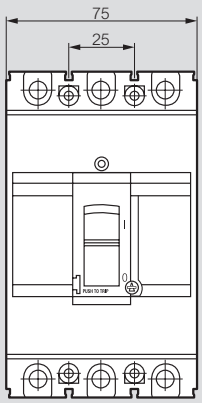
		DRX 25 kA	DRX 36 kA	DRX-I 125
Number of poles		3P - 4P	3P - 4P	3P - 4P
Releases type		thermal-mag	thermal-mag	No protection
Ambient temperature Tamb (°C)		40 - 50	40 - 50	
Rated current In (A)		16-125	16-125	125
Rated insulation voltage (50/60Hz) Ui (V)		690	690	690
Rated operational voltage (50/60Hz) Ue (V)		550	550	550
Rated impulse withstand voltage Uimp (kV)		6	6	6
Utilization category		A	A	AC23A
Type of circuit-breaker	**Type**	25	36	-
	Letter (if any)	B	F	-
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	**110/130 V~**	70	85	-
	220/240 V~	70	85	-
	380/415 V~	25	36	-
	440/460 V~	20	30	-
	480/550 V~	15	20	-
Rated service short-circuit breaking capacity Ics (%Icu)		75	50	-
Rated short-circuit making capacity Icm (at 415 V~)		52.5	75.6	2.5
Neutral protection for 4p version (%Ith)		100	100	-
Rated short-time withstand current Icw (0.5s) (kA)		-	-	1.5
Rated short-circuit breaking capacity on IT system Isu.lit (kA) IEC 60947-2 (Annexes C - H)	**110/130 V~**	18	22	-
	220/240 V~	18	22	-
	380/415 V~	6.5	9	-
	440/460 V~	5	8	-
	480/550 V~	4	5	-
Rated ultimate breaking capacity Icu (kA) NEMA AB-1	**220/240 V~**	70	85	-
	480/550 V~	15	20	-
Magnetic type		Fixed	Fixed	-
Instantaneous releases phases or neutral poles (2P series)		400A up to 30A; 10 In up to 125A		-
Minimum value of instantaneous release (single pole) (×Ii)		1		-
Thermal type		Adjustable		-
Thermal adjustement (×In)		0.8 ÷ 1		-

DRX™ 125

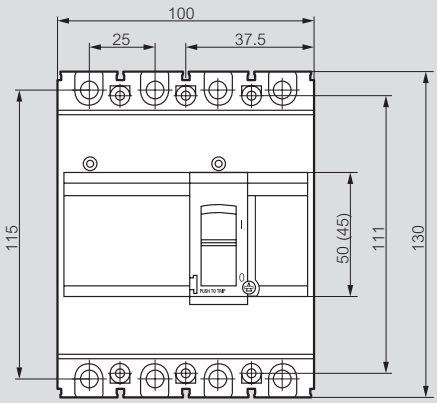
dimensions, mounting principle and connection

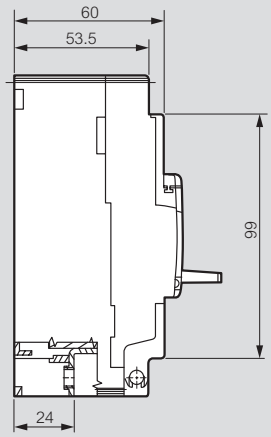
Dimensions

3P



4P

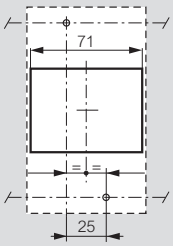




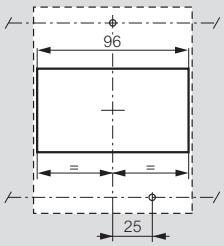
Mounting principle

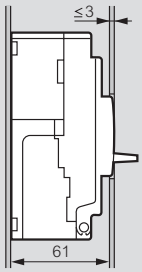
Door cut-out

3P

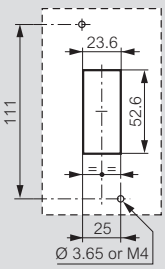


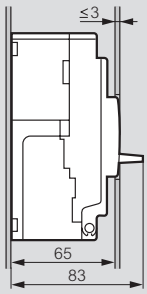
4P





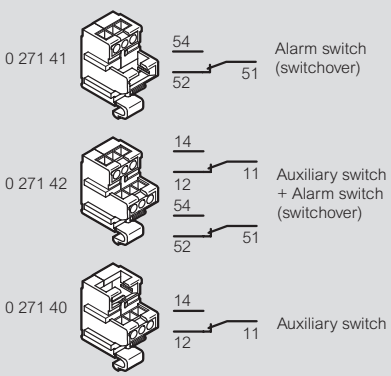
3-4P



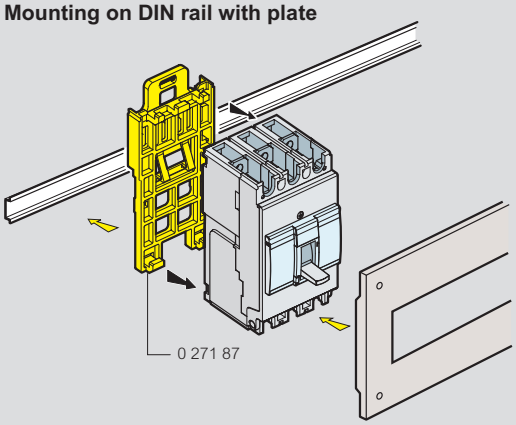


Auxiliary contacts

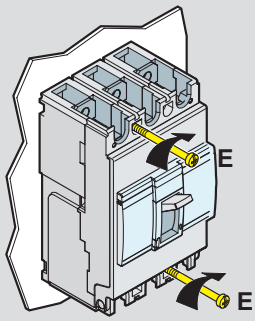
	Voltage (V)	Resistive load (A)
Vac	125	5
	250	5
Vdc	30	5
	50	1
	75	0.75
	125	0.5
	250	0.25
Mechanical endurance (No. of operations)		5 x 10^6
Temperature (°C)		- 40 to 85 °C

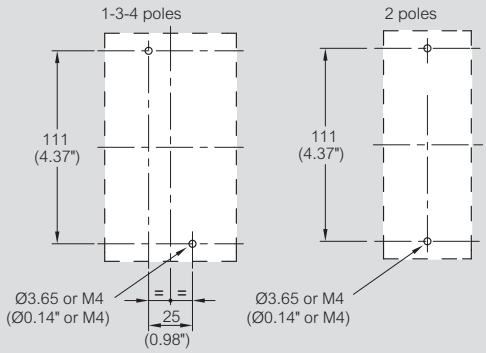


Mounting on DIN rail with plate



Fixing on plate

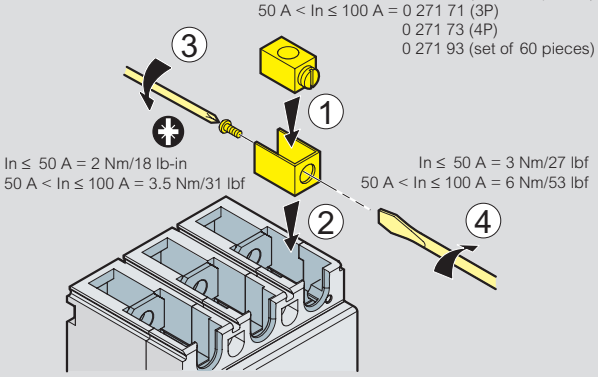




Connection

Connection via cable In ≤ 100 A

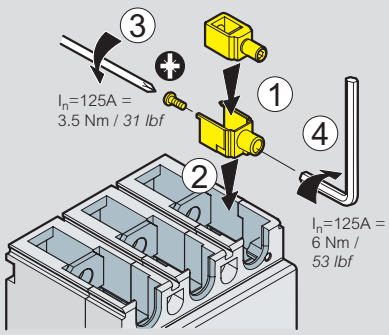
In ≤ 50 A = 0 271 70 (3P)
0 271 72 (4P)
0 271 92 (set of 60 pieces)
50 A < In ≤ 100 A = 0 271 71 (3P)
0 271 73 (4P)
0 271 93 (set of 60 pieces)



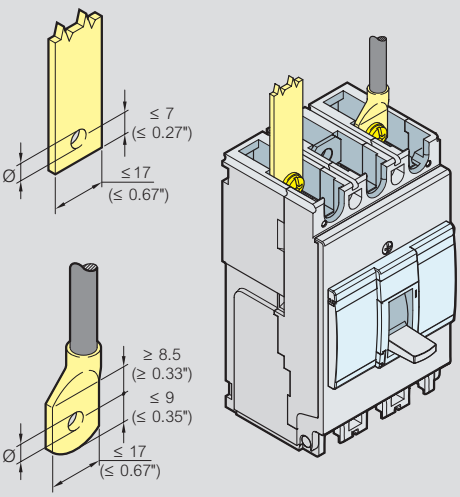
DRX ≤ 50 A	50 A < In ≤ 100 A	In = 125 A
Flexible 2.5 ➡ 10 mm² #14 ➡ #8 AWG or Solid 2.5 ➡ 16 mm² #14 ➡ #6 AWG 12 0.47"	Flexible 10 ➡ 35 mm² #8 ➡ #3/2 AWG Solid 10 ➡ 50 mm² #8 ➡ #1/0 AWG 14 0.55"	Flexible 35 ➡ 50 mm² #3/2 ➡ #1/0AWG Solid 35 ➡ 50 mm² #3/2 ➡ #1/0AWG 14 0.55"

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

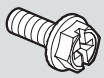
Connection via cable In = 125 A



Connection via busbar



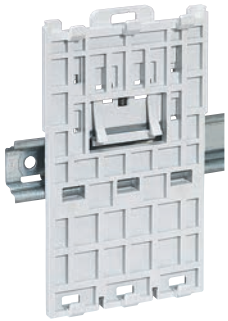
In ≤ 50 A	50 A < In ≤ 125 A
Ø 5.5 mm / 0.21"	Ø 8.5 mm / 0.32"

In ≤ 50 A	50 A < In ≤ 100 A	In = 125 A
		

DRX™ 250 and DRX-I 250

adjustable thermal magnetic MCCBs from 125 to 250 A and trip-free switches

6 673 99



0 271 88

0 271 74

0 271 80

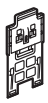
Technical characteristics and curves **p. 15 to 17**

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)
Conform to IEC 60947-2

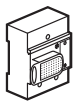
Pack	Cat.Nos 3P	Cat.Nos 4P	DRX 250
			Thermal adjustable from 0.8 to 1 x In Magnetic adjustable from 5 to 10 x In
			Breaking capacity Icu 25 kA (415 V~)
			In
1	6 673 92	6 674 02	160 A
1	6 673 93	6 674 03	200 A
1	6 673 94	6 674 04	250 A
			Breaking capacity Icu 36 kA (415 V~)
			In
1	6 673 97	6 674 07	160 A
1	6 673 98	6 674 08	200 A
1	6 673 99	6 674 09	250 A

Pack	Cat.Nos	DRX-I 225
		Trip-free switches for on-load circuit breaking and isolation of low voltage electrical circuits
1	6 672 09 | 6 672 19	225 A

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



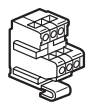
Pack	Cat.Nos	Rotary handles
		Direct on DRX
1	0 271 78	Standard (grey)
		Vari-depth handle
		Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism
1	0 271 79	Standard (grey)



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~

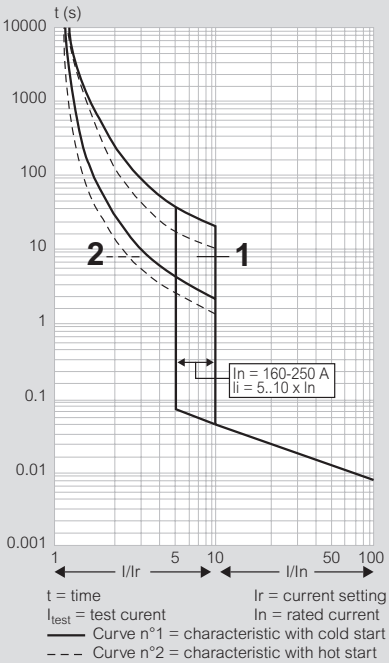


DRX™ 250

technical characteristics and curves

Curves

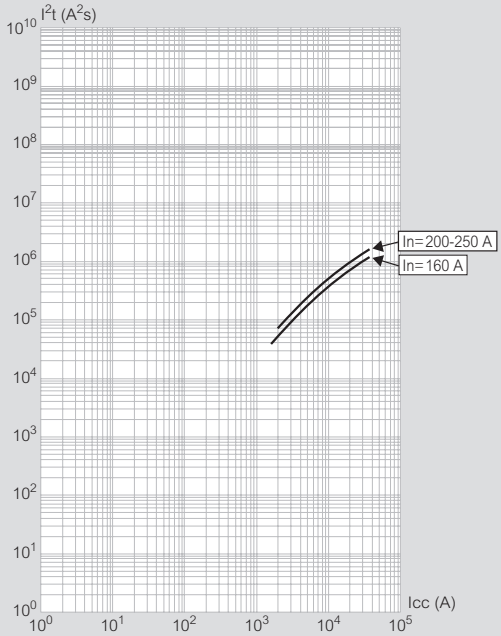
DRX 250 Imax = 250 A from 25 kA to 36 kA 3P - 4P at 415 V~



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

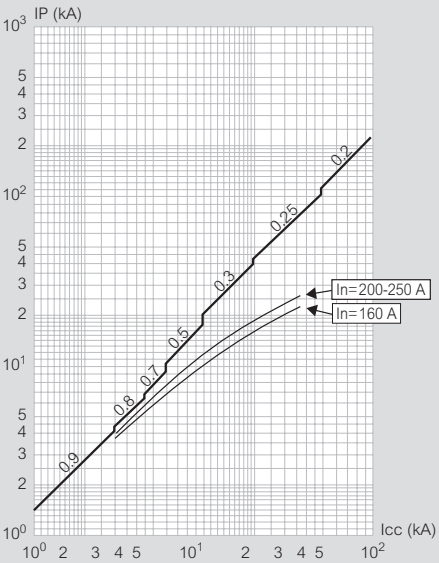
DRX 250 Imax = 250 A from 25 kA to 36 kA 3P - 4P at 415 V~



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

Current limitation

DRX 250 Imax = 250 A from 25 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

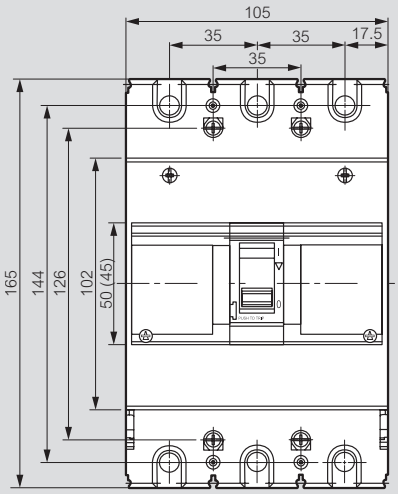
		DRX - 25 kA	DRX - 36 kA	DRX-I 250
Number of poles		3P - 4P	3P - 4P	3P - 4P
Releases type		thermal-mag	thermal-mag	No protection
Ambien temperature Tamb (°C)		40-50	40-50	
Rated current In (A)		160-200-250	160-200-250	250 / 160
Rated insulation voltage (50/60Hz) Ui (V)		690	690	690
Rated operational voltage (50/60Hz) Ue (V)		550	550	550
Rated impulse withstand voltage Uimp (kV)		6	6	6
Utilization category		A	A	AC22A / AC23A
Type of circuit breaker	**Type**	25	36	-
	Letter (if any)	B	F	-
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	**110/130 V~**	70	85	
	220/240 V~	70	85	-
	380/415 V~	25	36	-
	440/460 V~	22	30	-
	480/550 V~	6	8	-
Rated service short-circuit breaking capacity Ics (%Icu)		75	50	-
Rated short-circuit making capacity Icm (at 415 V~)		52.5	75.6	4.3
Neutral protection for 4P version (%Ith)		100	100	-
Rated short-time withstand current Icw (0.5s) (kA)				3
Rated short-circuit breaking capacity on IT system Isu.lit (kA) IEC 60947-2 (Annexes C - H)	**110/130 V~**	18	22	-
	220/240 V~	18	22	-
	380/415 V~	6.5	9	-
Rated ultimate short-circuit breaking capacity Icu (kA) NEMA AB-1	**220/240 V~**	70	85	-
	480/550 V~	6	8	-
Magnetic type		Adjustable		-
Thermal magnetic releases (×In)		5 ÷ 10		-
Minimum value of instantaneous release (single pole) (×Ii)		1		-
Thermal type		Adjustable		-
Thermal adjustement (×In)		0.8 ÷ 1		-

DRX™ 250

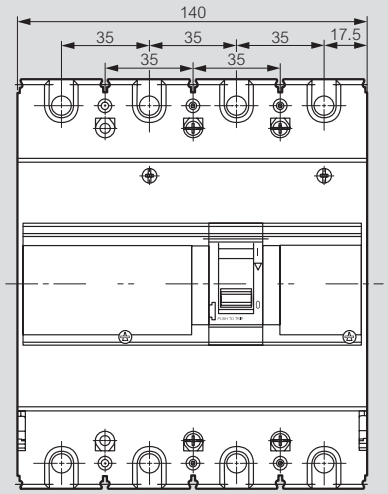
dimensions, mounting principle and connection

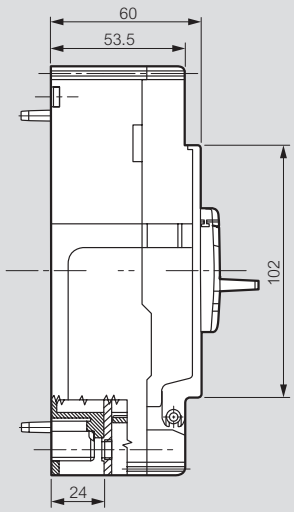
Dimensions

3P



4P

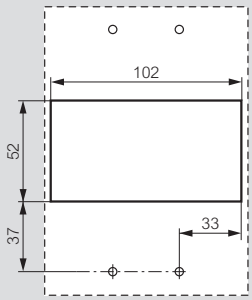




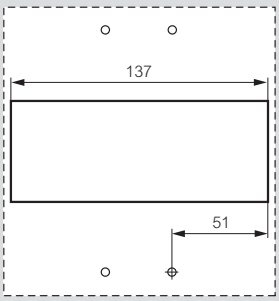
Mounting principle

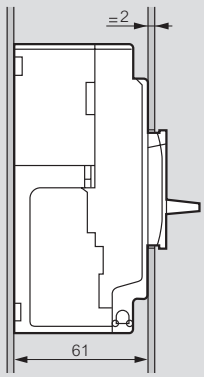
Door cut-out

3P

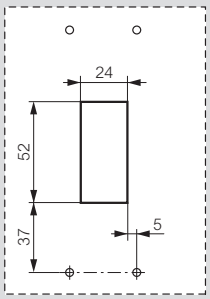


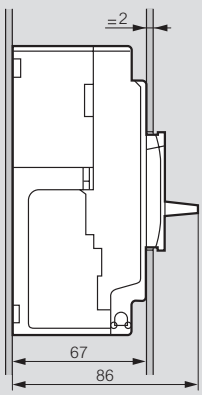
4P



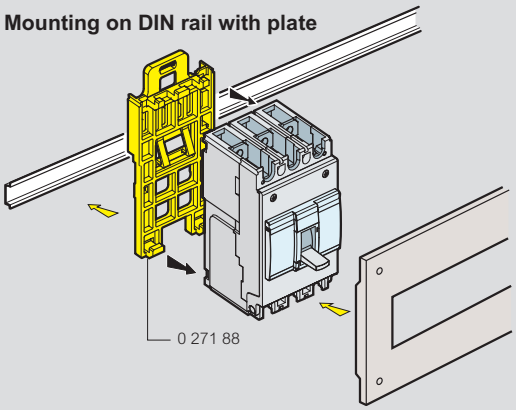


3-4P

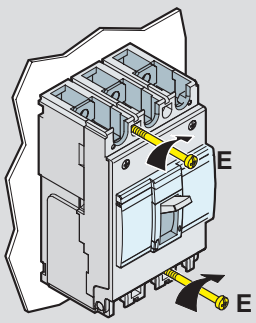


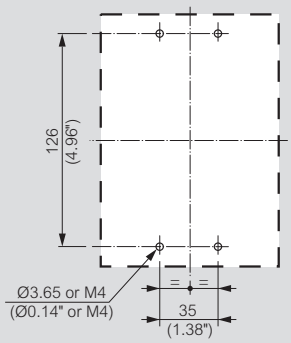


Mounting on DIN rail with plate



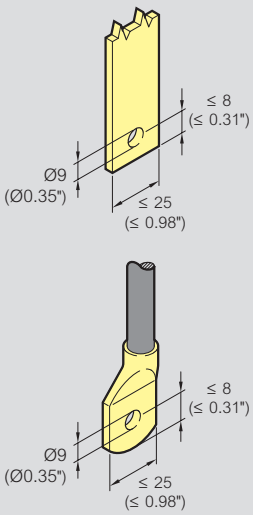
Fixing on plate

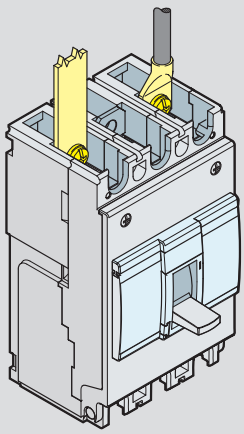




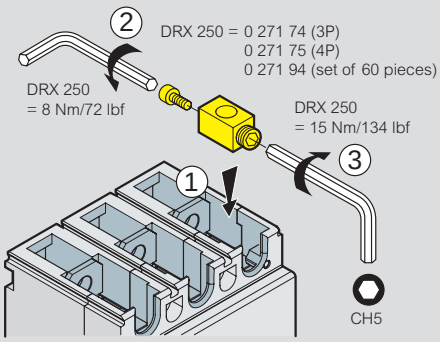
Connection

Connection via busbar





Connection via cable



DRX 250 - 125 to 250 A

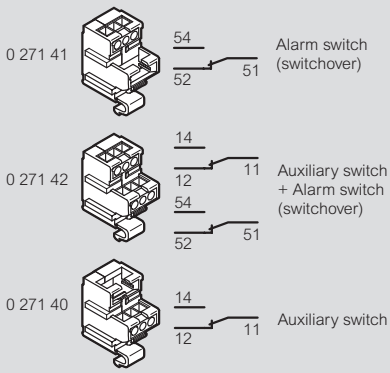
Flexible
35 mm² ➡ 120 mm²
#2 ➡ #250 MCM

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

adjustable thermal magnetic MCCBs from 320 to 630 A

6 676 51


0 262 50


0 262 51


0 262 48


0 263 52

Technical characteristics and curves **p. 19 to 21**

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)

Conform to IEC 60947-2

Pack	Cat.Nos	DRX 630
		Thermal adjustable from 5 to 10 x In Magnetic adjustable from 0.8 to 1 x In
		Breaking capacity Icu 36 kA (415 V~)
	3P | 4P	In
1	6 676 50 | 6 676 54	320 A
1	6 676 51 | 6 676 55	400 A
1	6 676 52 | 6 676 56	500 A
1	6 676 53 | 6 676 57	630 A
		Breaking capacity Icu 50 kA (415 V~)
		In
1	6 676 58 | 6 676 62	320 A
1	6 676 59 | 6 676 63	400 A
1	6 676 60 | 6 676 64	500 A
1	6 676 61 | 6 676 65	630 A

Pack	Cat.Nos	Rotary handles
		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)

Pack	Cat.Nos	Connection accessories
		Insulating shields
1	0 262 30	Used to isolate the connection between each pole Set of 2 pieces
	3P | 4P	**Sealable terminal shields**
1	0 262 44 | 0 262 45	Set of 2
		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

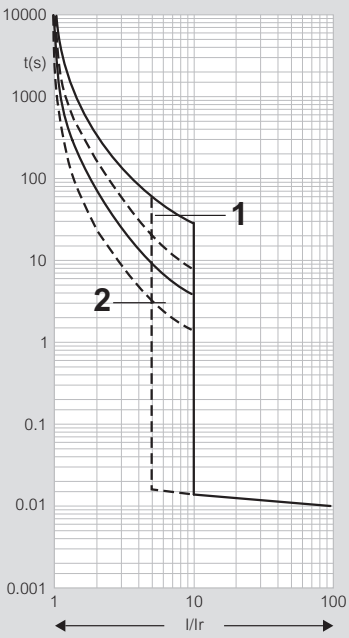
Pack	Cat.Nos	Connection accessories (continued)
	3P | 4P	**Spreaders**
1	0 262 48 | 0 262 49	Set of incoming or outgoing spreaders
		Swivel terminals
1	0 263 50 | 0 263 51	Set of incoming or outgoing swivel terminals
		Flat terminals
1	0 263 52 | 0 263 53	Set of incoming or outgoing flat terminals

Pack	Cat.Nos	Padlock for DRX 630
1	0 262 40	For locking on "OFF" position (up to 3 locks)

Pack	Cat.Nos	Control and signalling auxiliaries for DRX 630
		For DPX³, DPX³-I and DRX
		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 ⎓

Curves

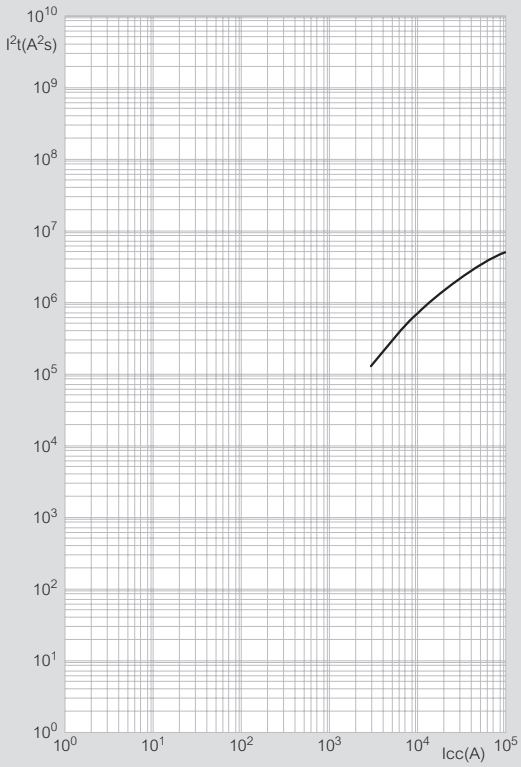
DRX 630 Imax = 630 A from 36kA to 50 kA 3P - 4P



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

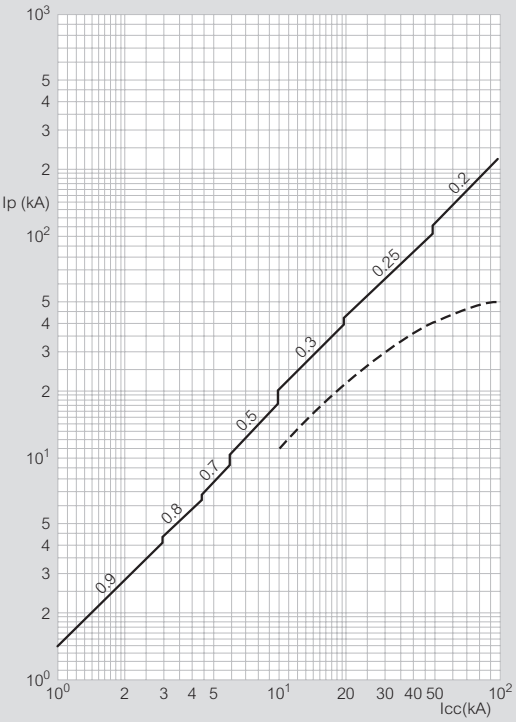
DRX 630 Imax = 630 A from 36kA to 50 kA 3P - 4P at 415 V~



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

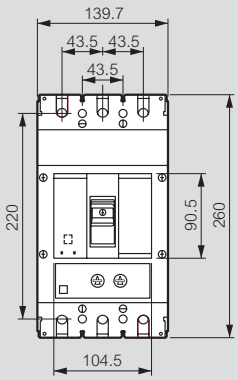
		DRX - 36 kA	DRX - 50 kA
Number of poles		3P - 4P	3P - 4P
Releases type		thermal-mag	thermal-mag
Ambient temperature Tamb (°C)		40 - 50	40 - 50
Rated current In (A)		320-630	320-630
Rated insulation voltage (50/60Hz) Ui (V)		800	800
Rated operational voltage (50/60 Hz) Ue (V)		690	690
Rated impulse withstand voltage Uimp (kV)		8	8
Utilization category		A	A
Type of circuit-breaker		36	50
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	**110/130 V~**	70	100
	220/240 **V~**	70	100
	380/415 V~	36	50
	440/460 V~	30	40
	480/550 V~	25	30
	600 V~	20	22
	690 V~	14	18
Rated service short-circuit breaking capacity Ics (%Icu)		100	100
Rated short-circuit making capacity Icm (at 415 V~)		75.6	105
Neutral protection for 4P version (%Ith)		100	100
Rated short-circuit breaking capacity on IT system Isu.Iit (kA) IEC 60947-2 (Annexes C - H)	**110/130 V~**	18	25
	220/240 **V~**	18	25
	380/415 V~	9	13
	440/460 V~	8	10
	480/550 V~	8	8
	600 V~	8	8
	690 V~	8	8
Rated ultimate short-circuit breaking capacity Icu (kA) NEMA AB-1	**220/240 V~**	70	100
	480/500 V~	25	30
	690 V~	14	18
Magnetic type		Adjustable	
Thermal magnetic releases (×In)		5 ÷ 10	
Istantaneous releases phases or neutral poles (2P series) (×In)		10	
Minimum value of instantaneous release (single pole) (×Ii)		1.2	
Thermal type		Adjustable	
Thermal adjustment (×In)		0.8 ÷ 0.9 ÷ 1	

DRX™ 630

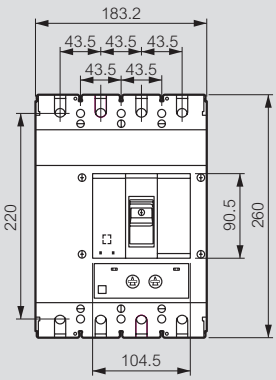
dimensions, mounting principle and connection

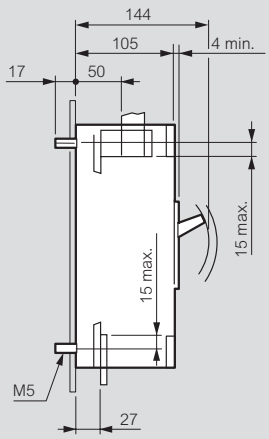
Dimensions

3P

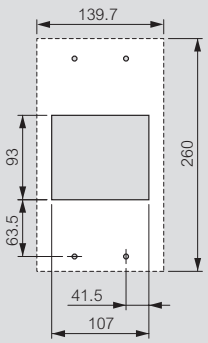


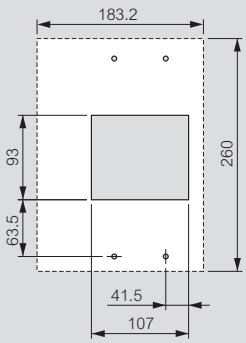
4P

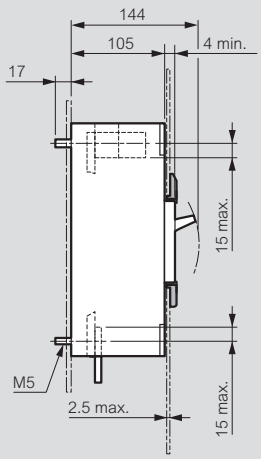




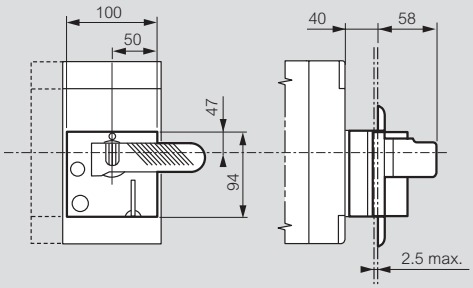
Door cut



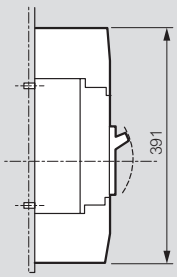




Rotary handle-direct on DPX

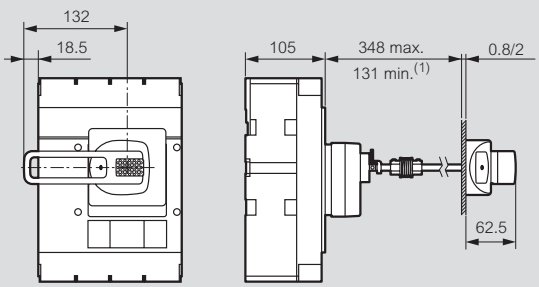


Terminal shields



Rotary handle-vari-depth handle on door

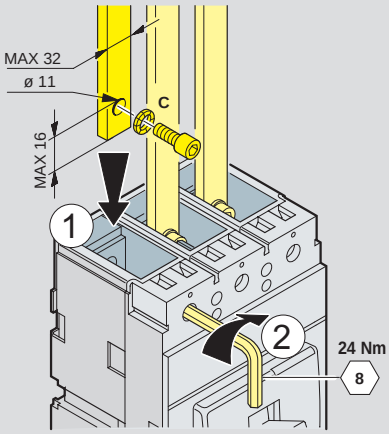
Mounting with flexible seal



1: 75 mm without mechanical system

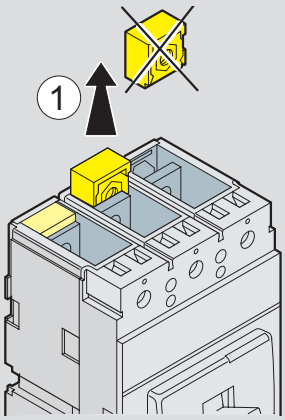
Connection

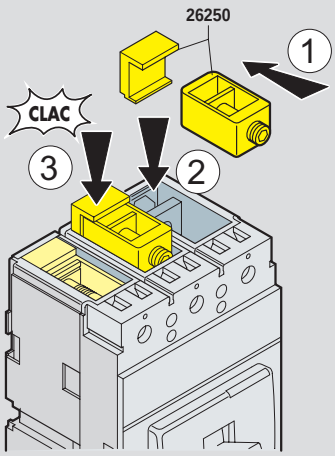
Connection via busbar

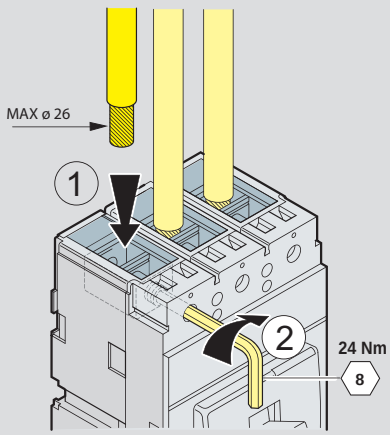


Connection via cable

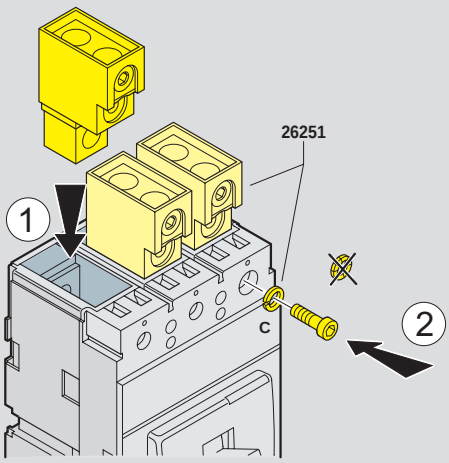
With cage terminals Cat.No 0 262 50

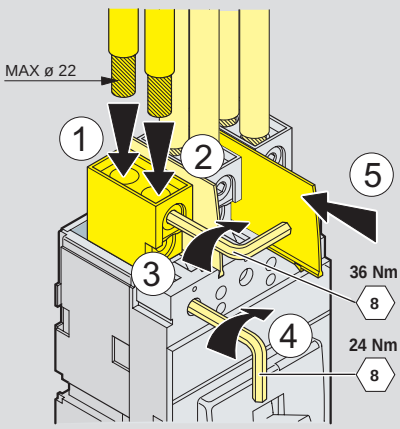






With high capacity cage terminals Cat.No 0 262 51





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