DRX
MCCB RANGE

WHO SAYS

WORLD CLASS SOLUTIONS CAN'T BE ACCESSIBLE?

Launching DRX MCCBs
With a range of accessories and winning features.

legrand®
LIVE THE ADVANTAGE

LIVE THE ADVANTAGE

The pace of life today demands continuous upgrades in efficiency and ways to live smarter. At Legrand, we anticipate your needs with technologically advanced products, investing as much as 5% on Research & Development to deliver superior electrical and digital building infrastructure.

As global specialists, we are aware of reducing the footprint and make our products energy efficient. Our engineering is exacting and is fuelled by design thinking. We call this Designeering. It's not just a deep understanding of our markets, but delivering innovation and technology for being energy positive.

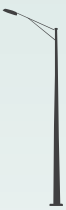
Such expertise helps us fulfil your needs. It also ensures that we keep introducing products that change the way you look at form and function. The energy efficient DRX MCCBs, for example, gives you features, choices and accessories that gives reliable protection and makes your organisation energy positive, as well.

DRX 250 HP N
6 690 92
In=250A Te=40-50°C
Ir=xIn
0,8 0,9 1
Ii=xIn
5 7,5 10
legrand

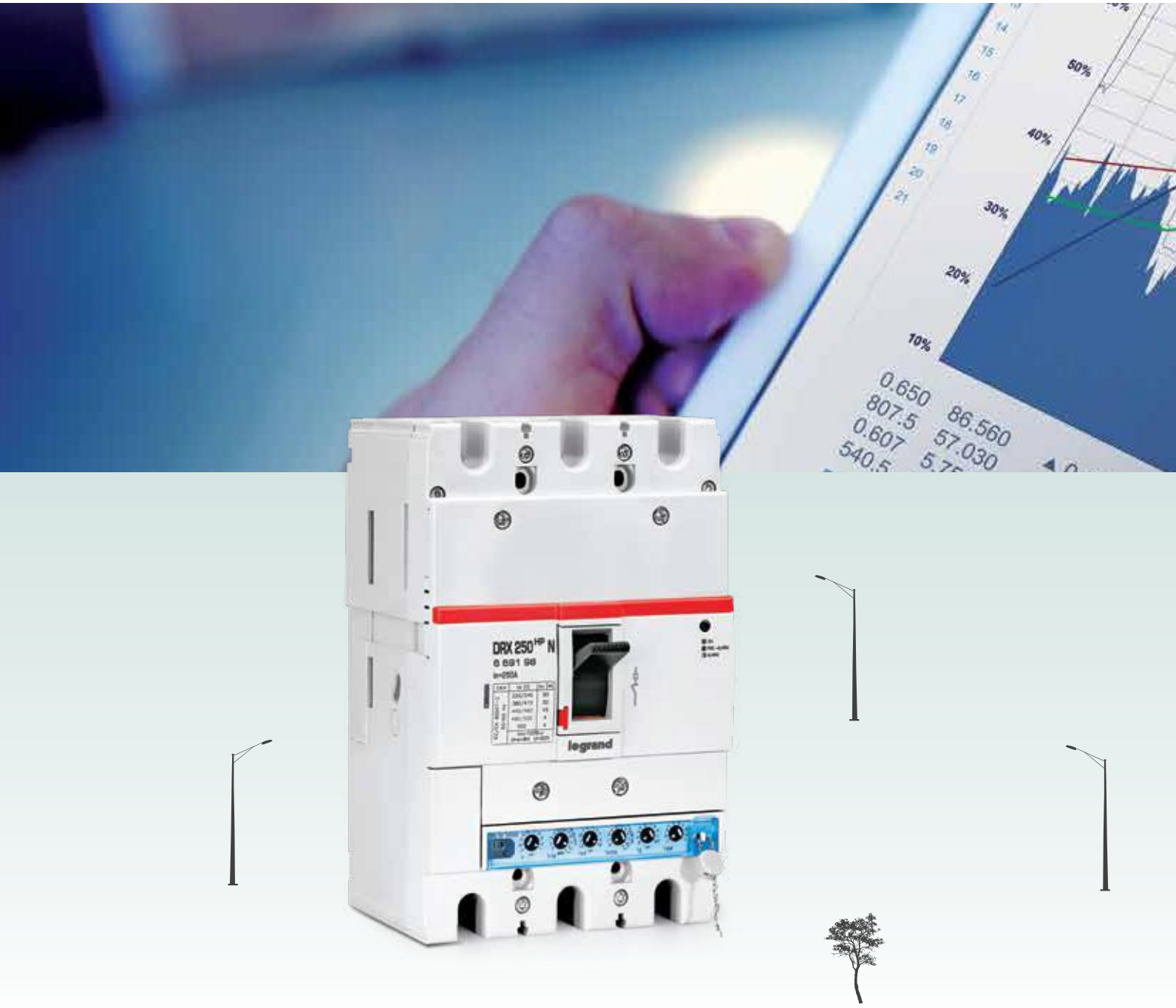
ENERGY+VE

Who says that simple solutions to complex problems won't work, or that the right solutions are always expensive?
At Legrand, our focus on innovation and innate understanding of the Indian ecosystem has allowed us to see from the eyes of all our customers. It has given us a clear view of what's needed most in the country. Your needs are in focus once again and the DRX series of Thermomagnetic and Electronic MCCBs combine ease of operation and simplicity with robust safety and reliability.

DRX
MCCB RANGE



DRX
MCCB RANGE



WHY DO THE IDEAL SOLUTIONS NEED TO BE UNDERMINED BY A BUDGET?

The Indian ecosystem is value conscious and seeks a solution that works to address their needs to help them manage their budgets and resources better. With the DRX series, greater value is easily within reach.

DRX
MCCB RANGE

WHY CAN'T WORLD CLASS SOLUTIONS BE CUSTOMIZED TO LOCAL NEEDS?

NEW DRX 250HP AND DRX 630
COMPLETE RANGE. MULTIPLE FEATURES.

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

RELIABILITY
- Third Party certifications
- Compliant with standard IEC 60947-2
- High Electrical and Mechanical Life

ADAPTABILITY
- Fixing on plate
- Dedicated accessories to aid ease of installation
- Wiring via cables or busbars

THE RANGE		DRX 250HP Adjustable Version	DRX 630 Adjustable Version
		THERMAL MAGNETIC RANGE	
MOUNTING		ON PLATE	ON PLATE
Rated current (In)		From 16 to 250 A	From 320 to 630 A
Breaking capacity (Icu) at 415 V~		25 kA, 36 kA, 50 kA	36 kA, 50 kA
Rated service short-circuit breaking capacity Ics (% Icu)		100	100
Protection	Overload, Ir (A)	0.8 to 1 In	0.8 to 1 In
	Overload time delay, tr (s)	--	--
	Short circuit, Isd (A)	5 to 10 In	5 to 10 In
	Short circuit time delay, tsd(s)	--	--
	Earth fault,Ig (A)	--	--
	Earth fault time delay, tg (s)	--	--
	Switchable Thermal Memory	--	--
	Overload Pre-Alarm	--	--
	Over Temperature Alarm	--	--
Number of poles		3P and 4P	3P and 4P

A COMPREHENSIVE RANGE

The robust design of DRX 250^{HP} and DRX 630 offer adjustable protection, different accessories for connection and remote tripping. They are the ideal choice in terms of efficiency and affordability for protection of your electrical installations of up to 630A.

DRX 250^{HP} Electronic S2 Version	DRX 250^{HP} Electronic Sg Version	DRX 630 Electronic S2 Version	DRX 630 Electronic Sg Version
ELECTRONIC RANGE			
ON PLATE	ON PLATE	ON PLATE	ON PLATE
From 40 A to 250 A	From 40 A to 250 A	From 320 A to 630 A	From 320 A to 630 A
36 kA, 50 k A	36 kA, 50 kA	36 kA, 50 kA	36 kA, 50 kA
100	100	100	100
0.4 to 1 In	0.4 to 1 In	0.4 to 1 In	0.4 to 1 In
3 - 5 - 10 - 15 - 20	3 - 5 - 10 - 15 - 20	3 - 5 - 10 - 15 - 20 - 30	3 - 5 - 10 - 15 - 20 - 30
1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir
0.01 to 0.5	0.01 to 0.5	0.01 to 0.5	0.01 to 0.5
--	0.2 to 1In	--	0.2 to 1 In
--	0.1 to 1s	--	0.1 to 1s
Yes	Yes	Yes	Yes
I>0.9Ir	I>0.9Ir	I>0.9Ir	I>0.9 Ir
T>90 °C	T>90 °C	T>90 °C	T>90 °C
3P and 4P	3P and 4P	3P and 4P	3P and 4P

DRX
MCCB RANGE

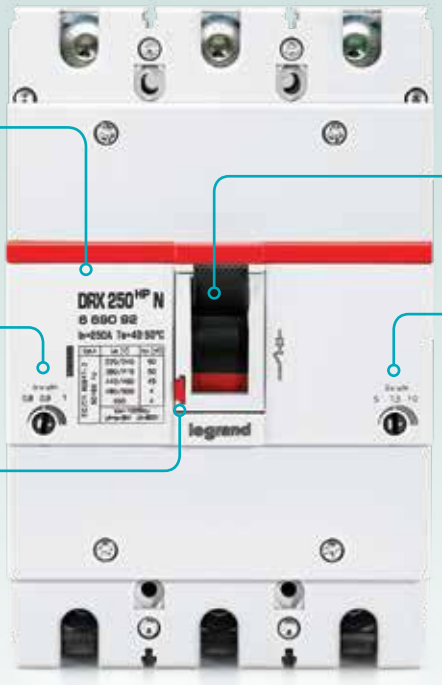
WHY CAN'T A SINGLE SOLUTION ANSWER ALL NEEDS?

DRX 250^{HP} ADJUSTABLE

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

Thermal adjustment:
Ir from 0.8 to 1 x In
on the adjustable version

Test button



Clear identification of the state
of the circuit breaker:
I = On
0 = Off

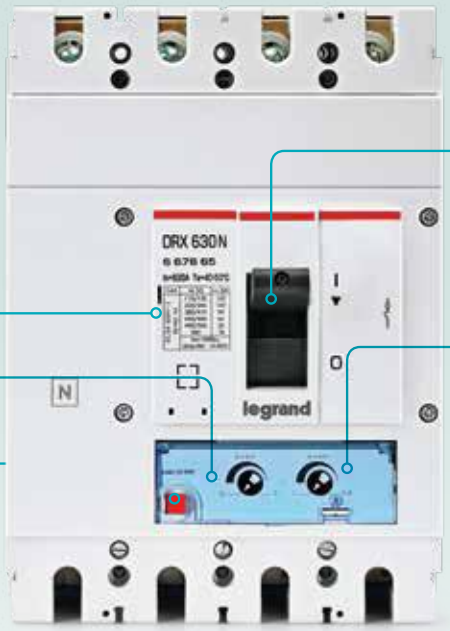
Magnetic adjustment:
Ii from 5 to 10 x In
on the adjustable version [1]

ADJUSTABLE PROTECTION

The DRX range is suited for a wide range of applications across a cross-section of industries. The adjustable version gives the possibility to adjust thermal (protection against overloads) and magnetic [1] (protection against short-circuits) tripping levels.

DRX 630 ADJUSTABLE

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



Clear identification of the state
of the circuit breaker:
I = On
0 = Off

Thermal adjustment: Ir from 0.8 to 1 x In
(on the adjustable version)

Magnetic adjustment:
Ii from 5 to 10 x In
(on the adjustable version)

Test button

SOLUTIONS FOR ALL TYPES OF SITES

The comprehensive DRX range provides the following solutions:
- any installation requiring flexibility for protecting electric circuits
- all residential, commercial or industrial sites requiring protection and remote tripping functions

DRX
MCCB RANGE

HOW CAN
A DESIGN SOLUTION ENSURE RELIABILITY AND SAFETY?

The DRX range has a robust design with rugged construction which ensures continuity of operation even in excessive temperatures.

The DRX series can easily work at temperatures up to 50°C.

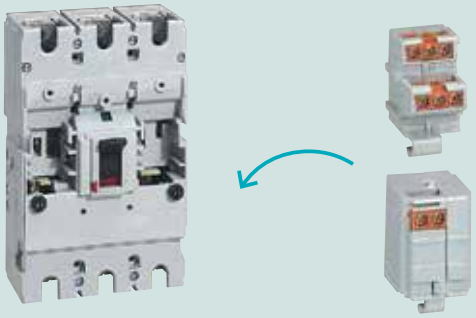
TEST OF ENDURANCE

The DRX has proven mechanical endurance up to 20,000 operations.

QUALITY LEVEL

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

REMOTE TRIPPING FOR SAFETY



→
The control and signalling auxiliaries simply clip on.

FACEPLATE PROTECTION

No live parts are accessible once installed under a faceplate.

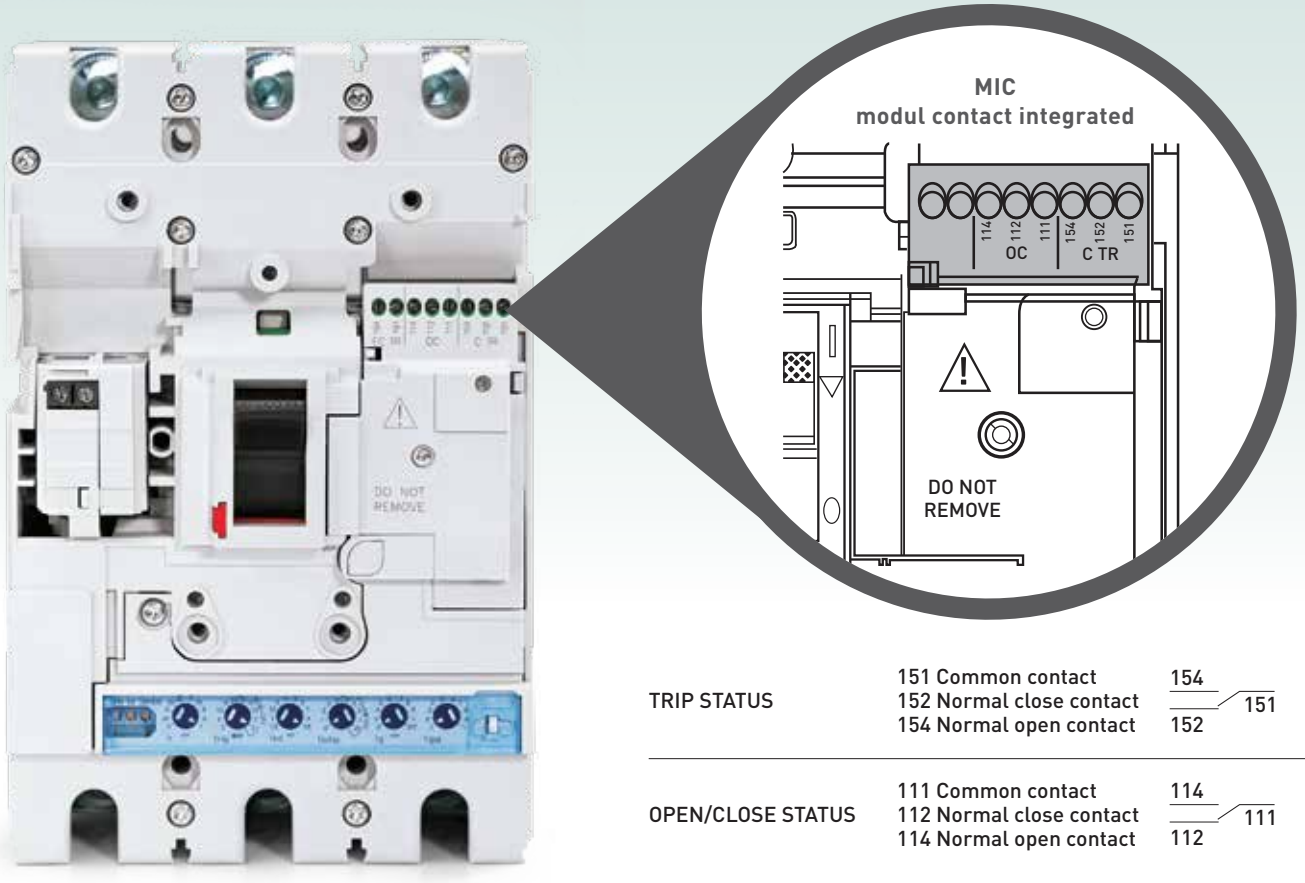
RISK-FREE INTERVENTION

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.

DRX
MCCB RANGE

HOW CAN
ENERGY SAVING
BE MADE TIME SAVING TOO?

The DRX 250^{HP} and DRX 630 range include numerous accessories which make wiring and installation easier.
In-built auxiliary and trip contact offer faster installation. Mounting in vertical/horizontal position gives enhanced flexibility. Rotary handles offer ease of operation along with possibility to mount Keylocks for mechanical interlocking and safety.



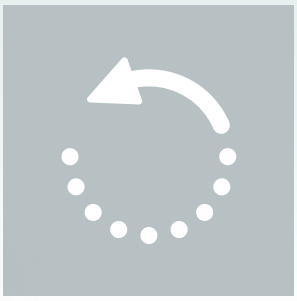
TRIP STATUS	151 Common contact 152 Normal close contact 154 Normal open contact	154 151 152
OPEN/CLOSE STATUS	111 Common contact 112 Normal close contact 114 Normal open contact	114 111 112

ROTARY HANDLE

The rotary handle, is available in direct or external version in order to accommodate the habits of different users or specific constraints of the site.

HORIZONTAL OPERATION

DRX 250^{HP} and DRX 630 can be installed horizontally too, according to the size and type of enclosure.



DRX™ 250 HP adjustable

thermal magnetic MCCBs from 16 to 250 A

6 690 90

6 691 10

Technical characteristics and curves **p. 18-19**
Dimensions and installation principle **p. 20-21**

For switching, control, isolation and protection of low-voltage electrical lines. Can be fitted with auxiliaries. Supplied with: screw terminals, fixing screws, insulating shields (2 for 3P and 3 for 4P).
Adjustable thermal and magnetic
Conform to IEC 60947-2

DRX 250 HP

Thermal adjustable from 0.8 to 1 x In
Magnetic adjustable from 5 to 10 x In

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking capacity Icu 25 kA (415 V~)
1	6 690 00	6 690 20	16 A
1	6 690 01	6 690 21	20 A
1	6 690 02	6 690 22	25 A
1	6 690 03	6 690 23	32 A
1	6 690 04	6 690 24	40 A
1	6 690 05	6 690 25	50 A
1	6 690 06	6 690 26	63 A
1	6 690 07	6 690 27	80 A
1	6 690 08	6 690 28	100 A
1	6 690 09	6 690 29	125 A
1	6 690 10	6 690 30	160 A
1	6 690 11	6 690 31	200 A
1	6 690 12	6 690 32	250 A
			Breaking capacity Icu 36 kA (415 V~)
1	6 690 40	6 690 60	16 A
1	6 690 41	6 690 61	20 A
1	6 690 42	6 690 62	25 A
1	6 690 43	6 690 63	32 A
1	6 690 44	6 690 64	40 A
1	6 690 45	6 690 65	50 A
1	6 690 46	6 690 66	63 A
1	6 690 47	6 690 67	80 A
1	6 690 48	6 690 68	100 A
1	6 690 49	6 690 69	125 A
1	6 690 50	6 690 70	160 A
1	6 690 51	6 690 71	200 A
1	6 690 52	6 690 72	250 A
			Breaking capacity Icu 50 kA (415 V~)
1	6 690 80	6 691 00	16 A
1	6 690 81	6 691 01	20 A
1	6 690 82	6 691 02	25 A
1	6 690 83	6 691 03	32 A
1	6 690 84	6 691 04	40 A
1	6 690 85	6 691 05	50 A
1	6 690 86	6 691 06	63 A
1	6 690 87	6 691 07	80 A
1	6 690 88	6 691 08	100 A
1	6 690 89	6 691 09	125 A
1	6 690 90	6 691 10	160 A
1	6 690 91	6 691 11	200 A
1	6 690 92	6 691 12	250 A

DRX™ 250 HP

electronic S2/Sg - LSI/LSIg

6 691 98

6 692 08

Technical characteristics and curves **p. 18-19**
Dimensions and installation principle **p. 20-21**

For switching, control, isolation and protection of low-voltage electrical lines. Can be fitted with auxiliaries. Supplied with: screw terminals, fixing screws, insulating shields (2 for 3P and 3 for 4P).
Adjustable electronic LSI / LSIg
Conform to IEC 60947-2

DRX 250 HP electronic S2 - LSI

Overload, Ir (A) 0.4 to 1 In
Overload time delay, tr (s) 3 - 5 - 10 - 15 - 20 - 30
Short circuit, Isd (A) 1.5 to 10 Ir
Short circuit time delay, tsd(s) 0.01 to 0.5
Earth fault, Ig (A)
Earth fault time delay, tg (s)
Switchable Thermal Memory Yes
Overload Pre Alarm I>0.9Ir
Over Temperature Alarm T>90 °C

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking Capacity Icu 36 kA (415 V)
1	6 691 70	6 691 80	40 A
1	6 691 71	6 691 81	100 A
1	6 691 72	6 691 82	160 A
1	6 691 73	6 691 83	250 A
			Breaking Capacity Icu 50 kA (415 V)
1	6 691 90	6 692 00	40 A
1	6 691 91	6 692 01	100 A
1	6 691 92	6 692 02	160 A
1	6 691 93	6 692 03	250 A

DRX 250 HP electronic Sg - LSIg

Overload, Ir (A) 0.4 to 1 In
Overload time delay, tr (s) 3 - 5 - 10 - 15 - 20 - 30
Short circuit, Isd (A) 1.5 to 10 Ir
Short circuit time delay, tsd(s) 0.01 to 0.5
Earth fault, Ig (A) 0.2 to 1In
Earth fault time delay, tg (s) 0.1 to 1s
Switchable Thermal Memory Yes
Overload Pre Alarm I>0.9Ir
Over Temperature Alarm T>90 °C

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking Capacity Icu 36 kA (415 V)
1	6 691 75	6 691 85	40 A
1	6 691 76	6 691 86	100 A
1	6 691 77	6 691 87	160 A
1	6 691 78	6 691 88	250 A
			Breaking Capacity Icu 50 kA (415 V)
1	6 691 95	6 692 05	40 A
1	6 691 96	6 692 06	100 A
1	6 691 97	6 692 07	160 A
1	6 691 98	6 692 08	250 A

DRX™ 250 HP accessories

4 201 60

0 271 80

0 271 40

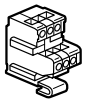
0 271 65

Pack	Cat.Nos	Rotary handles
		Direct
1	4 201 60	Standard (grey)
		Vari-depth handle
		Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism
1	4 201 61	Standard (grey)

Pack	Cat.Nos	Connection accessories
		Insulating shields
		Used to isolate the connection between each pole
	3P | 4P	For DRX 250 HP
1	6 693 00 |	Set of 2
1	| 6 693 01	Set of 3
		Spreaders
1	6 250 14 | 6 240 18	Set of incoming or outgoing spreaders

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

Pack	Cat.Nos	Control and signalling auxiliaries for DRX 250 HP
		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 54	200/277 V∿
1	0 271 55	380/480 V∿
		Undervoltage releases
1	0 271 64	200/240 V∿
1	0 271 65	380/415 V∿



DRX™ 250 HP

thermal magnetic

Electrical and mechanical characteristics

		DRX 250 HP 25 kA	DRX 250 HP 36 kA	DRX 250 HP 50 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P
Release type		thermal-magnetic		
Rated current In (A)		16, 20, 25, 32, 40, 50, 63, 80, 100, 125, 160, 200, 250		
Rated insulation voltage Ui (V)		800	800	800
Rated operating voltage (50/60 Hz) Ue (V)		550	550	550
Rated impulse withstand Voltage Uimp (kV)		8	8	8
Rated frequency (Hz)		50 - 60	50 - 60	50 - 60
Reference ambient temperature Tamb (°C)		40 - 50	40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70	-25 to 70
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	220/240 V~	40	70	90
	380/415 V~	25	36	50
	440/460 V~	20	30	45
	480/500 V~	4	4	4
	550 V~	4	4	4
Rated service short-circuit breaking capacity Ics (% Icu)		100	100	100
Rated short-circuit making capacity Icm (kA) at 415 V~		52.5	75.6	105
Neutral protection for 4P version (% Ith)		100	100	100
Rated ultimate short-circuit breaking capacity Icu (kA) NEMA AB-1	220/240 V~	40	70	90
	480/500 V~	4	4	4
	550 V~	4	4	4
Category of use		A	A	A
Suitable for isolation		Yes	Yes	Yes
Thermal adjustment Ir (A)		0.8 - 0.9 - 1.0 x In		
Magnetic adjustment Ii (A)		Adjustable : 400 A, for In up to 40 A 6.5 - 10 - 13 x In, for In = 50 A 5 - 7.5 - 10 x In, for 63 A ≤ In ≤ 250 A		
Endurance (cycles)	mechanical	12000	12000	12000
	electrical at In	6000	6000	6000
	electrical at 0.5 In	6000	6000	6000
Neutral protection for 4P version (%)		100	100	100
Dimensions W x H x D (mm)	3P	105 x 165 x 86		
	4P	140 x 165 x 86		
Weight (kg)	3P	1.6		
	4P	2.05		

Deration chart

Thermal Magnetic MCCBs

Moulded-case circuit breaker DRX 250 HP MT	Influence of ambient temperature												
Ambient temperature	°C	-25	-20	-10	-5	0	10	20	30	40	50	60	70
	I_n(A)												
DRX 250 HP MT	16	24	23	22	21	21	20	18	17	16	16	13	12
	20	29	29	27	26	26	24	23	21	20	20	17	15
	25	37	36	34	33	32	30	29	27	25	25	21	19
	32	47	46	44	42	41	39	37	34	32	32	27	24
	40	59	57	54	53	52	49	46	43	40	40	34	30
	50	74	72	68	66	64	61	57	54	50	50	42	38
	63	93	90	86	83	81	77	72	68	63	63	53	47
	80	118	114	109	106	103	98	92	86	80	80	67	60
	100	147	143	136	132	129	122	115	107	100	100	84	75
	125	184	179	170	166	161	152	143	134	125	125	105	94
	160	235	229	218	212	206	195	184	172	160	160	134	120
	180	265	257	245	238	232	219	207	193	180	180	151	136
	200	294	286	272	265	258	244	230	215	200	200	168	151
	225	331	322	306	298	290	274	258	242	225	225	189	169
	250	368	358	340	331	322	305	287	269	250	250	210	188

DRX™ 250 HP

electronic version

Electrical and mechanical characteristics

		DRX 250 HP 36 kA	DRX 250 HP 50 kA	DRX 250 HP 36 kA	DRX 250 HP 50 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P	3P - 4P
Release type		Electronic S2	Electronic Sg	Electronic S2	Electronic Sg
Rated current In (A)		40-100-160-250	40-100-160-250	40-100-160-250	40-100-160-250
Rated insulation voltage Ui (V)		800	800	800	800
Rated operating voltage (50/60 Hz) Ue (V)		550	550	550	550
Rated impulse withstand Voltage Uimp (kV)		8	8	8	8
Rated frequency (Hz)		50 - 60	50 - 60	50 - 60	50 - 60
Reference ambient temperature Tamb (°C)		40 - 50	40 - 50	40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70	-25 to 70	-25 to 70
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	220/240 V~	70	90	70	90
	380/415 V~	36	50	36	50
	440/460 V~	30	45	30	45
	480/500 V~	4	4	4	4
	550 V~	4	4	4	4
Rated service short-circuit breaking capacity Ics (% Icu)		100	100	100	100
Rated short-circuit making capacity Icm (kA) at 415 V~		75.6	105	75.6	105
Neutral protection for 4P version (% Ith)		0-50% -100%	0-50% -100%	0-50% -100%	0-50% -100%
Rated ultimate short-circuit breaking capacity Icu (kA) NEMA AB-1	220/240 V~	70	90	70	90
	480/500 V~	4	4	4	4
	550 V~	4	4	4	4
Category of use		A	A	A	A
Suitable for isolation		Yes	Yes	Yes	Yes
Overload, Ir (A)		0.4 to 1 In	0.4 to 1 In	0.4 to 1 In	0.4 to 1 In
Overload time delay, tr (s)		3 - 5 - 10 - 15 - 20	3 - 5 - 10 - 15 - 20	3 - 5 - 10 - 15 - 20	3 - 5 - 10 - 15 - 20
Short circuit, Isd (A)		1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir
Short circuit time delay, tsd(s)		0.01 to 0.5	0.01 to 0.5	0.01 to 0.5	0.01 to 0.5
Earth fault,Ig (A)			0.2 to 1 In		0.2 to 1 In
Earth fault time delay, tg (s)			0.1 to 1s		0.1 to 1s
Switchable Thermal Memory		Yes	Yes	Yes	Yes
Overload Pre Alarm		I>0.9 Ir	I>0.9 Ir	I>0.9 Ir	I>0.9 Ir
Over Temperature Alarm		T>90 °C	T>90 °C	T>90 °C	T>90 °C
Endurance (cycles)	mechanical	12000			
	electrical at In	6000			
	electrical at 0.5 In	6000			
Dimensions W x H x D (mm)	3P	105 x 165 x 86			
	4P	140 x 165 x 86			
Weight (kg)	3P	1.6			
	4P	2.05			

Deration chart

Electronic S2/Sg MCCBs

Moulded-case circuit breaker DRX 250 HP E	Influence of ambient temperature				
Ambient temperature	°C	up to 40	50	60	70
	I_n(A)				
DRX 250 HP E	40	40	40	40	40
	100	100	100	100	95
	160	160	160	160	155
	250	250	250	210	190

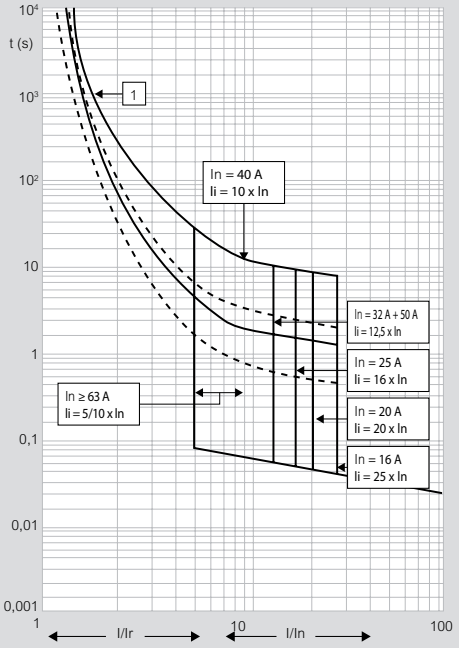
DRX™ 250 HP

tripping curves

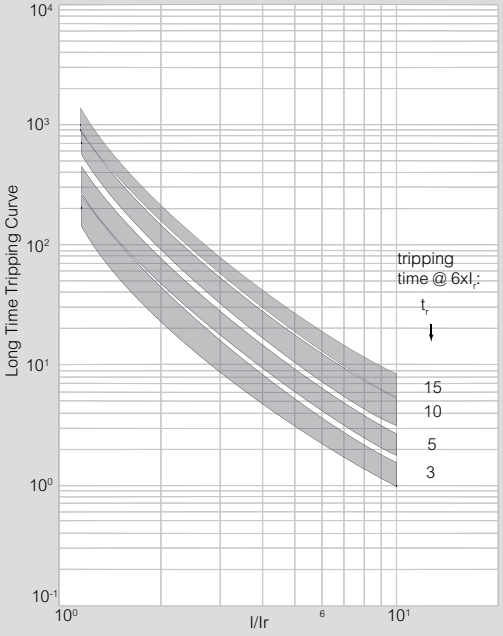
Curves

Thermal magnetic tripping curve

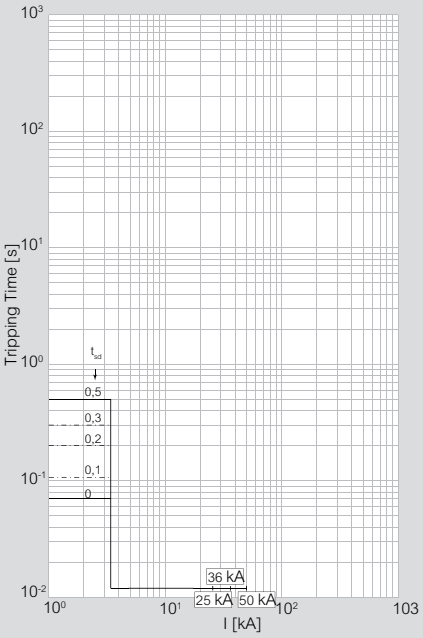
I_{cu} = 25 / 36 / 50 kA I_{max} = 250 A 3P - 4P U_e = 415 V~



Electronic overload tripping curve

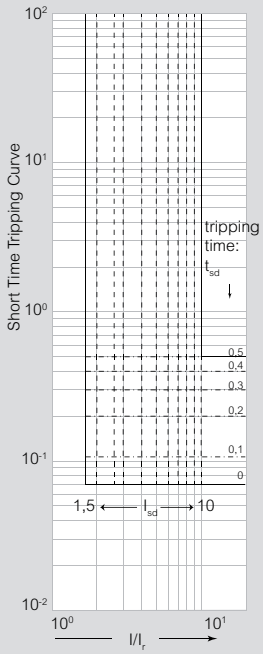


Electronic short circuit tripping curve

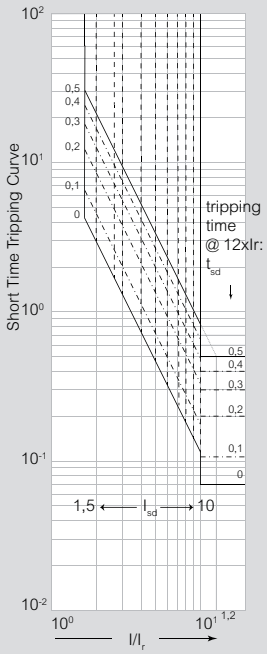


t = time
I = rated current
I_n = rated current
I_r = long time setting current
curve 1 = characteristic with cold start
curve 2 = characteristic with hot start

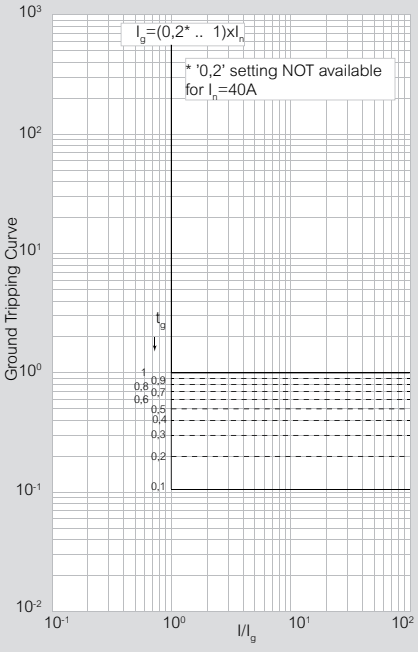
Electronic short circuit tripping curve



Electronic short circuit tripping curve



Electronic earth fault tripping curve

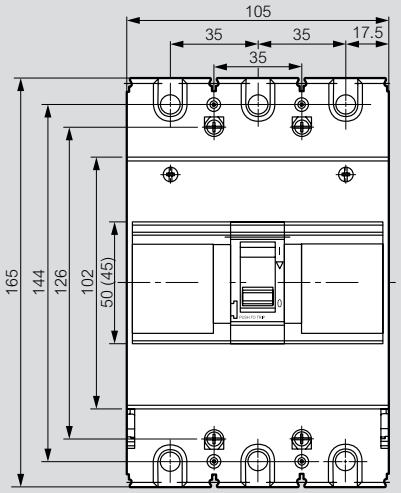


DRX™ 250 HP

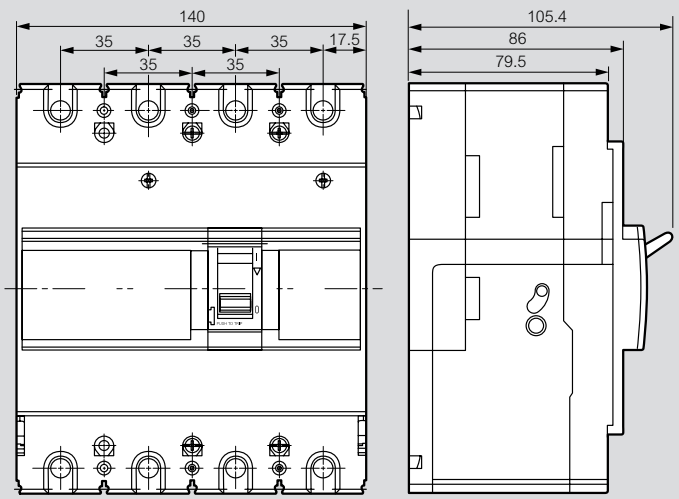
dimensions and mounting principle

Dimensions

3P



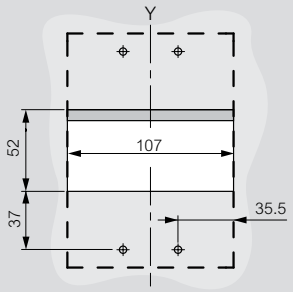
4P



Mounting principale

Door cut-out

3P



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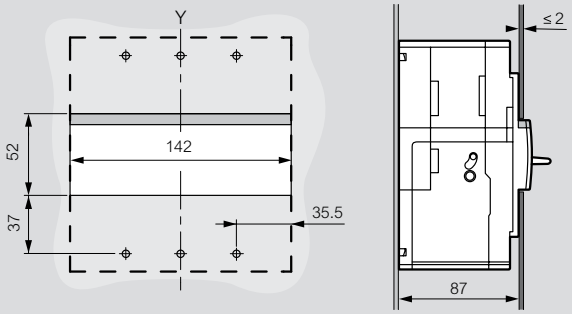

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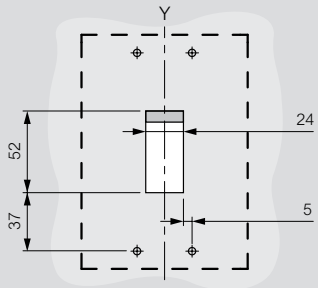

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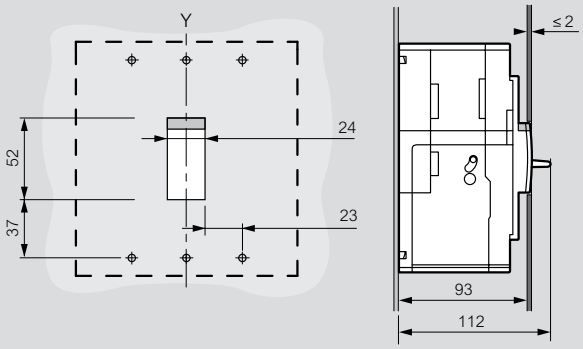
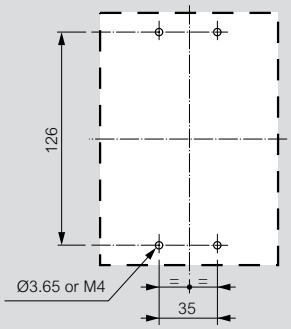
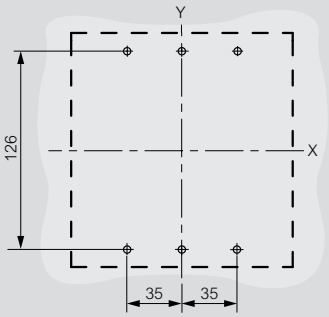


Fixing on plate

3P



4P

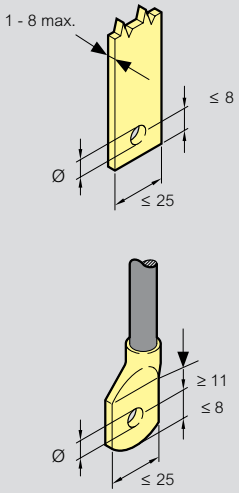


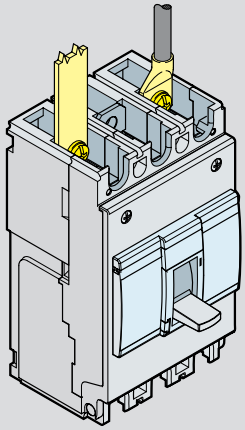
DRX™ 250 HP

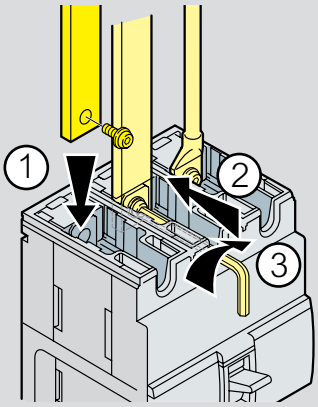
dimensions (continued) and connection

Connection

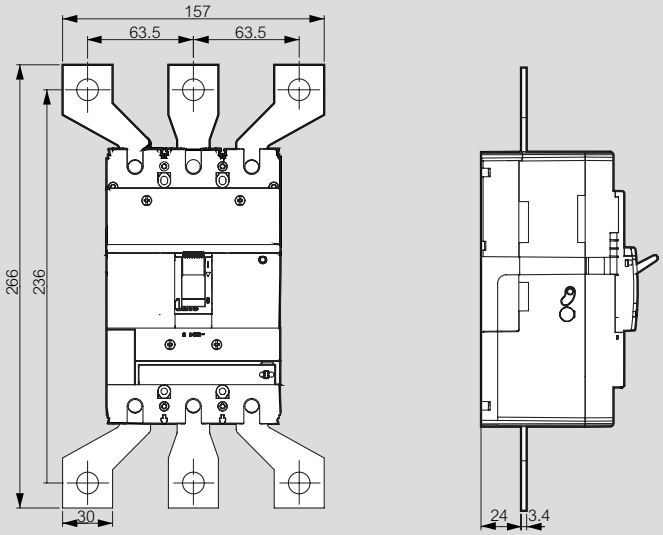
Connection via busbar



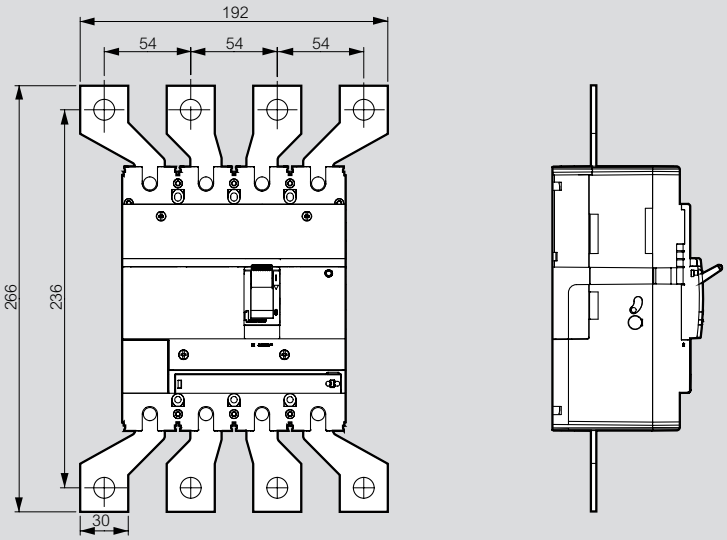




DRX 250HP - 3P



DRX 250HP - 4P



DRX™ 630 adjustable

thermal magnetic MCCBs from 320 to 630 A

6 676 51

6 6766 5

Technical characteristics and curves **p. 24-25**

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

Adjustable thermal and magnetic
Conform to IEC 60947-2

DRX 630

Thermal adjustable from 0.8 to 1 x In
Magnetic adjustable from 5 to 10 x In

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking capacity Icu 36 kA (415 V~)
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~)
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

DRX™ 630

electronic S2/Sg - LSI/LSIg

6 699 34

6 699 39

Technical characteristics and curves **p. -25**

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

Adjustable electronic LSI / LSIg
Conform to IEC 60947-2

DRX 630 electronic S2 - LSI

Overload, Ir (A) 0.4 to 1 In
Overload time delay, tr (s) 3 - 5 - 10 - 15 - 20 - 30
Short circuit, Isd (A) 1.5 to 10 Ir
Short circuit time delay, tsd(s) 0.01 to 0.5
Earth fault, Ig (A)
Earth fault time delay, tg (s)
Switchable Thermal Memory Yes
Overload Pre Alarm I>0.9Ir
Over Temperature Alarm T>90 °C

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking Capacity Icu 36 kA (415 V)
1	6 699 01	6 699 06	320 A
1	6 699 02	6 699 07	400 A
1	6 699 04	6 699 09	630 A
			Breaking Capacity Icu 50 kA (415 V)
1	6 699 11	6 699 16	320 A
1	6 699 12	6 699 17	400 A
1	6 699 14	6 699 19	630 A

DRX 630 electronic Sg - LSIg

Overload, Ir (A) 0.4 to 1 In
Overload time delay, tr (s) 3 - 5 - 10 - 15 - 20 - 30
Short circuit, Isd (A) 1.5 to 10 Ir
Short circuit time delay, tsd(s) 0.01 to 0.5
Earth fault, Ig (A) 0.2 to 1In
Earth fault time delay, tg (s) 0.1 to 1s
Switchable Thermal Memory Yes
Overload Pre Alarm I>0.9Ir
Over Temperature Alarm T>90 °C

Pack	Cat.Nos 3P	Cat.Nos 4P	In
			Breaking Capacity Icu 36 kA (415 V)
1	6 699 21	6 699 26	320 A
1	6 699 22	6 699 27	400 A
1	6 699 24	6 699 29	630 A
			Breaking Capacity Icu 50 kA(415 V)
1	6 699 31	6 699 36	320 A
1	6 699 32	6 699 37	400 A
1	6 699 34	6 699 39	630 A

DRX™ 630 accessories

6 250 04

4 222 42

4 222 48

Pack	Cat.Nos	Rotary handles
		Direct
1	4 201 62	Standard (grey)
		Vari-depth handle
		Comprising: connecting rod, bracket, drilling template, mounting accessories, door locking mechanism
1	4 201 63	Standard (grey)

Pack	Cat.Nos	Connection accessories
		Insulating shields
		Used to isolate the connection between each pole
	0 262 30	Set of 2 pieces
	3P / 4P	**Spreaders**
1	6 250 04 / 6 250 08	Set of incoming or outgoing spreaders

Pack	Cat.Nos	Padlock for DRX 630
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
		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 42	230 V~ and ⎓
1	4 222 43	400 V~ and ⎓
		Undervoltage releases
		Undervoltage power consumption 5 V~
		Coil voltage
1	4 222 48	220-240 V~
1	4 222 49	380-415 V~

DRX™ 630

thermal magnetic MCCBs

Technical characteristics

		DRX 630 - 36 kA	DRX 630 - 50 kA
Number of poles		3P - 4P	3P - 4P
Releases type		thermal-magnetic	
Rated current In (A)		320, 400, 500, 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
Rated frequency (Hz)		50 - 60	50 - 60
Reference ambient temperature Tamb (°C)		40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70
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
	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.lit (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~	5	6
	690 V~	4	5
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
Category of use		A	A
Suitable for isolation		Yes	Yes
Thermal adjustment Ir (A)		0.8 ÷ 0.9 ÷ 1 x In	
Magnetic adjustment Ii (A)		5 ÷ 10 x In	
Endurance (cycles)	mechanical	6000	6000
	electrical at In	2000	2000
	electrical at 0.5 In	4000	4000
Dimensions W x H x D (mm)	3P	140 x 260 x 105	
	4P	184 x 260 x 105	
Weight (kg)	3P	5.20	
	4P	6.85	

Deration chart

Thermal magnetic MCCBs

	Temperature Ta (°C)						
I_n(A)	10	20	30	40	50	60	70
320	416	384	352	320	320	288	256
400	475	460	425	400	400	360	320
500	600	550	525	500	500	455	410
630	700	683	650	630	630	580	530

DRX™ 630 adjustable

electronic version

Technical characteristics

		DRX 630 - 36 kA	DRX 630 - 50 kA	DRX 630 - 36 kA	DRX 630 - 50 kA
Number of poles		3P - 4P	3P - 4P	3P - 4P	3P - 4P
Releases type		Electronic S2	Electronic Sg	Electronic S2	Electronic Sg
Rated current In (A)		40-100-160-250	40-100-160-250	40-100-160-250	40-100-160-250
Rated insulation voltage (50/60Hz) Ui (V)		800	800	800	800
Rated operating voltage (50/60 Hz) Ue (V)		550	550	550	550
Rated impulse withstand voltage Uimp (kV)		8	8	8	8
Rated frequency (Hz)		50 - 60	50 - 60	50 - 60	50 - 60
Reference ambient temperature Tamb (°C)		40 - 50	40- 50	40 - 50	40 - 50
Operating temperature (°C)		-25 to 70	-25 to 70	-25 to 70	-25 to 70
Rated ultimate short-circuit breaking capacity Icu (kA) IEC 60947-2	110/130 V~	70	100	70	100
	220/240 V~	70	100	70	100
	380/415 V~	36	50	36	50
	440/460 V~	30	40	30	40
	480/500 V~	25	30	25	30
	690 V~	14	14	14	14
Rated service short-circuit breaking capacity Ics (% Icu)		100	100	100	100
Rated short-circuit making capacity Icm (at 415 V~)		75.6	105	75.6	105
Neutral protection for 4P version (% Ith)		0-50%-100%	0-50%-100%	0-50%-100%	0-50%-100%
Rated short-circuit breaking capacity on IT system Isu.lit (kA) IEC 60947-2 (Annexes C - H)	110/130 V~	18	25	18	25
	220/240 V~	18	25	18	25
	380/415 V~	9	13	9	13
	440/460 V~	8	10	8	10
	480/550 V~	5	6	5	6
	690 V~	4	5	4	5
Rated ultimate short-circuit breaking capacity Icu (kA) NEMA AB-1	220/240 V~	70	100	70	100
	480/500 V~	25	30	25	30
	690 V~	14	18	14	18
Category of use		A	A	A	A
Suitable for isolation		Yes	Yes	Yes	Yes
Overload, Ir (A)		0.4 to 1 In	0.4 to 1 In	0.4 to 1 In	0.4 to 1 In
Overload time delay, tr (s)		3 - 5 - 10 - 15 -20-30	3 - 5 - 10 - 15 -20-30	3 - 5 - 10 - 15 -20-30	3 - 5 - 10 - 15 -20-30
Short circuit, Isd (A)		1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir	1.5 to 10 Ir
Short circuit time delay, tsd(s)		0.01 to 0.5	0.01 to 0.5	0.01 to 0.5	0.01 to 0.5
Earth fault,Ig (A)			0.2 to 1In		0.2 to 1In
Earth fault time delay, tg (s)			0.1 to 1s		0.1 to 1s
Switchable Thermal Memory		Yes	Yes	Yes	Yes
Overload Pre Alarm		I>0.9Ir	I>0.9Ir	I>0.9Ir	I>0.9Ir
Over Temperature Alarm		T>90 °C	T>90 °C	T>90 °C	T>90 °C
Endurance (cycles)	mechanical	6000			
	electrical at In	2000			
	electrical at 0.5 In	4000			
Dimensions W x H x D (mm)	3P	140 x 260 x 105			
	4P	184 x 260 x 105			
Weight (kg)	3P	5.20			
	4P	6.85			

Deration chart

Electronic MCCBs

	Temperature Ta (°C)		
I_n(A)	up to 50	60	70
320	320	320	320
400	400	360	340
500	500	500	500
630	630	567	536

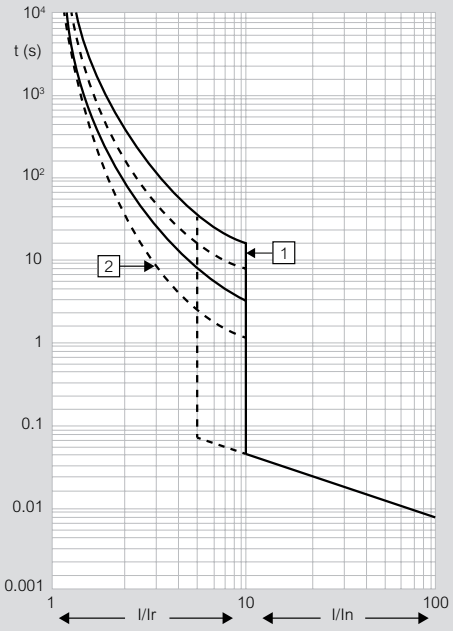
DRX™ 630 and DRX™ 630 adjustable

tripping curves

Curves - DRX 630

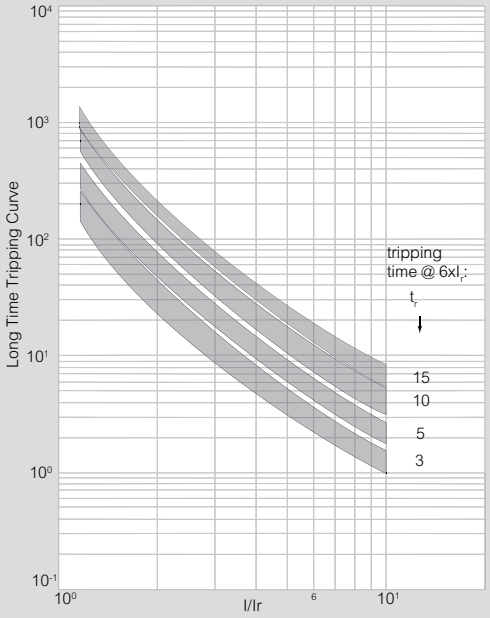
Thermal magnetic version tripping curve

I_{max} = 630 A from 36 kA to 50 kA 3P - 4P

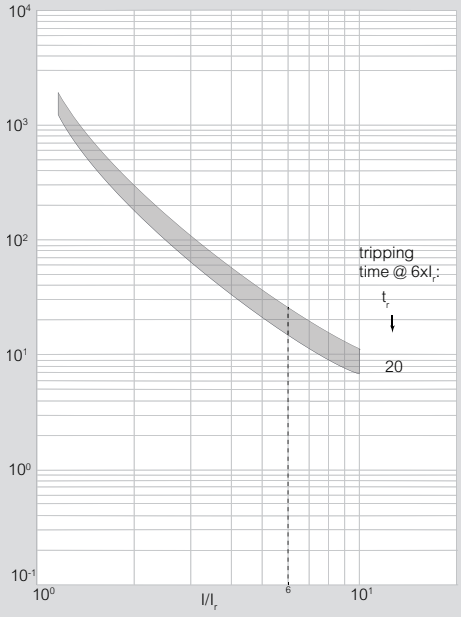


t = time
I = rated current
Ir = setting current
curve 1 = characteristic with cold start
curve 2 = characteristic with hot start

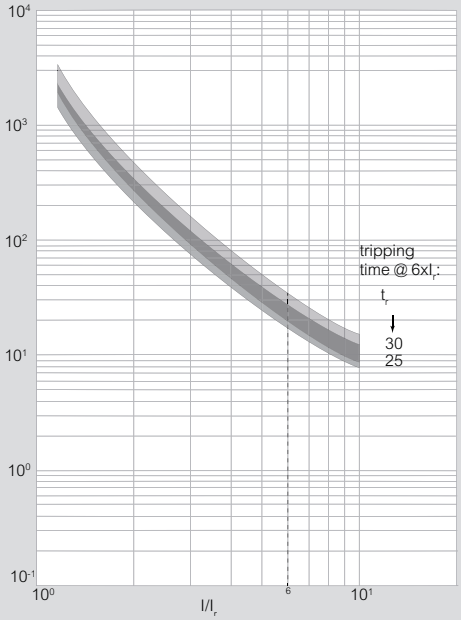
Electronic version overload tripping curve - 3 to 15 sec



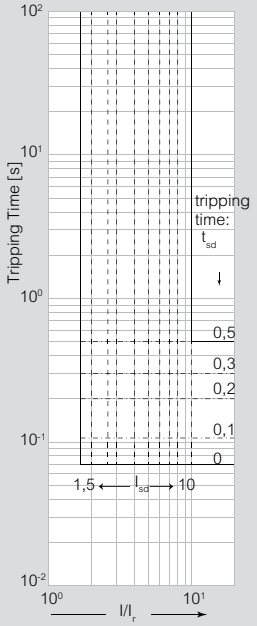
Electronic vesion overload tripping curve - 20 sec



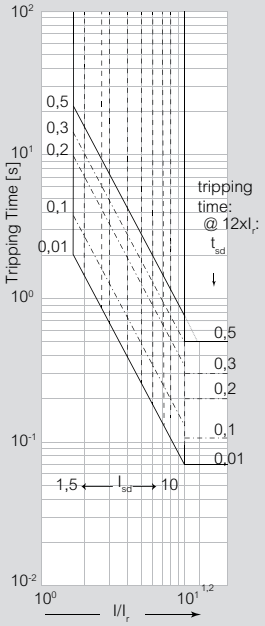
Electronic version overload tripping curve - 25 to 30 sec



Electronic version short circuit tripping curve - I2t OFF



Electronic version Short circuit tripping curve - I2t = K

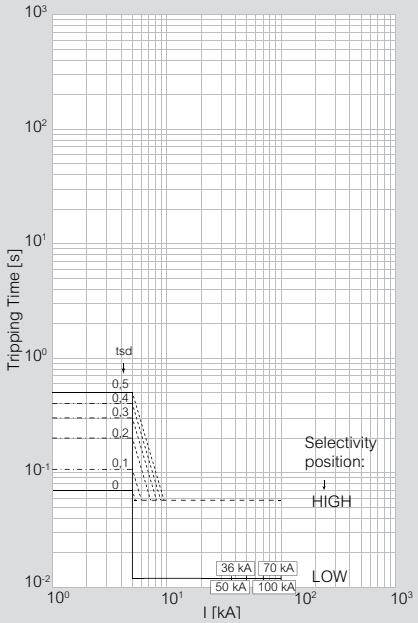


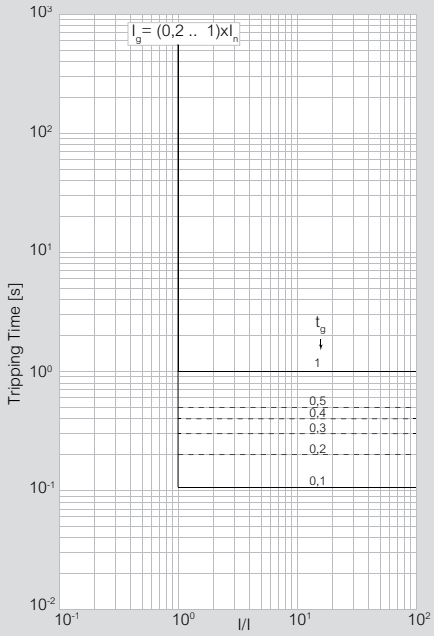
DRX™ 630 and DRX™ 630 adjustable

tripping curves

Curves - DRX 630

Electronic version
Instantaneous tripping curve



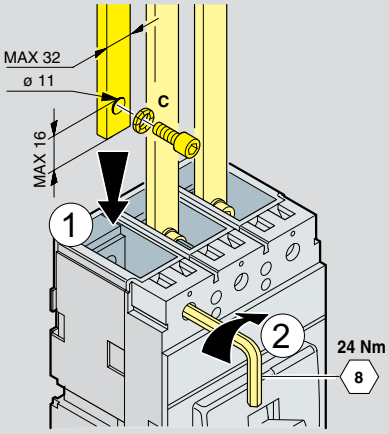


DRX™ 630 and DRX™ 630 adjustable

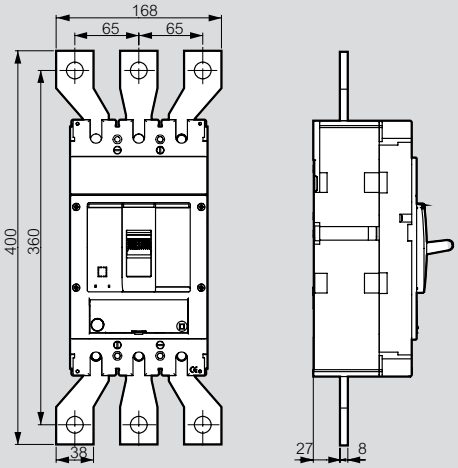
connection

Connection

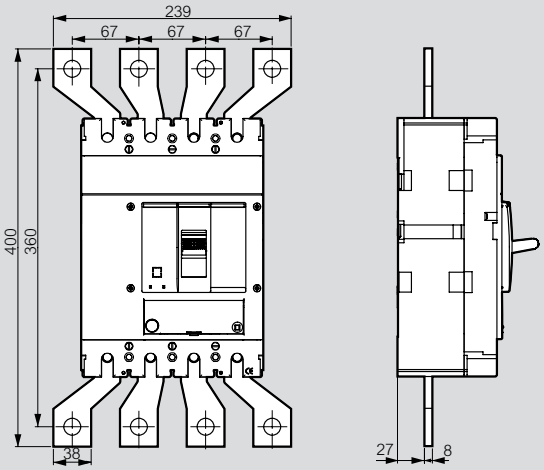
Connection via busbar



DRX630-3P



DRX630-4P

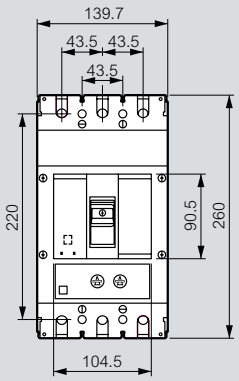


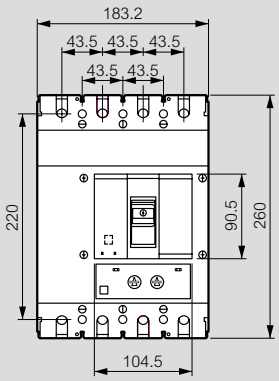
DRX™ 630 and DRX™ 630 adjustable

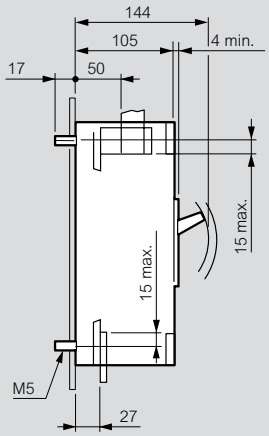
dimensions and mounting principle

Dimensions

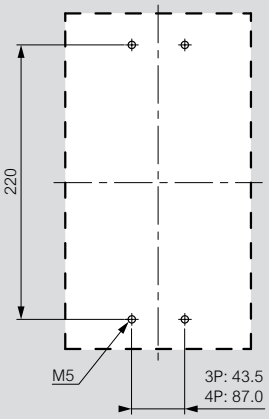
DRX 630 and DRX 630 adjustable



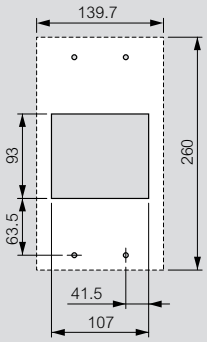


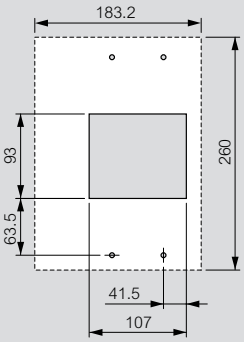


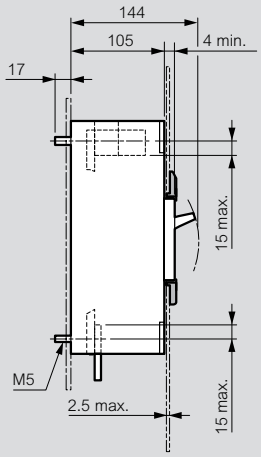
Fixing on plate

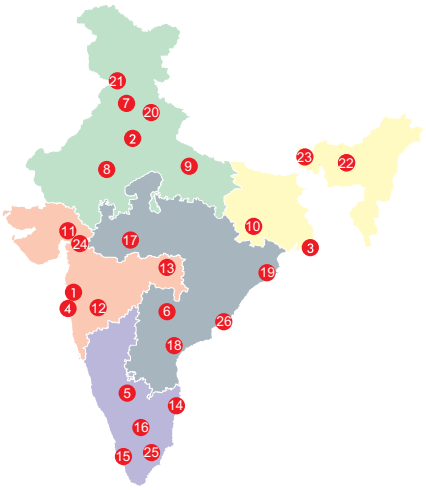


Door cut









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Fax : (040) 4567 1730

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8. 507-510, Vth Floor, Soni Paris Point,
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Vibhuti Khand, Gomti Nagar
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11. A 101-102, Mondeal Heights,
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Highway (S G Highway),
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Behind HP Petrol Pump,
Off Karve Road, Erandwane,
PUNE – 411 004.
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Fax : (020) 6729 5604

13. Plot No.95, II Floor, Shreyash Heights,
VIP Road, Ramdaspeth,
NAGPUR – 440 010.
Tel : (0712) 662 7857 / 858
Fax : (0712) 662 7859

14. 10 B, (10th Floor), Prestige Center Court
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N.S.K. Salai, Vadapalani
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Fax : (0484) 280 1921 / 2921 NCVA

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COIMBATORE – 641 018.
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INDORE – 452 001.
Tel : (0731) 4999 891 / 892

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LUDHIANA – 141 001.
Tel : (0161) 277 0301 / 2 / 3 / 4

23. 94, Udham Singh Sarani,
Ground Floor, Ashrampara,
SILIGURI – 734 001.
Tel : (0353) 264 1067

24. 405, City Centre, Sosyo Circle,
Udhana Magdalla Road,
SURAT - 395 002.
Tel : (0261) 263 3861

25. Aparna Towers, 1st Floor, 2/3, Bypass Road,
MADURAI – 625 010.
Telefax : (0452) 230 8414

26. 404, Eshwar Plaza, Dwaraka Nagar,
Main Road, Beside Bata Show Room,
VISHAKHAPATNAM – 530 016.
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