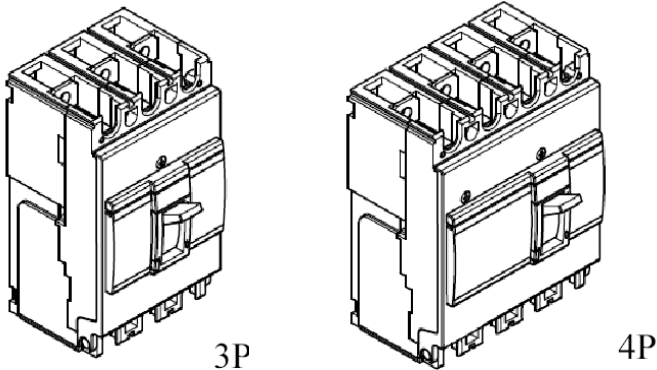


**DRX 250**
**Circuit breaker (not adjustable)**
**References: 271 00/01/02/03/04/05/06/07/08/09/10/11/12  
13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31  
32/33/34/35/ & 272 28/29/30/31/32/33**

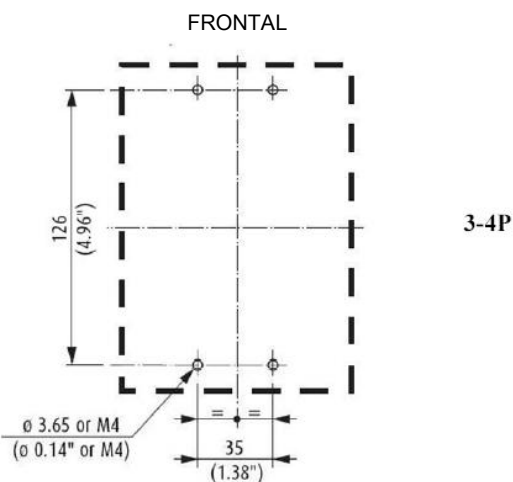
INDEX	PAGES
1. USE	1
2. RANGE	1
3. DIMENSIONS	1
4. MOUNTING	2
5. CABLING	3
6. ELECTRIC AND MECHANICAL FEATURES	3
7. NORMATIVE	4
8. ACCESSORIES	4
9. CURVES	6


**1. USE**

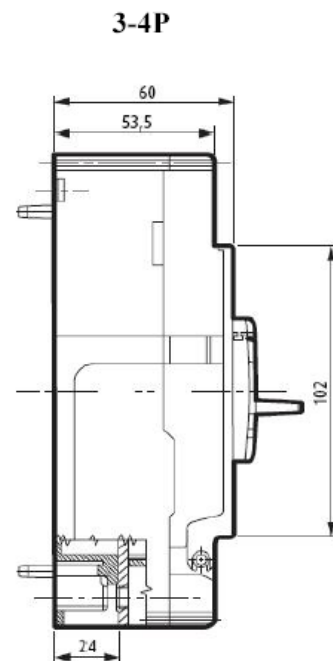
DRX is the range of not adjustable breakers for all the applications of the tertiary and industrial sector including also large assortment of accessories of easy and fast assemblage.

**2. RANGE**

In\Icu	3P			4P		
	18	25	36	18	25	36
125	271 00	271 12	271 24	271 06	271 18	271 30
150	271 01	271 13	271 25	271 07	271 19	271 31
160	272 28	272 30	272 32	272 29	272 31	272 33
175	270 02	271 14	271 26	271 08	271 20	271 32
200	270 03	271 15	271 27	271 09	271 21	271 33
225	270 04	271 16	271 28	271 10	271 22	271 34
250	270 05	271 17	271 29	271 11	271 23	271 35

**3. DIMENSIONS**
**Fixing on Plate:**

**Dimensions :**

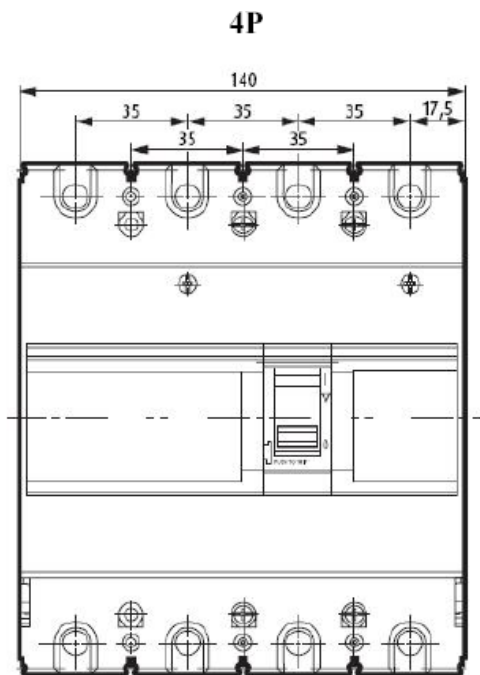
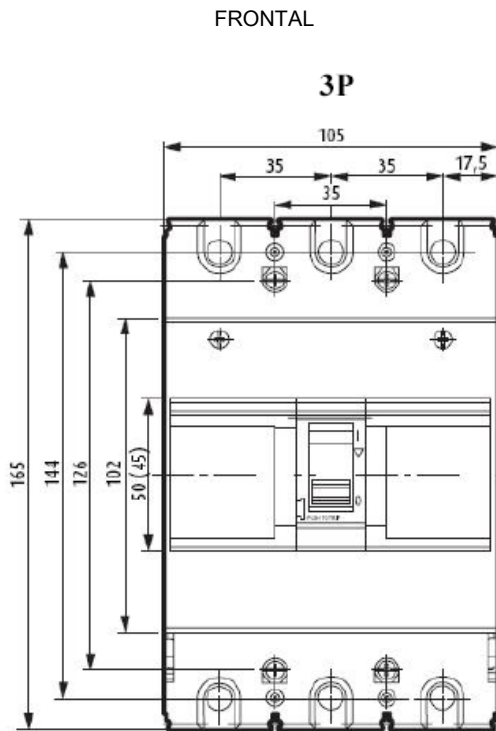
LATERAL



# DRX 250

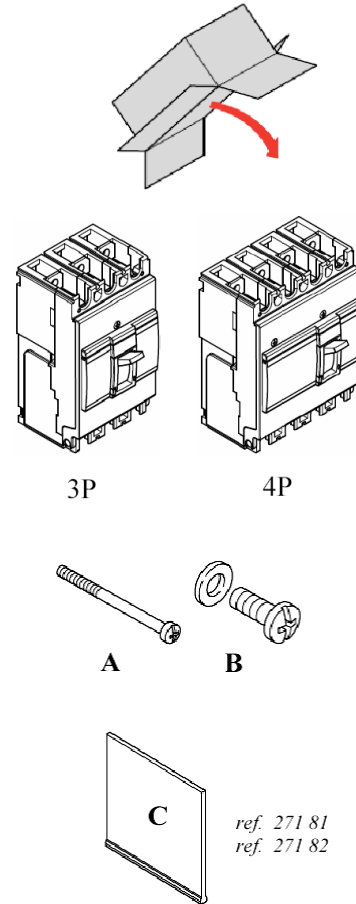
## Circuit breaker (not adjustable)

References: 271 00/01/02/03/04/05/06/07/08/09/10/11/12  
13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31  
32/33/34/35/34/35 & 272 28/29/30/31/32/33



### 4. MOUNTING

#### 4.1 Delivery



#### Quantity of accessories for different circuit breakers (included in the package)

	3P	4P
A*	2	2
B*	6	8
C	2	3

\* the screws are all star configuration



Max torque for screw:

B 5,5 Nm / 49 lb-in

#### 4.2 Possible way to mount

On plate:

- Vertical
- Horizontal

# DRX 250

## Circuit breaker (not adjustable)

References: 271 00/01/02/03/04/05/06/07/08/09/10/11/12  
13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31  
32/33/34/35/34/35 & 272 28/29/30/31/32/33

### 5. CABLING

#### Cables:

#### CAGES TERMINAL – Al/Cu Cables

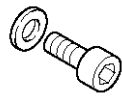
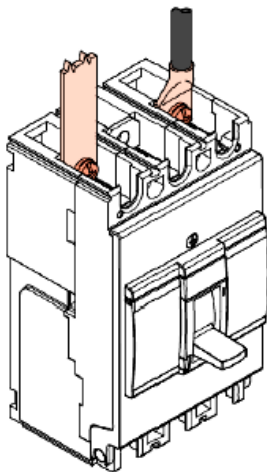
Up to 250A – 170mm<sup>2</sup> or 300MCM

Kit of 3 p.ces ref. 271 74  
Kit of 4 p.ces ref. 271 75  
Kit of 60 p.ces ref. 271 94

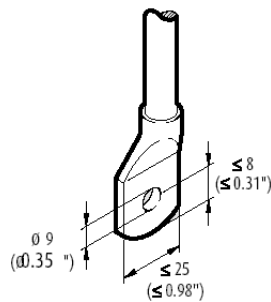
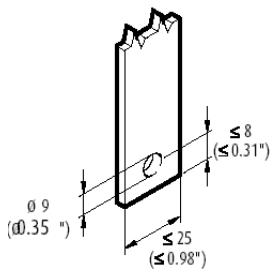


#### Bars:

#### BUSBAR CONNECTION - Al/Cu bars

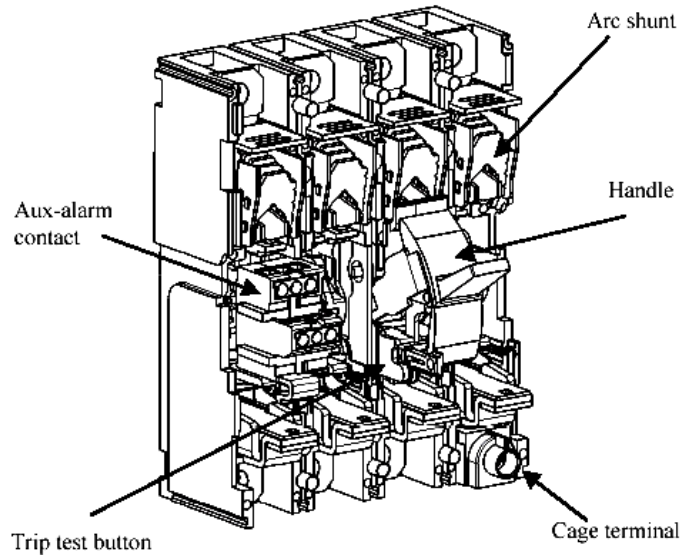


M8 x 16  
8...13 Nm/71...115 lb-in.



### 6. ELECTRIC AND MECHANICAL FEATURES

#### 6.1 Main pieces constituting the breaker



#### 6.2 Breaking capacity (kA)

		Breaking Capacity and Ics			
		Ue/Icu	3P & 4P		
			18kA	25kA	36kA
Iec	110/130V ac		50	70	85
	220/240V ac		50	70	85
	277V ac		-	-	-
	380/415V ac		18	25	36
	440/460V ac		15	22	30
	480/550V ac		5	6	8
Nema	220/240V ac		50	70	85
	480/550V ac		5	6	8
Ics (% Icu)			100	75	50

# DRX 250

## Circuit breaker (not adjustable)

References: 271 00/01/02/03/04/05/06/07/08/09/10/11/12  
13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31  
32/33/34/35/34/35 & 272 28/29/30/31/32/33

### 6.3 General Features

Breaker	DRX 250
Nominal current	125-150-160-175-200-225-250
Poles	3 & 4
Rated insulation voltage $U_i$ (V)	690
Rated operating voltage (50/60 Hz) $U_e$ (V)	550
Rated impulse withstand current $I_{imp}$ (kV)	6
Nominal frequency (Hz)	50-60
Temperature of functioning	from -25°C up to 70°C
Endurance:	
mechanical	25000
electrical at $I_n$	8000
electrical at 0,5 $I_n$	10000
Utilization category	A
Suitable for isolation	Yes
Type of protection	thermal-magnetic
Magnetic adjustable	no
Thermic adjustable	no
Dimensions (wxhxd) (mm)	35(xP) x 115 x 60
Neutral protection for 4P version (%)	100

Magnetic limit $I_{sd}$ (A)							
$I_n$ (A)	125	150	160	175	200	225	250
$I_{sd}$ (1x $I_n$ )	10	10	10	10	10	10	10
$I_{sd}$ (A)	1250	1500	1600	1750	2000	2250	2500

### 6.4 Power dissipated by pole under $I_n$

$I_n$ (A)	125	150	160	175	180	200	225	250
$E_n$ (W)	11,7	10,1	11,5	13,8	14,6	18	22,8	21,9

### 6.5 Functioning in particular condition

#### 6.5.1 Temperature

Ambient temperature												
°C	-25	-20	-10	-5	0	10	20	30	40	50	60	70
$I_n$ (A)												
125	188	173	169	166	163	155	140	130	125	125	120	95
150	221	217	213	209	205	195	185	165	150	150	135	115
160	236	231	227	223	219	208	197	176	160	160	144	123
175	251	245	240	236	231	220	205	190	175	175	160	145
180	257	252	247	243	238	227	214	196	180	180	164	146
200	279	273	268	262	257	245	235	215	200	200	185	170
225	302	290	284	278	273	260	250	240	225	225	210	200
250	335	330	323	317	310	295	285	270	250	250	235	215

#### 6.5.2 Altitude

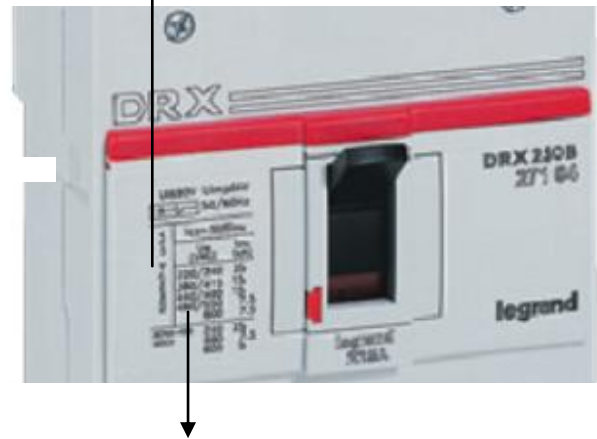
DRX	Altitude (m)			
	2000	3000	4000	5000
Rated current (A)	1 x $I_n$	0,98 x $I_n$	0,93 x $I_n$	0,9 x $I_n$
Rated voltage (V)	690	590	520	460

## 7. NORMATIVE

IEC 60947-2 → LOVAG Certification → CB Scheme Certification  
In compliance with NEMA standards

### 7.1 MARKING

Références normatives



Identification of the breaking capacity

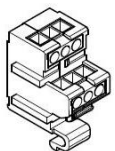
"Tropicalisation" :

- exécution II (tous climats) selon guide UTE C63100

## 8. ACCESSORIES

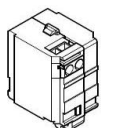
### 8.1 Auxiliary and Alarm Contacts :

Auxiliary Contact *ref. 271 40*  
Alarm Contact *ref. 271 41*  
Auxiliary + Alarm Contact *ref. 271 42*



### 8.2 Shunt Trips:

12 V = and ~ *ref. 271 50*  
24 V = and ~ *ref. 271 51*  
48 V = and ~ *ref. 271 52*  
110/130 V ~ *ref. 271 53*  
200/277 V ~ *ref. 271 54*  
380/480 V ~ *ref. 271 55*



# DRX 250

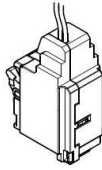
## Circuit breaker (not adjustable)

References: 271 00/01/02/03/04/05/06/07/08/09/10/11/12  
13/14/15/16/17/18/19/20/21/22/23/24/25/26/27/28/29/30/31  
32/33/34/35/34/35 & 272 28/29/30/31/32/33

Shunt trip	-ST-
circuit breaker's opening time	<= 3ms
maximum peak current $V_n=12Vac$	15 A
maximum peak current $V_n=24Vac$	7,5 A
maximum peak current $V_n=48Vac$	5,5 A
maximum peak current $V_n=60Vac$	4,5 A
maximum peak current $V_n=110Vac$	2,5 A
maximum peak current $V_n=230Vac$	1,5 A
maximum peak current $V_n=415Vac$	0,9 A
maximum power	400VA - 400W

### 8.3 Undervoltage Releases:

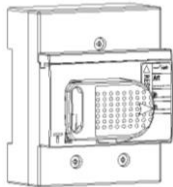
12 V = and ~	<i>ref. 271 60</i>
24 V = and ~	<i>ref. 271 61</i>
48 V = and ~	<i>ref. 271 62</i>
110/130 V ~	<i>ref. 271 63</i>
200/240 V ~	<i>ref. 271 64</i>
277 V ~	<i>ref. 271 67</i>
380/415 V ~	<i>ref. 271 65</i>
440/480 V ~	<i>ref. 271 66</i>



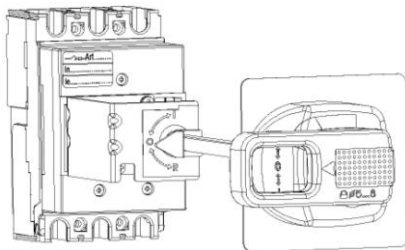
Under Voltage Release	-UVR-
circuit breaker's opening time	<= 3ms
maximum power 277-380-440-480V	<= 4VA

### 8.4 Rotary handle :

Direct *ref. 271 78*



Vary-depth *ref. 271 79*

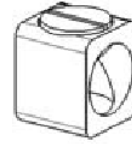


### 8.5 Cage Terminals :

#### Capacity:

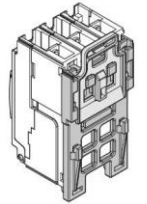
- Flexible cable → from 25mm<sup>2</sup> to 125mm<sup>2</sup> (# 2 to # 6 AWG)
- Solid cable → from 25mm<sup>2</sup> to 150mm<sup>2</sup> (# 14 to # 4 AWG)

**Set :** 3 Cage terminals for DRX250 3P *ref. 271 74*  
4 Cage terminals for DRX250 4P *ref. 271 75*  
60 Cage terminals for DRX250 *ref. 271 94*



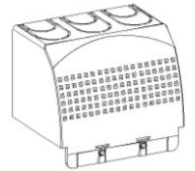
### 8.6 Montage sur rail DIN

Adaptateur *ref. 271 88*



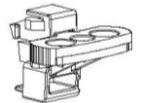
### 8.7 Insulating Shield

Set of 2 insulating shield for 3poles *ref. 271 85*  
Set of 2 insulating shield for 3poles *ref. 271 86*



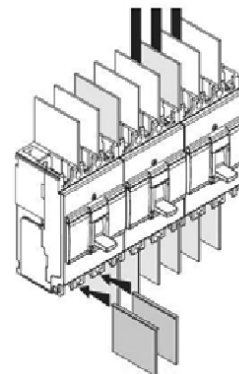
### 8.8 Padlock device

Plastic padlock device *ref. 271 80*



### 8.9 Insulating Shield

Shielded for 3P *ref. 271 81*  
Shielded for 4P *ref. 271 82*

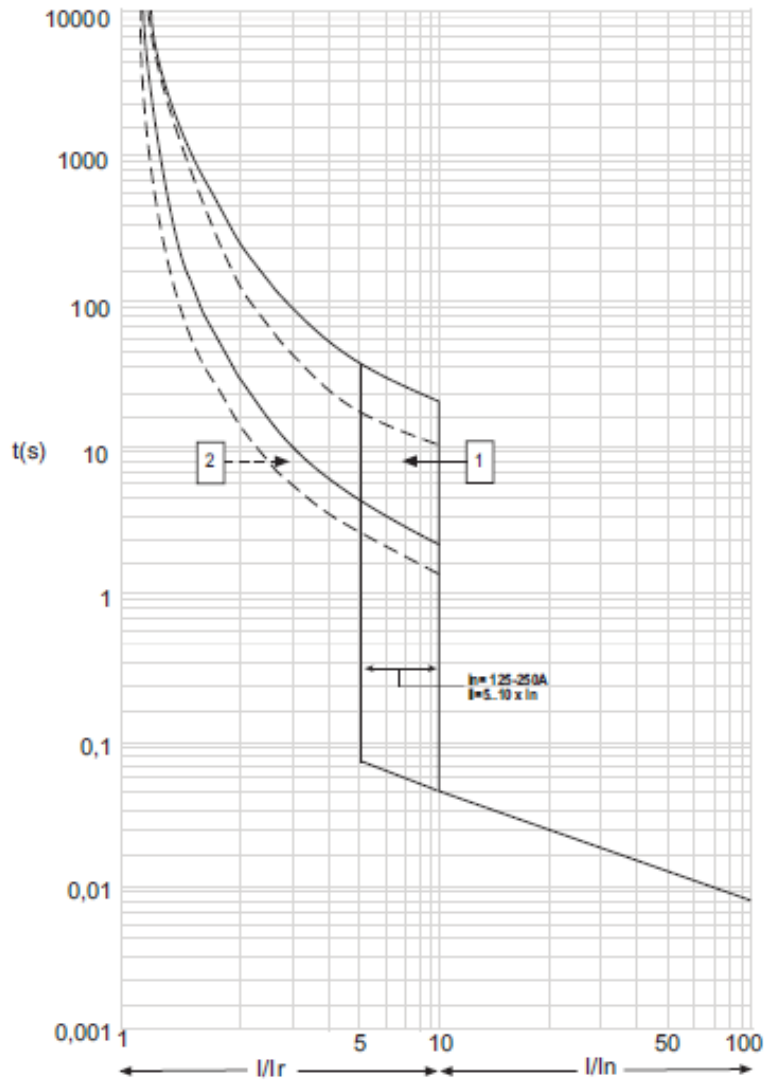


9. CURVES

9.1 Thermal magnetic characteristic curve

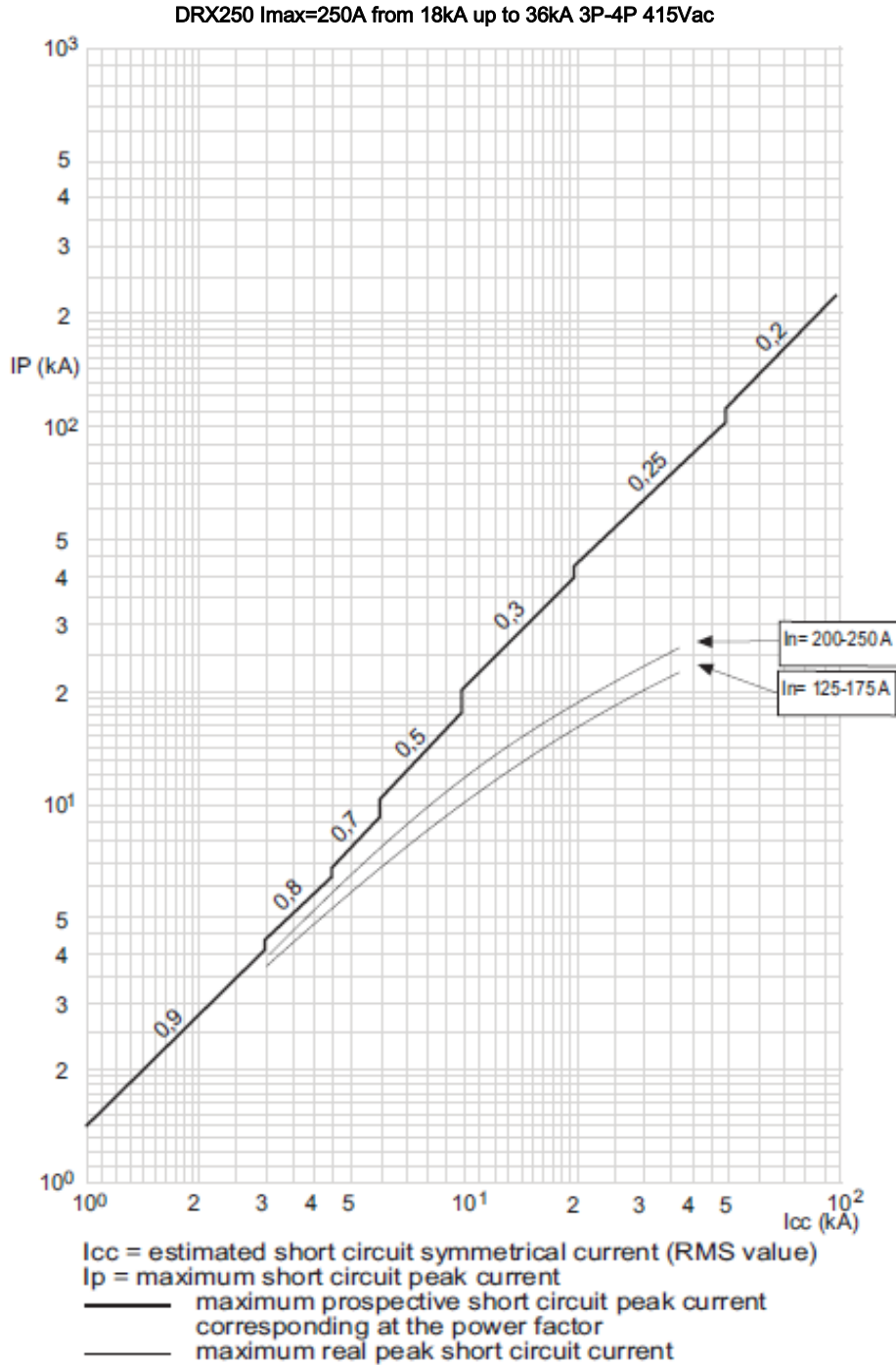
Rated operating voltage <b>U<sub>e</sub></b> (50/60 Hz)	550 Vac	Nominal Current <b>I<sub>n</sub></b>	125 – 250 A
Rated insulation voltage <b>U<sub>i</sub></b>	690 Vac	Category of employment:	A
Rated impulse withstand current <b>U<sub>imp</sub></b>	6 kV	Compliant to the norm:	IEC 60947-2

DRX 250 I<sub>max</sub> = 250A  
Easytiker 250



t = time  
 I<sub>test</sub> = test current  
 I<sub>r</sub> = current setting  
 I<sub>n</sub> = rated current  
 Curve n°1 = characteristic with cold start ———  
 Curve n°2 = characteristic with hot start - - - - -

9.2 Cut-off peak current characteristic curve (kA)





9.3 Pass-through specific energy characteristic curve

DRX250 I<sub>max</sub>=250A from 18kA up to 36kA 3P-4P 415Vac

