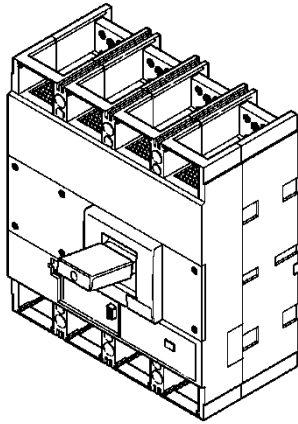


# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497



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### 1. USE

DPX<sup>3</sup> "moulded case" circuit breaker offers optimal solutions to answer to protection requirements of tertiary and industrial installations.

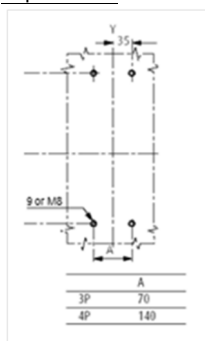
### 2. RANGE

I <sub>n</sub> (A)	36 kA			50 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
500	422250	422255	-	422262	422267	-
630	422251	422256	-	422263	422268	-
800	422252	422257	-	422264	422269	-
1000	422253	422258	422260	422265	422270	422272
1250	422254	422259	422261	422266	422271	422273
I <sub>n</sub> (A)	70 kA			100 kA		
	3P	4P	3P + N/2	3P	4P	3P + N/2
500	422274	422279	-	422286	422291	-
630	422275	422280	-	422287	422292	-
800	422276	422281	-	422288	422293	-
1000	422277	422282	422284	422289	422294	422296
1250	422278	422283	422285	422290	422295	422297

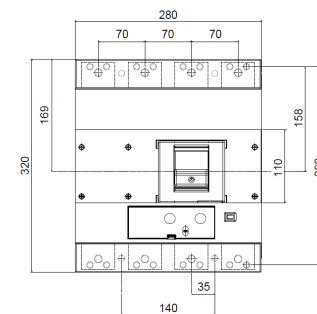
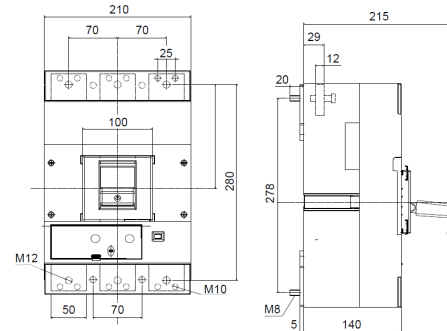
I <sub>n</sub> (A)	DPX <sup>3</sup> -I	
	3P	4P
500	-	-
630	422490	422494
800	422491	422495
1000	-	-
1250	422492	422496
1600	422493	422497

### 3. DIMENSIONS

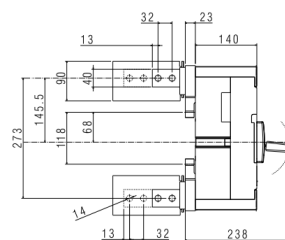
#### Implantation



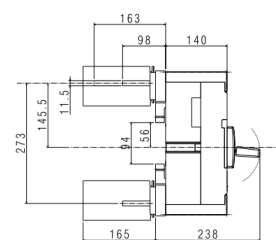
#### Front terminals, fixed version



#### Vertical



#### Horizontal



# DPX<sup>3</sup> 1600

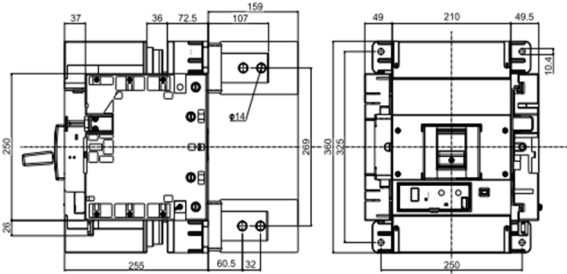
## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

### 3. DIMENSIONS (NEXT)

Draw-out version, rear terminals



### 4. OVERVIEW

#### 4.1 Supplied

Supplied with

- fixing screws
- connection plates for bars (width 50mm max)
- phase insulators
- sealable terminal shields

#### 4.2 Mounting possibilities

On plate :

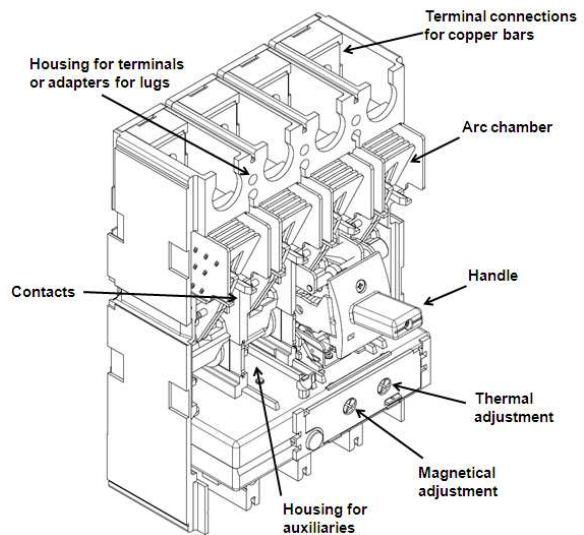
- Vertical
- Horizontal
- Supply inverter type

### 5. ELECTRICAL AND MECHANICAL CHARACTERISTICS

Circuit Breaker	DPX <sup>3</sup> 1600 F/N/H/L (36 kA, 50 kA, 70 kA, 100 kA)
Nominal current I <sub>n</sub> (A)	500, 630, 800, 1000, 1250
Poles	3 - 4
Rated insulation voltage U <sub>i</sub> (V)	1000
Rated operating voltage (50/60Hz) U <sub>e</sub> (V)	690
Rated impulse withstand current U <sub>imp</sub> (kV)	8
Nominal frequency (Hz)	50 - 60
Functioning temperature (°C)	40 - 50
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	10000
Mechanical endurance with motor control (cycles)	5000
Electrical endurance at I <sub>n</sub> (cycles)	4000
Electrical endurance at 0.5 I <sub>n</sub> (cycles)	8000
Utilization category	A
Suitable for isolation	Yes
Type of protection	Thermal-magnetic
Magnetic adjustment	(5 ÷ 10) × I <sub>n</sub>
Thermal adjustment	(0.8 ÷ 1) × I <sub>n</sub>
Neutral protection for 4P version (%I <sub>n</sub> )	100
Dimensions (W x H x D) (mm)	280(4P) x 320 x 140
Weight (kg)	13.9(3P) - 17.6(4P)

Switch	DPX <sup>3</sup> -I
Nominal current I <sub>n</sub> (A)	630 - 800 - 1250 - 1600
Rated closing capacity on short-circuit I <sub>cm</sub> (kA)	17 (up to 800A) - 24 (up to 1000A) - 40 (up to 1600A)
Utilization category	AC23A
Short-time resistive current I <sub>cs</sub> (kA) for 1s	10 (up to 800A) - 12 (up to 1000A) - 20 (up to 1600A)
Isolated voltage U <sub>i</sub> (V AC)	1000
Maximum rated operating voltage (50/60Hz) U <sub>e</sub> (V)	690
Rated impulse withstand voltage U <sub>imp</sub> (kV)	8
Nominal frequency (Hz)	50 - 60
Operating temperature (°C)	-25 ÷ 70
Mechanical endurance (cycles)	10000
Mechanical endurance with motor control (cycles)	5000
Electrical endurance (cycles)	4000
Electrical endurance at 0.5 I <sub>n</sub> (cycles)	8000
Dimensions (W x H x D) (mm)	280(4P) x 320 x 140
Weight (kg)	13.6(3P) - 17.4(4P)

#### 5.1 Main parts constituting the circuit breaker



# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

#### 5.2 Breaking capacity (kA)

Breaking capacity (kA) and I <sub>cs</sub>				
	3P-4P	3P-4P	3P-4P	3P-4P
U <sub>e</sub> /I <sub>cu</sub>	F	N	H	L
240 V AC	70	100	120	150
415 V AC	36	50	70	100
500 V AC	25	35	45	55
690V AC	14	20	22	25
250 V DC	35	35	35	35
I <sub>cs</sub> (% I <sub>cu</sub> )	100	100	100	70
Rated making capacity under short circuit I <sub>cm</sub>				
I <sub>cm</sub> (kA) at 415V	75.6	105	154	220

#### 5.3 Nominal current (I<sub>n</sub>) at 40 °C / 50 °C

I <sub>n</sub> (A)	Assigned current trip					
	Thermal			Magnetic		
	L1 - L2 - L3	N	N/2	L1 - L2 - L3	N	N/2
500	500	500	-	2500 ÷ 5000	2500 ÷ 5000	-
630	630	630	-	3150 ÷ 6300	3200 ÷ 6300	-
800	800	800	-	4000 ÷ 8000	4000 ÷ 8000	-
1000	1000	1000	630	5000 ÷ 10000	5000 ÷ 10000	3200 ÷ 6300
1250	1250	1250	800	6250 ÷ 12500	6250 ÷ 12500	4000 ÷ 8000

#### 5.4 Power losses per pole under I<sub>n</sub>

Circuit breaker

	Power losses per pole (W)				
	I <sub>n</sub> (A)				
	500	630	800	1000	1250
Rear terminals - Fixed version	30.7	47.7	46.2	53.7	99.4
Front terminals - Fixed version	30.0	46.4	44.8	53.0	96.9
Front terminals - D-O version	52.3	81.0	78.1	92.0	170.3
Rear terminals - D-O version	38.5	59.9	57.6	68.0	125.0

Switch

	Power losses per pole (W)			
	I <sub>n</sub> (A)			
	630	800	1250	1600
Rear terminals - Fixed version	50.8	29.8	74.4	65.3
Front terminals - Fixed version	49.6	29.4	73.4	58.9
Front terminals - D-O version	86.5	51.2	128.1	112.6
Rear terminals - D-O version	63.9	38.4	93.8	97.3

#### 5.5 Functioning in particular conditions

#### 5.5.1 Temperature

I <sub>n</sub> (A)	Temperature T <sub>a</sub> (°C)						
	10	20	30	40	50	60	70
500	605	570	535	500	500	430	395
630	743	705	668	630	630	555	518
800	944	896	848	800	800	704	656
1000	1180	1120	1060	1000	1000	880	820
1250	1475	1400	1325	1250	1250	1100	1025

For derating temperature with other configuration, see table A.

#### 5.5.2 Altitude

Altitude (m)	2000	3000	4000	5000
U <sub>e</sub> (V)	690	590	520	460
I <sub>n</sub> (A) (T <sub>a</sub> = 40°C/50°C)	1 x I <sub>n</sub>	0.98 x I <sub>n</sub>	0.93 x I <sub>n</sub>	0.90 x I <sub>n</sub>

#### 5.5.3 Use in DC

See table B.

### 6. CONFORMITY

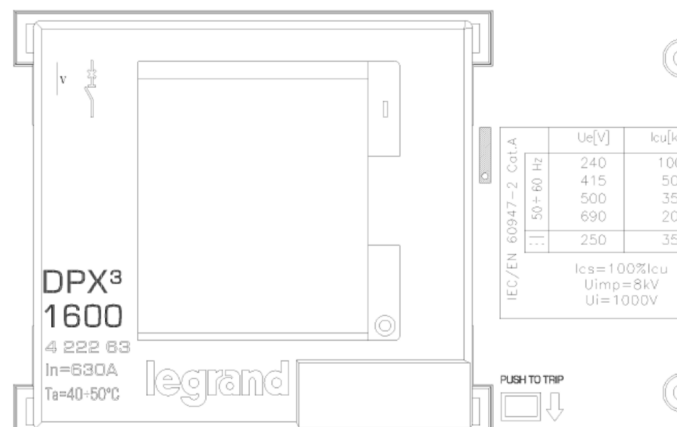
DPX<sup>3</sup> range of product concerning circuit-breakers and switch-disconnectors are in full compliance with the EN/IEC standard 60947-2 and 60947-3 respectively.

The certificate are issued by LOVAG and/or by IECEE CB-scheme certification scheme.

All the product range are CE, CCC, EAC, ANCE marked.

DMX<sup>3</sup> are full in compliance with the Shipping Register of Lloyds, RINA, Bureau Veritas, Germanische Lloyds, Norske Veritas and ABS.

#### 6.1 MARKING



" Tropical climate " :

- execution II (all climates) according to guide UTE C63100

# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

## 7. EQUIPMENTS AND ACCESSORIES

### 7.1 Releases

- shunt releases (Power consumption= 300 VA) with voltage
  - 24 V AC and DC ref. 4 222 39
  - 48 V AC and DC ref. 4 222 40
  - 110 V AC and DC ref. 4 222 41
  - 230 V AC and DC ref. 4 222 42
  - 400 V AC and DC ref. 4 222 43

- undervoltage releases (Power consumption = 5 VA) with voltage
  - 24 V DC ref. 4 222 44
  - 24 V AC ref. 4 222 45
  - 48 V DC ref. 4 222 46
  - 110 V AC ref. 4 222 47
  - 230 V AC ref. 4 222 48
  - 400 V AC ref. 4 222 49

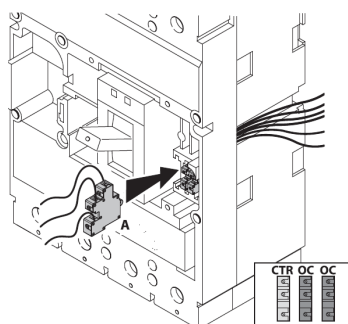
- time-lag undervoltage releases (800 ms)
  - Time-lag modules with voltage
    - 24 V AC and DC ref. 0 261 92
    - 230 V AC ref. 0 261 90
    - 400 V AC ref. 0 261 91
    - Universal Release ref. 4 226 23

### 7.2 Auxiliary contact

- Changeover switch 3A – 250 V AC ref. 4 210 11
- To show the state of the contacts or opening of the DPX<sup>3</sup> on a fault:
  - Auxiliary contact (standard) **C**
  - Fault signal **S**

Auxiliary contact		
Nominal voltage (V <sub>n</sub> )	V (AC or DC)	24 to 250
Intensity (A)	24 V DC	5
	48 V DC	1.7
	110 V DC	0.5
	230 V DC	0.25
	110 V AC	4
	230/250 V AC	3

3 auxiliary contact + 1 fault signal (max) + 1 release



### 7.3 Rotary handles

- Standard (black) ref. 0 262 61

#### Vari-depth handle IP55

- Standard (black) ref. 0 262 83
- For emergency use (red / yellow) ref. 0 262 84
- Adapting on standard handle ref. 0 262 84

#### Locking accessories (for vary-depth handle with auxiliary option)

- Key barrel and flat key (cod. ABA90GEL6149) ref. 0 262 93
- Key barrel and star key (cod. HBA90GPS6149) ref. 0 262 94
- Key barrel and flat key fixed (cod. EL43525) ref. 4 228 04
- Key barrel and flat key fixed (cod. EL43363) ref. 4 228 05

#### Locking accessories (for direct handle)

- Key barrel and flat key ref. 0 262 25

### 7.4 Motor-driven handles

#### Factory assembled

##### Front operated

- Voltage 24 V AC-DC ref. 0 261 50
- Voltage 48 V AC-DC ref. 0 261 51
- Voltage 230 V AC ref. 0 261 54

#### Customer assembled

##### Front operated (I<sub>n</sub> ≤ 1250A)

- Voltage 24 V AC and DC ref. 0 261 24
- Voltage 48 V AC and DC ref. 0 261 25
- Voltage 110 V AC ref. 0 261 26
- Voltage 230 V AC for rating up to 1250A ref. 0 261 23

##### Front operated (I<sub>n</sub>=1600A)

- Voltage 24 V AC and DC ref. 0 261 19
- Voltage 48 V AC and DC ref. 0 261 28
- Voltage 110 V AC ref. 0 261 29
- Voltage 230 V AC ref. 0 261 27

#### Locking accessories

- Ronis type flat key (cod. ABA90GEL6149) ref. 0 261 59
- Profalux type star key (cod. HBA90GPS6149) ref. 0 261 58

### 7.5 Mechanical accessories

#### Phase insulators

- Set of 3 ref. 0 262 66

#### Sealable terminal shields

- Set of 2 3P ref. 0 262 64
- Set of 2 4P ref. 0 262 65

#### Padlock

- Accessories to lock in open position ref. 0 262 60

#### Terminal covers to guarantee IP20

- Set of 2 3P ref. 4 225 90
- Set of 2 4P ref. 4 225 91
- External neutral ref. 4 225 92

### 7.6 Connection accessories

#### Cage terminals

- Set of 4 terminals for cables 2x240mm<sup>2</sup> max (rigid) or 2x185mm<sup>2</sup> max (flexible) (Cu/Al) ref. 0 262 69
- Set of 4 terminals for cables 4x240mm<sup>2</sup> max (rigid) or 4x185mm<sup>2</sup> max (flexible) (Cu/Al) ref. 0 262 70

#### Extended front terminals

- Short terminals for 500 - 1250A (2 bars max. per pole) ref. 0 262 67
- Long terminals for 1600A (3 bars max. per pole) ref. 0 262 68

#### Spreaders

- Set of 3 (incoming or outgoing 3P) ref. 0 262 73
- Set of 4 (incoming or outgoing 4P) ref. 0 262 74

#### Rear terminals

(use to connect fixed version with front terminals into fixed version with rear terminal)

- Set of swivel terminals, incoming or outgoing
  - 3P ref. 0 263 80
  - 4P ref. 0 263 82
- Set of flat rear terminals, incoming or outgoing
  - 3P ref. 0 263 81
  - 4P ref. 0 263 83

# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/  
262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/  
278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/  
294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

#### 7.7 Draw-out version

(A DPX<sup>3</sup> draw-out version is a plug-in DPX<sup>3</sup> fitted with a "Débro-lift" mechanism which can be used to withdraw the DPX<sup>3</sup> while keeping it on its base)

##### Draw-out base

Base for DPX<sup>3</sup> 1600 supplied not with "Débro-lift" assembled a rigid slide and handle for drawing-out

- Front terminals

3P	ref. 4 225 86
4P	ref. 4 225 87
- Rear terminals

3P	ref. 4 225 88
4P	ref. 4 225 89

##### "Débro-lift" mechanism

Suitable for turning a fixed circuit-breaker into the moving part of a withdrawable circuit breaker

- Mobile part for draw-out version

3P	ref. 4 225 93
4P	ref. 4 225 94

##### Key lock for "Débro-lift" mechanism

- One key for DPX<sup>3</sup> only
  - Ronis type flat key (cod. ABA90GEL6149)  
ref. 0 265 76
  - Profalux type star key (cod. HBA90GPS6149)  
ref. 0 263 48
- Two keys (one key supplied) for motorized DPX<sup>3</sup> or with rotary handle
  - Ronis type flat key (cod. ABA90GEL6149)  
ref. 0 265 80
  - Profalux type star key (cod. HBA90GPS6149)  
ref. 0 265 79

##### Accessories for "Débro-lift" mechanism

- Isolated handle for drawing-out ref 0 265 75
- Signal contact (plugged-in / drawn-out) ref 0 265 74
- Set of connectors (8 contacts) ref 0 263 99
- Set of connectors (6 contacts) ref 0 263 19
- Support plate for draw-out version ref 4 225 95
- Automatic auxil. contacts (12 pin) for D/O version ref.4 222 30

# DPX<sup>3</sup> 1600

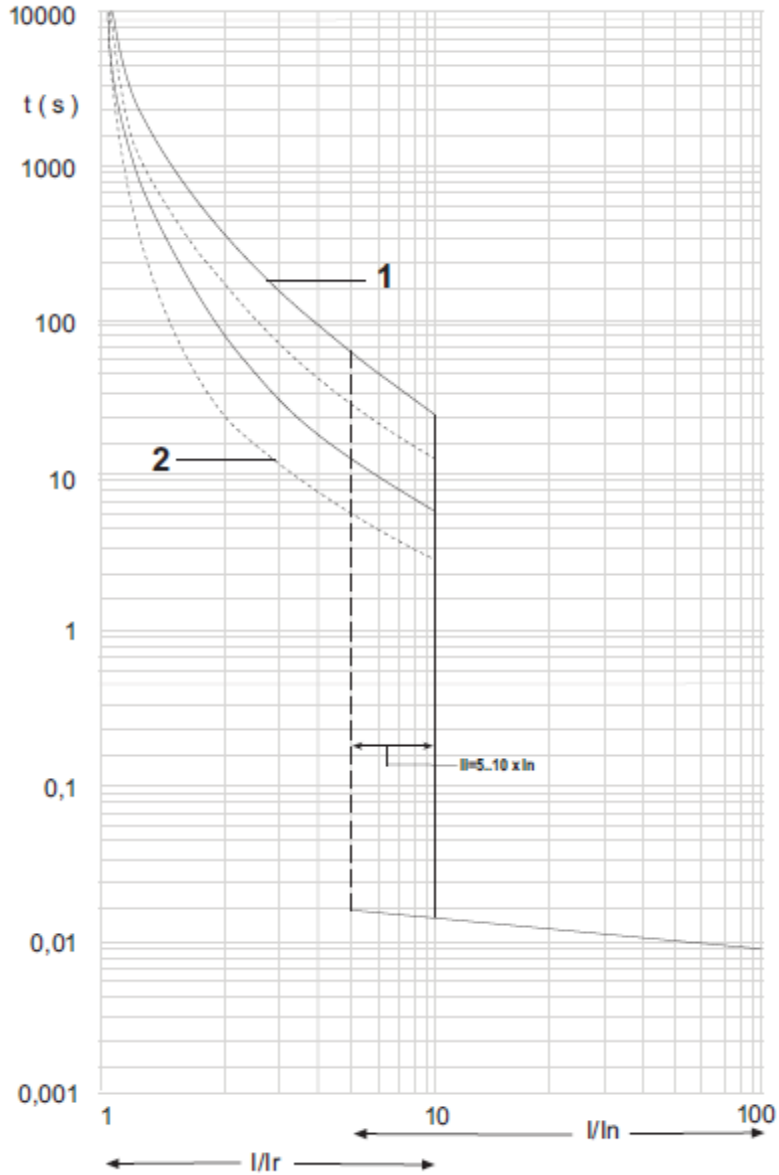
## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

#### 8. CURVES

##### 8.1 TRIPPING CURVE (up to 800A)



$I_{cu} = 36-50-70-100 \text{ kA}$   $I_{max} = 800A$  3-4 P  $U_e = 415Vac$

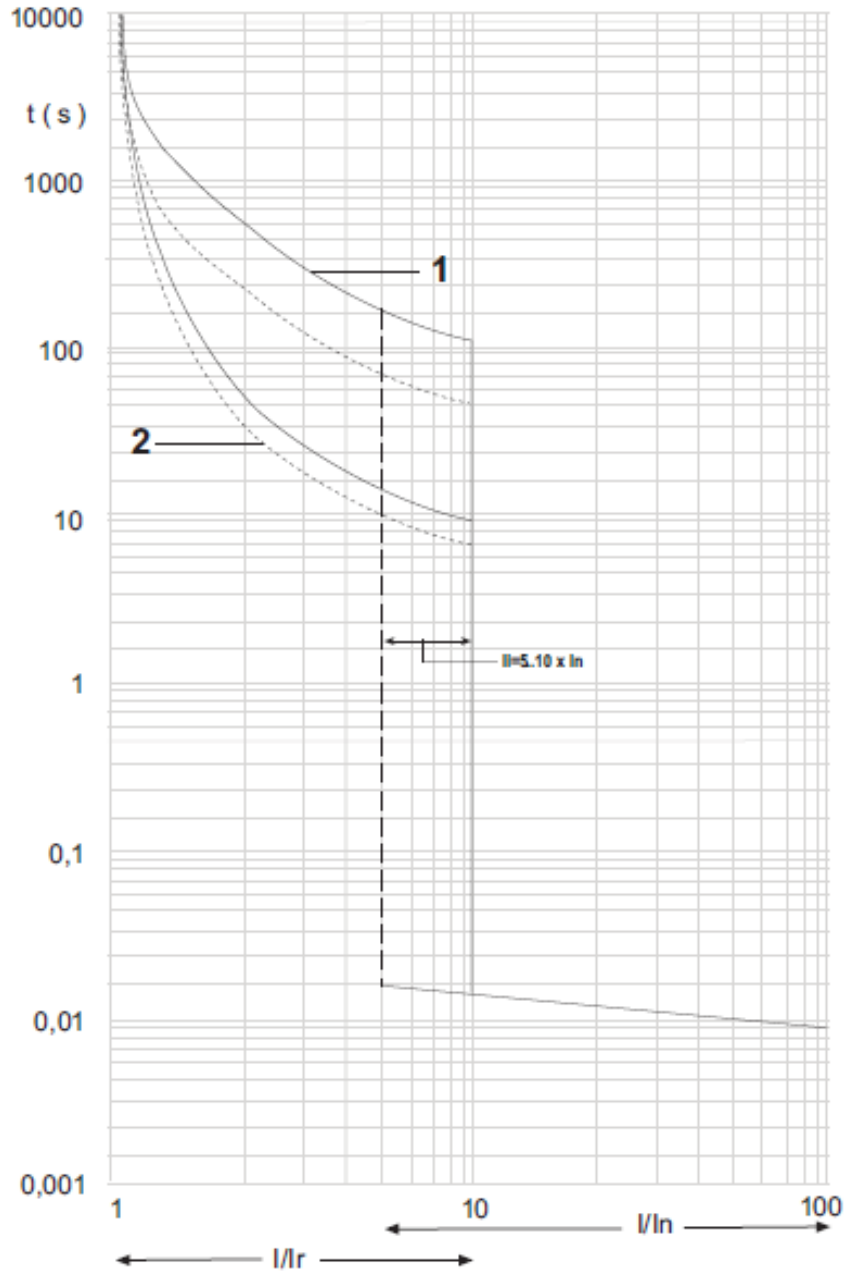
Value	Description
t	time
I	current
$I_r$	setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

(\*) please, for magnetic current value  $I_i$  consider a normative tolerance of  $\pm 20\%$

**DPX<sup>3</sup> 1600**  
**Thermal magnetic and trip-free switches**  
**DPX<sup>3</sup>-I 1600**

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

**8.2 TRIPPING CURVE (up to 1250A)**



$I_{cu} = 36-50-70-100 \text{ kA}$   $I_{max} = 1250A$  3-4 P  $U_e = 415Vac$

Value	Description
t	time
I	current
$I_r$	setting current
curve 1	characteristic with cold start
curve 2	characteristic with hot start

(\*) please, for magnetic current value  $I_i$  consider a normative tolerance of  $\pm 20\%$

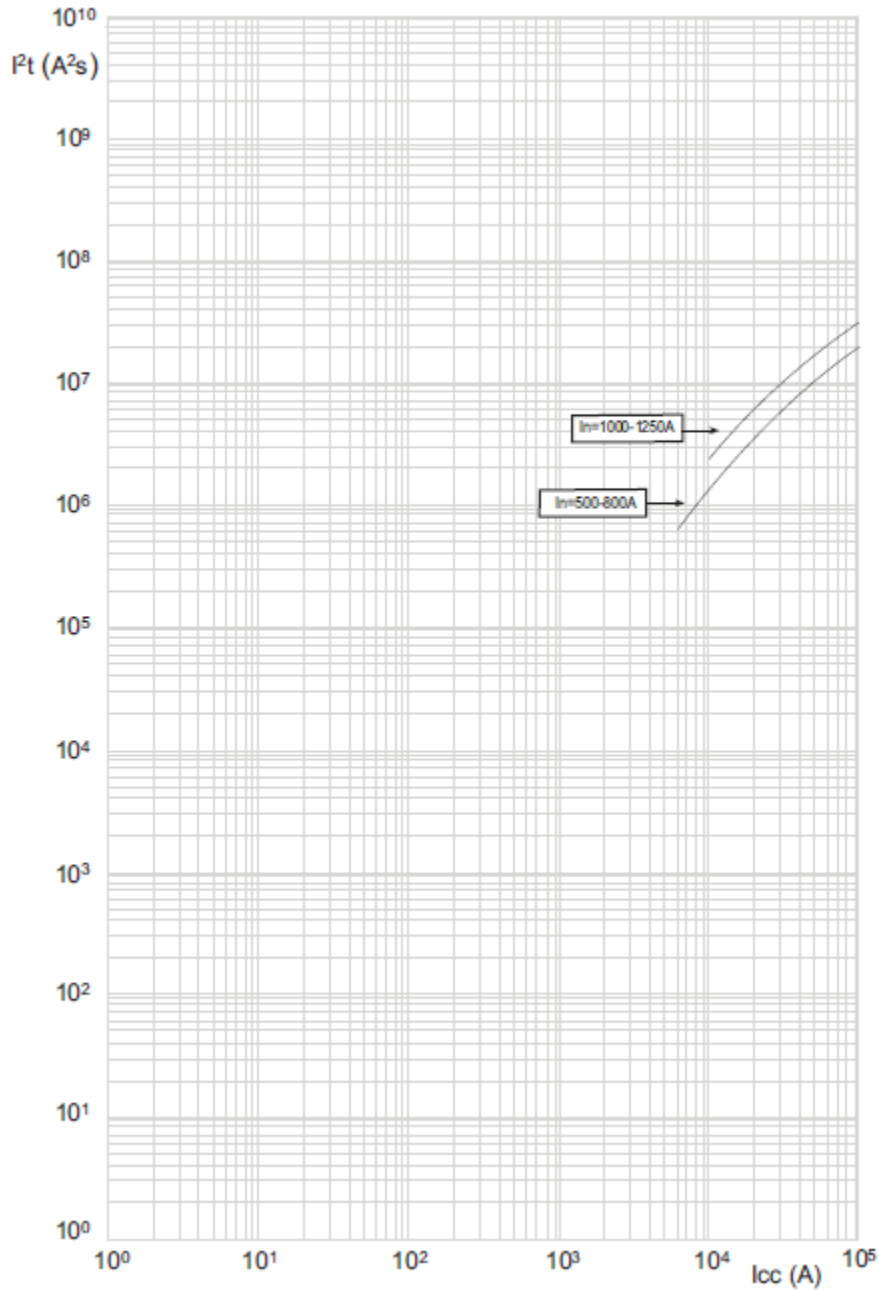
# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

#### 8.3 RESTRICTED CURVE IN THERMAL CONSTRAINT



$I_{cu} = 36-50-70-100 \text{ kA}$   $I_{max} = 1250\text{A}$  3-4 P  $U_o = 415\text{Vac}$

Value	Description
$I_{cc}$	short circuit current
$I^2t$	pass-through specific energy



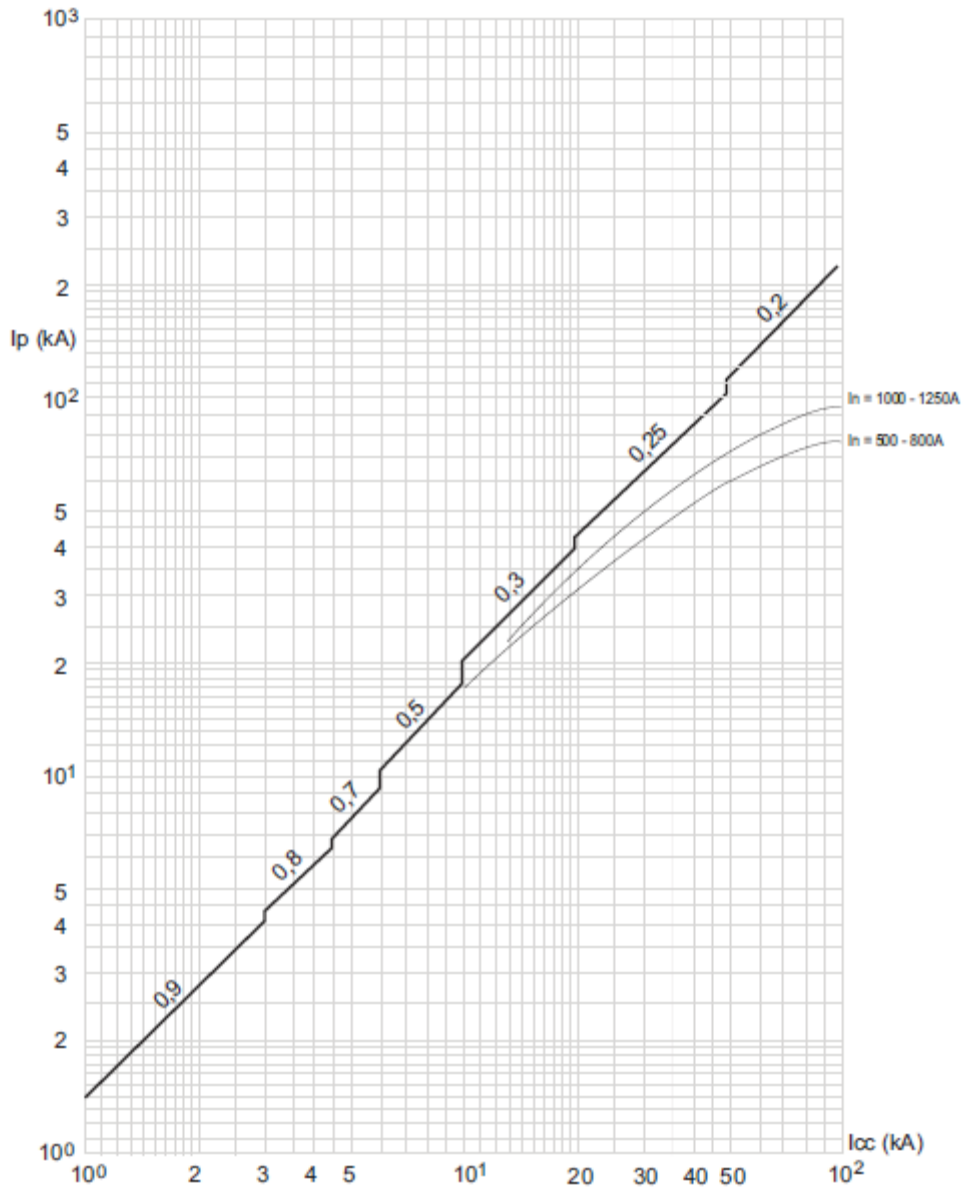
# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

#### 8.4 RESTRICTED CURRENT CURVE



$I_{cu} = 36-50-70-100 \text{ kA}$   $I_{max} = 1250\text{A}$  3-4 P  $U_o = 415\text{Vac}$

Value	Description
$I_{cc}$	estimated short circuit symmetrical current (RMS value)
$I_p$	maximum short circuit peak current
	maximum prospective short circuit peak current corresponding at the power factor
	maximum real peak short circuit current

# DPX<sup>3</sup> 1600

## Thermal magnetic and trip-free switches

### DPX<sup>3</sup>-I 1600

Reference(s) : 422 250 /251/ 252/ 253/ 254/ 255 /256/ 257/ 258/ 259/ 260/ 261/ 262/263/ 264/ 265/ 266/ 267/268/ 269/ 270/ 271/ 272/ 273/274/ 275/ 276/ 277/ 278/279/ 280/ 281/ 282/ 283/ 284/ 285/286/ 287/ 288/ 289/ 290/ 291/ 292/ 293/ 294/ 295/ 296/ 297 & 422 490/ 491/ 492/ 493/ 494/ 495/ 496/ 497

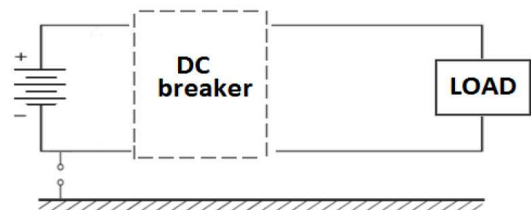
#### A) Derating Temperature and configurations

		Ambient temperature											
		30 °C		40 °C		50 °C		60 °C		65 °C		70 °C	
		$I_{max}$ (A)	$I_r / I_n$	$I_{max}$ (A)	$I_r / I_n$	$I_{max}$ (A)	$I_r / I_n$	$I_{max}$ (A)	$I_r / I_n$	$I_{max}$ (A)	$I_r / I_n$	$I_{max}$ (A)	$I_r / I_n$
Fixed version - 500A	Cage terminals, flexible cable	500	1	500	1	500	1	500	1	500	1	500	1
	Cage terminals, flexible cable + sealable terminal shields	500	1	500	1	500	1	500	1	500	1	500	1
	Lugs, rigid cable	500	1	500	1	500	1	500	1	500	1	500	1
	Spreaders, flexible cable	500	1	500	1	500	1	500	1	500	1	500	1
	Spreaders, bars 2x50x10 Cu	500	1	500	1	500	1	500	1	500	1	500	1
	Rear flat terminals, bars 2x80x5 Cu, vertical	500	1	500	1	500	1	500	1	500	1	500	1
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	500	1	500	1	500	1	500	1	500	1	500	1
Fixed version - 800A	Cage terminals, flexible cable	800	1	800	1	800	1	800	1	800	1	800	1
	Cage terminals, flexible cable + sealable terminal shields	800	1	800	1	800	1	800	1	800	1	800	1
	Lugs, rigid cable	800	1	800	1	800	1	800	1	800	1	800	1
	Spreaders, flexible cable	800	1	800	1	800	1	800	1	800	1	800	1
	Spreaders, bars 2x50x10 Cu	800	1	800	1	800	1	800	1	800	1	800	1
	Rear flat terminals, bars 2x80x5 Cu, vertical	800	1	800	1	800	1	800	1	800	1	800	1
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	800	1	800	1	800	1	800	1	800	1	800	1
Fixed version - 1000A	Cage terminals, flexible cable	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Cage terminals, flexible cable + sealable terminal shields	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Lugs, rigid cable	1000	1	1000	1	1000	1	1000	1	950	0.95	900	0.9
	Spreaders, flexible cable	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Spreaders, bars 2x50x10 Cu	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Rear flat terminals, bars 2x80x5 Cu, vertical	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	1000	1	1000	1	1000	1	1000	1	1000	1	900	0.9
Fixed version - 1250A	Cage terminals, flexible cable	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Cage terminals, flexible cable + sealable terminal shields	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Lugs, rigid cable	1250	1	1250	1	1250	1	1087.5	0.87	975	0.78	937.5	0.75
	Spreaders, flexible cable	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Spreaders, bars 2x50x10 Cu	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Rear flat terminals, bars 2x80x5 Cu, vertical	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75
	Rear flat staggered terminals, bars 2x80x5 Cu, vertical	1250	1	1250	1	1250	1	1125	0.9	1000	0.8	937.5	0.75

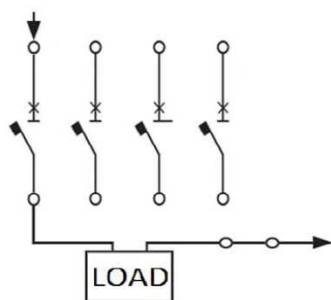
#### D) Breaking capacity in DC (kA)

$I_{cu}$ (kA)	$I_n$ (A)	1 pole *				2 poles in series *			
		60 V	60 V	110 V	250 V	110 V	250 V	500 V	
36	500 ÷ 1250	35	35	35	35	35	35	35	
50	500 ÷ 1250	35	50	35	35	50	35	35	
70	500 ÷ 1250	35	50	35	35	50	35	35	
100	500 ÷ 1250	35	50	35	35	50	35	35	

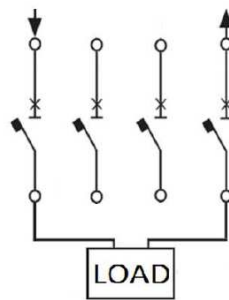
These values are applied to DC networks insulated from the ground (*this diagram applies to both 3P and 4P circuit breakers*):



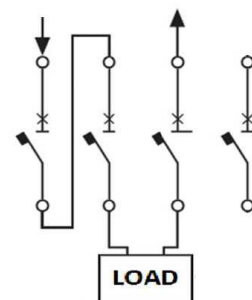
\* Connection modality of the DC breaker:



1 pole



2 poles in series



3 poles in series