

Products and systems

Main isolating switches, isolating switches for rows, circuits or groups of circuits

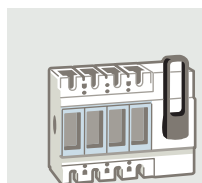
Used for electrical separation of all or part of an installation and to ensure the safety of people working on it by isolation

The range

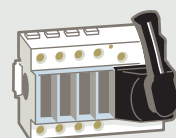
VISIBLE CONTACT INDICATION

Visible indication of the position of the contacts (required for subscriber stations $\leq 1\,200$ kVA)

- DPX-IS
- 63 to 1 600 A
- Trip-free version
- Front, left or right side-mounted handle
- Padlocking function integrated in the handle



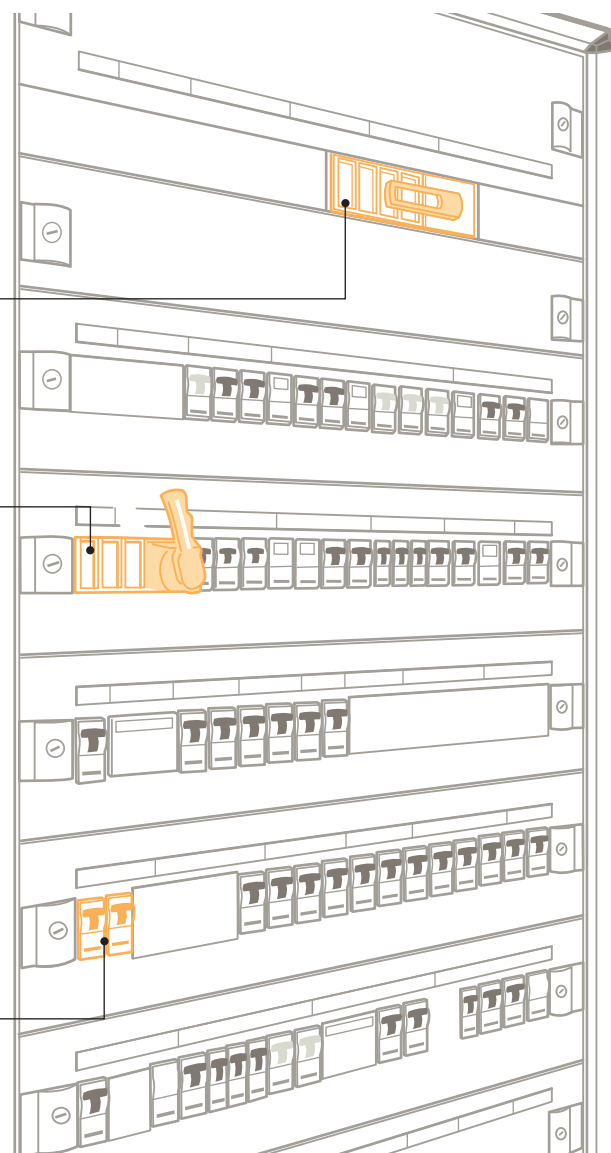
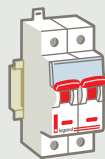
- VISTOP
- 32 to 160 A
- 2 versions for mounting on faceplate:
 - . with left or right external side-mounted handle
 - . with front handle
- Padlocking function integrated in the handle



POSITIVE CONTACT INDICATION

The position of the handle guarantees the position of the contacts

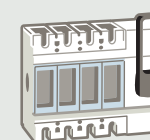
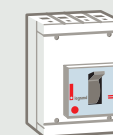
- DX-IS
- 16 to 125 A
- Trip-free version
- Visible indication of the fault contact



TRIP-FREE

Remote opening of circuits (by the use of auxiliaries)

- DMX-I
- 1 250 to 4 000 A
- Fixed or draw-out
- DPX-I
- 125 to 1 600 A
- Can be used with the earth leakage modules or residual current relays of the corresponding DPX
- DPX-IS, DX-IS
- Front, left or right side-mounted handle
- Can be used with a trip



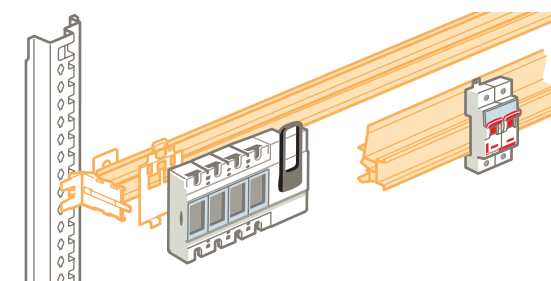
EQUIPMENT

- DPX-I and DPX-IS
- Auxiliaries common to all DPX
- DX-IS
- Auxiliaries common to all DX

Installation principle

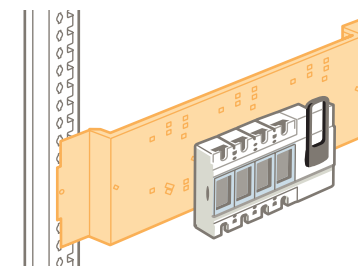
On rail

- DPX-IS 250
- Vistop 32 to 160 A
- DX-IS
- DPX-I 125, 160 and 250 ER



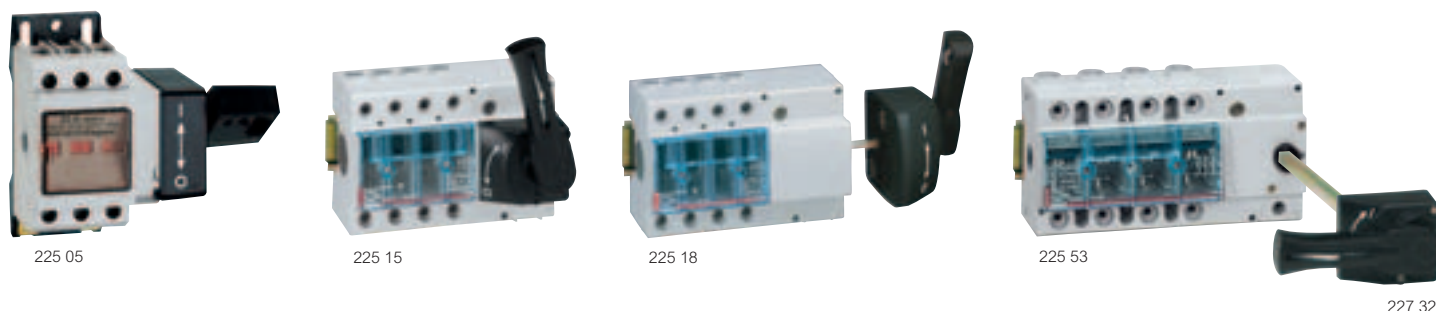
On plate and special faceplate

- DPX-IS 250 and 630
- DPX-I 250, 630 and 1600



- See the Distribution and Power guide
- Come and be trained at Innoval see p. 409
- See the on-line catalogue: instructions, technical data sheets, etc.

Vistop™ isolating switches



Safety switches for on-load circuit breaking by visible isolation of the contacts
Double break type load switching with self cleaning contacts by rapid make and break movements
Fixing on rail  EN 60715 or screw fixing (only on rail for Vistop 63 A)
Padlockable handle in open position: 1 to 3 padlocks Cat.No 227 97 (p. 125)

Pack		Cat.Nos		32 A		Pack		Cat.Nos		Accessories	
				2 versions for mounting on faceplate • right side handle, supplied with seal to maintain the IP protection for the enclosures (up to IP 55), screws, self adhesive drilling template, extension rod (30 to 170 mm) for creating an external angle • direct front handle						Front external handle Comprising: connection rod, bracket, self-adhesive drilling template, fixing accessories (including a seal to maintain the IP protection of enclosure up to IP 55) and locking mechanism to prevent opening of the door when the circuit is closed For Vistop 63 to 160 A fixing on rail  or with screws Door distance 35 to 470 mm	
		Front handle	Side handle		Connection	No of 17.5 mm modules Side handle removed					
1		224 98	225 03	2P		4	3.5				
1		225 00	225 05	3P	16 mm ²	4	3.5				
1		225 02	225 07	4P	cage terminals	5	4.5				
								1	227 07	Auxiliary contact for "on-off" signalling NO + NC additional contact Connection with lug 2.58	

		63 to 160 A		Label holders for identification of the circuits 2 versions for mounting on faceplate • left or right side handle supplied with seal to maintain the IP protection for the enclosures (up to IP 55), screws, self adhesive drilling template, extensive rod (30 to 170 mm) • direct front handle or external with Cat.No 227 32 (to be ordered separately) Possibility to add auxiliary contact Cat.No 227 07	
		63 A			
		Front handle	Side handle	Connection	No of 17.5 mm modules
1	225 12	225 16	3P	cage	7
1	225 15	225 18	4P	terminals	7
		100 A			
1	225 20	225 25	3P	key	7.5
1	225 22	225 27	4P	6 sides	9
		125 A			
1	225 34	225 44	3P	key	7.5
1	225 39	225 46	4P	6 sides	9
		160 A			
1	225 51	225 54	3P	key	7.5
1	225 53	225 56	4P	6 sides	9

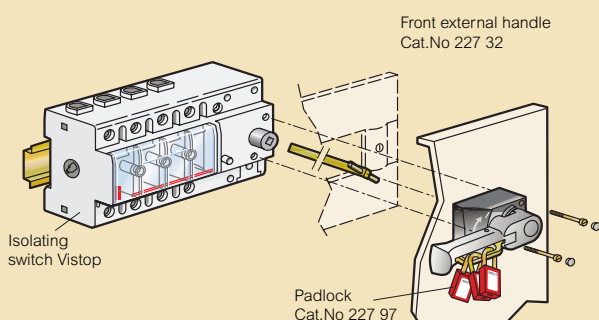
Vistop™ isolating switches

Conform to standards EN / IEC 60947-3, BS EN 60947-3, VDE 0660, NBN EN 60947-3, CNOMO E03 - 15-611 R, Veritas approved
Glass fibre reinforced insulating casing, self-extinguishing at 960 °C (IEC EN 60695-2-1)
Handle can be padlocked in open position using 1 to 3 padlocks Ø6 mm

■ Electrical characteristics

Thermal rating (I _{th})	32 A	63 A	100 A	125 A	160 A	
Terminals	cage	cage	cage	cage	cage	
Conne- tion	Cu (flexible)	4 to 35 ²	4 to 50 mm ²			
	Cu (rigid)	4 to 50 ²	4 to 70 mm ²			
Insulating voltage (U _i)	690 V~	690 V~	800 V~	800 V~	800 V~	
Impulse resistant voltage (U _{imp})	8 kV	8 kV	8 kV	8 kV	8 kV	
AC 22 A ⁽¹⁾ AC 23 A ⁽¹⁾	400 V	32 A (17 kW)	63 A (35 kW)	100 A (55 kW)	125 A (70 kW)	160 A (88 kW)
	500 V	32 A (20 kW) ⁽²⁾ 20 A (14 kW)	63 A (44 kW)	100 A (69 kW)	125 A (87 kW)	160 A (110 kW)
	690 V	-	40 A (38 kW)	100 A (96 kW)	125 A (120 kW)	125 A (120 kW)
DC 22 A/250 V ^{(1) (3)}	-	*	100	125	125	
DC 23 A/250 V ^{(1) (3)}	-	*	100	125	125	
Breaking capacity (I _{cu}) (kA peak)	5	15	15	15	15	
1 s resistant current (kA rms) (I _{cw})	0.5	2.5	3.5	3.5	3.5	
I _{cc} with fuses (kA rating)	100	100	100	100	80	
Fuse rupture capacity	32 A (gG) 20 A (aM)	63 A	100 A (gG) 63 A (aM) ⁽⁴⁾	125 A (gG) 125 A (aM) ⁽⁴⁾	160 A (gG) 125 A (aM)	
Short circuit capacity (kA prospective peak) (I _{cm})	0.75	7	12	12	12	
Mechanical endurance (No of operations)	> 10 000	> 30 000	> 30 000	> 30 000	> 30 000	
Index of protection	IP 2X (16 mm ² IP 3X under front plat)	IP 2X B (IP 3X C under front plates) from 6 mm ²	IP 2X B (IP 3X C under front plate) from 10 mm ²			

■ Example of mounting with Vistop 100 to 160 A

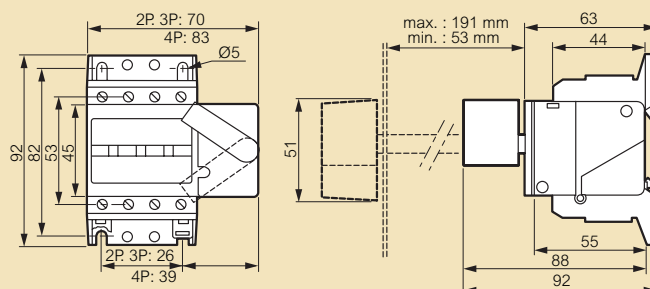


- (1) Test according to IEC 60947-3
AC 22 A / DC 22 A: resistive motor breaking
AC 23 A / DC 23 A: inductive motor breaking
- (2) 32 A (20 kW) for AC 22 A
20 A (14 kW) for AC 23 A
- (3) No of breaking contacts: 2
- (4) 100 A (aM) with blade type cartridge fuses

■ Dimensions

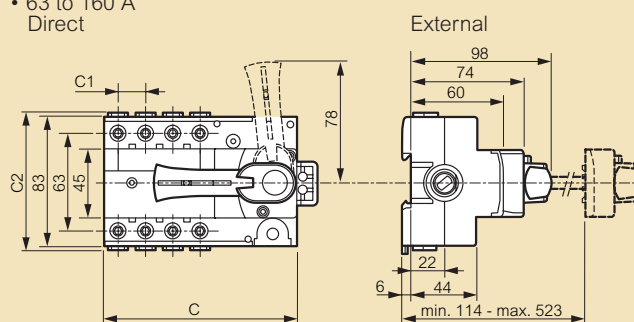
Front handle

- 32 A Cat.Nos 224 98 - 225 00/02



	2P	3P	4P
Weight (kg)	0.220	0.240	0.290

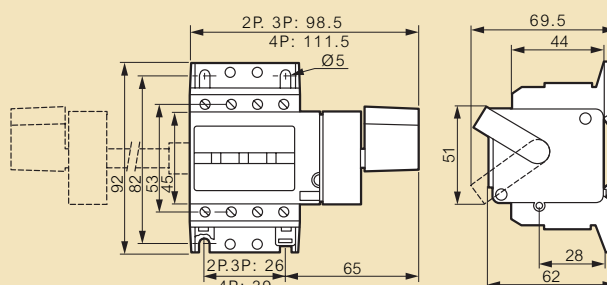
- 63 to 160 A
Direct



	Front handle		
	63 A	100 A, 125 A, 160 A	
	3P and 4P	3P	4P
C	125	133	160
C ₁	17.7	26.7	
C ₂	90	91	

Side handle

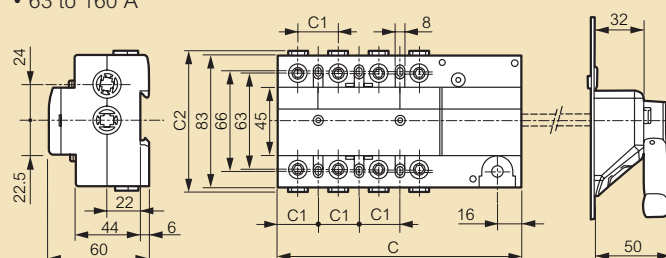
- 32 A Cat.Nos 225 03/05/07



	2P	3P	4P
Weight (kg)	0.300	0.320	0.370

Mounting on rail or with 4 x M5 screws

- 63 to 160 Å



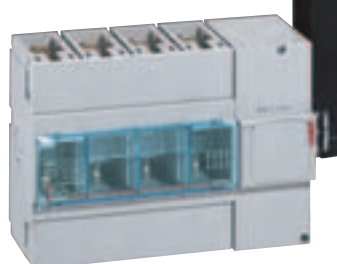
	External side handle		
	63 A	100 A, 125 A, 160 A	
	3P and 4P	3P	4P
C	125	133	160
C ₁	17.7	26.7	
C ₂	90	91	

DPX™-IS 250 isolating switches

63 to 250 A



266 37



266 47



262 39

Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
 Padlock integrated in the handle
 Connection with cage terminals
 Supplied with terminal shields
 Conform to IEC 60947-3
 Category of use AC 23 A
 Accept the same electrical auxiliaries as the DPX (p. 76)
 Can be mounted on rail  or on plate in XL³ enclosures

Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coils (p. 77), supplied without shunt trip
1	266 30	266 34	Front handle
1	266 31	266 35	63 A
1	266 32	266 36	100 A
1	266 33	266 37	160 A
			250 A
			Right-hand side handle
1	266 40	266 44	63 A
1	266 41	266 45	100 A
1	266 42	266 46	160 A
1	266 43	266 47	250 A
			Left-hand side handle
1	266 50	266 54	63 A
1	266 51	266 55	100 A
1	266 52	266 56	160 A
1	266 53	266 57	250 A

Pack	3P	4P	DPX-IS without release
1	266 02	266 06	Front handle
1	266 03	266 07	160 A
			250 A
			Right-hand side handle
1	266 12	266 16	160 A
1	266 13	266 17	250 A
			Left-hand side handle
1	266 22	266 26	160 A
1	266 23	266 27	250 A

Pack	Cat.Nos	Mounting on rail 
1	262 39	Rail  fixing plate For mounting DPX-IS 250
1	262 99	Spacer Fits on a rail  ; used to mount on the same row DX and DPX/DPX-IS mounted on plate

Pack	Cat.Nos	Mounting on XL ³ plate
1	202 05	For one device
1	206 05	For one or two devices

Pack	Cat.Nos	Rotary handles
		Direct for emergency use For mounting instead of standard handle
1	266 89	Front and right-hand side handle
1	266 90	Left-hand side handle
		Vari-depth handle IP 55 Comprising: connecting rod, bracket, self-adhesive drilling template, fixing accessories (seal to maintain the IP protection up to IP 55, door lock mechanism)
1	266 86	For front and side handle device
1	266 87 ⁽¹⁾	For front and side handle device for emergency use

Pack	Cat.Nos	Accessories
1	262 88	Cage terminals Set of 4 terminals for cable 185 mm ² (rigid) or 150 mm ² (flexible)
1	273 22	Spreaders Set of upstream and downstream spreaders
		Rear terminals Set of upstream and downstream terminals
1	265 10	3P
1	265 11	4P
1	262 87	Terminal shields Set of 2
		Padlock⁽²⁾ For locking mechanism in open position
1	266 92	Ronis
1	266 94	Interlock⁽²⁾ Provides closing of 2 devices at the same time

(1) To be ordered with Cat.Nos 266 89 or 266 90
 (2) Factory assembled

DPX™-IS 250 isolating switches

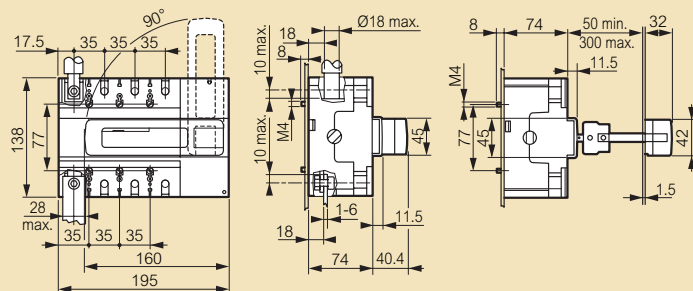
63 to 250 A

Electrical characteristics

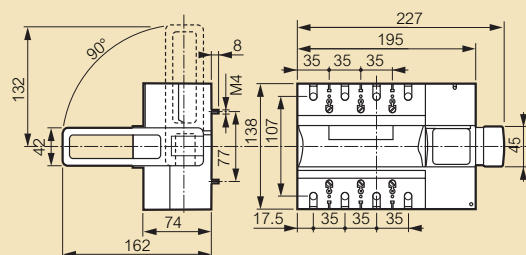
Rating		63 A	100 A	160 A	250 A
Connection	Cu flexible	150 mm ²			
	Cu rigid / Alu	185 mm ²			
Copper bar		Width max. 28 mm			
Nominal rating (Ue)		690 V~ - 250 V=			
Rated insulation voltage (Ui)		800 V~			
Rated impulse withstand voltage (Uimp)		8 kV~			
AC 23 A	400 V~	63 A	100 A	160 A	250 A
	690 V~	63 A	100 A	160 A	160 A
AC 22 A	690 V~	63 A	100 A	160 A	250 A
Short-circuit making capacity (kA efficient) (Icm)		40 kA			
I admissible Is (Icw)		12 kA efficient			
I admissible with fuse (Icc)		100 kA efficient			
Max. rating of fuse	gG	63 A	100 A	160 A	250 A
	aM	63 A	100 A	160 A	160 A
Rated closing capacity on short circuit (kA peak) (Icm)		40 kA			
Endurance	mechanical	25 000 operations			
	electrical (AC 23 - 400 V~)	2 500 operations			
Index of protection		IP 20 front panel			

Dimensions

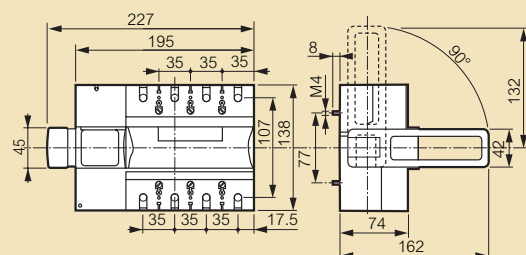
Front handle



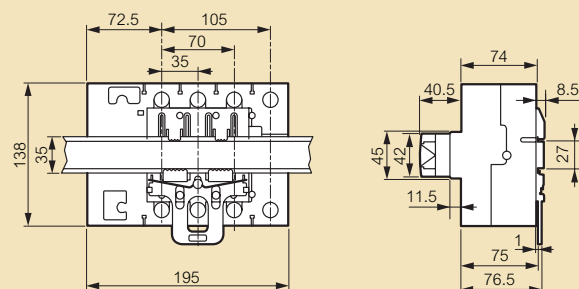
Right lateral handle



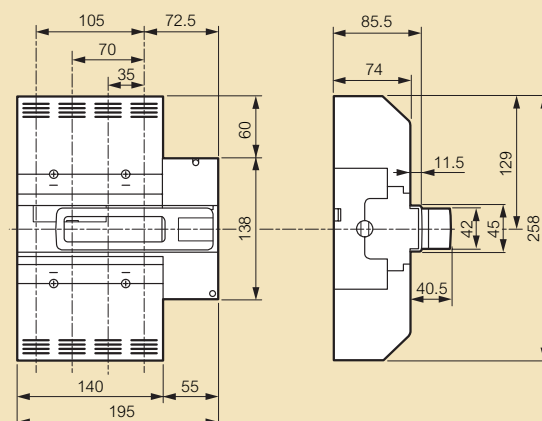
Left lateral handle



Mounted on rail

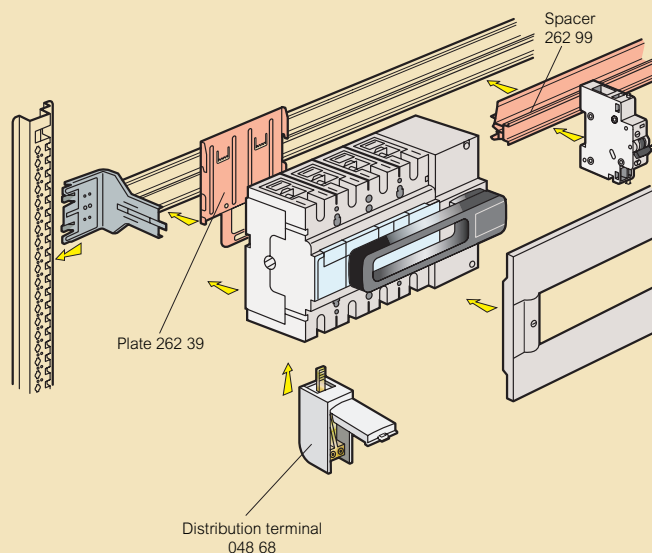


With terminal shields



Mounting

Mounted on rail with plate (XL³ 400, XL³ 800 and XL³ 4000)



DPX™-IS 630 isolating switches

400 to 630 A



266 62



266 70



262 50



262 51

Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
 Padlock integrated in the handle
 Supplied with terminal shields, and cage terminals
 Conform to IEC 60947-3
 Category of use AC 23 A
 Accept the same electrical auxiliaries as the DPX (p. 76)
 Can be mounted on plate in XL³ enclosures

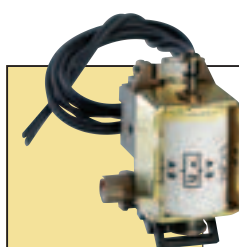
Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coil (p. 77), supplied without shunt trip
1	266 72	266 74	Front handle
1	266 73	266 75	400 A
			630 A
1	266 76	266 78	Right-hand side handle
1	266 77	266 79	400 A
			630 A
1	266 80	266 82	Left-hand side handle
1	266 81	266 83	400 A
			630 A

Pack	Cat.Nos		DPX-IS without release
	3P	4P	Front handle
1	266 60	266 62	400 A
1	266 61	266 63	630 A
			Right-hand side handle
1	266 64	266 66	400 A
1	266 65	266 67	630 A
			Left-hand side handle
1	266 68	266 70	400 A
1	266 69	266 71	630 A

Pack	Cat.Nos	Mounting on XL ³ plate
1	202 07	For one device
1	206 07	For one or two devices

Pack	Cat.Nos	Rotary handles
		Direct for emergency use
		For mounting instead of standard handle
1	266 89	Front and right-hand side handle
1	266 90	Left-hand side handle
		Vari-depth handle IP 55
		Comprising: connecting rod, bracket, self-adhesive drilling template, fixing accessories (seal to maintain the IP protection up to IP 55, door lock mechanism)
1	266 86	For front and side handle device
1	266 87 ⁽¹⁾	For front and side handle device for emergency use

Pack	Cat.Nos		Accessories
			Cage terminals
			Set of 4
1	262 50		For cables 300 mm ² (rigid) or 240 mm ² (flexible)
1	262 51		For cables 2 x 240 mm ² (rigid) or 2 x 185 mm ² (flexible)
	3P	4P	Spreaders
1	262 48	262 49	Set of upstream and downstream spreaders
			Rear terminals
1	263 50	263 51	Set of upstream and downstream swivel rear terminals
1	263 52	263 53	Set of upstream and downstream flat rear terminals
			Terminal shields
1	262 45		Set of 2
			Padlock
1	266 97		For locking mechanism in open position
			Ronis



Common auxiliaries to DPX

see p. 76

(1) To be ordered with Cat.Nos 266 89 or 266 90

DPX™-IS 630 isolating switches

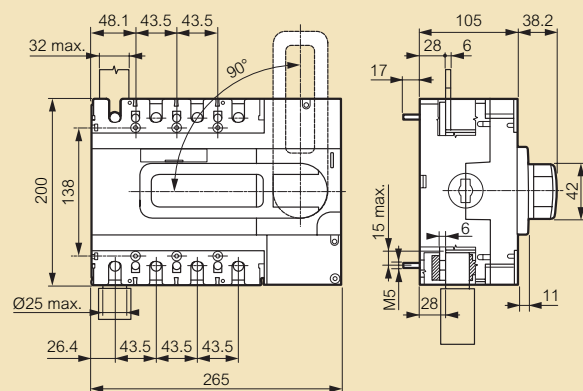
400 to 630 A

Electrical characteristics

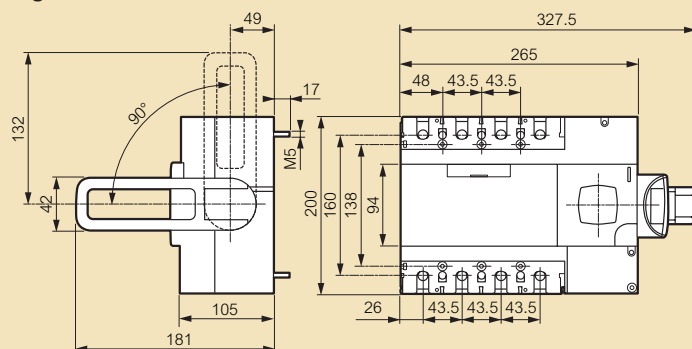
Rating		400 A	630 A
Connection	Cu flexible	1 x 240 or 2 x 185 mm ²	
	Cu rigid/Alu	1 x 300 or 2 x 240 mm ²	
Copper bar		width max. 32 mm	
Nominal rating (Ue)		690 V	
Rated insulation voltage (Ui)		800 V	
Rated impulse withstand voltage (Uimp)		8 kV	
AC 23 A	400 V	400 A	630 A
	500 V	400 A	630 A
	690 V	400 A	630 A
AC 22 A	690 V	400 A	630 A
DC 23 A	250 V V_{DC}	400 A	630 A
Rated closing capacity on short circuit (kA peak) (I _{cs})		40 kA	
I admissible Is (I _{cw})		20 kA efficient	
I admissible with fuse (kA efficient) (I _{cc})		100 kA	
Max. rating of fuse	gG	400 A	630 A
	aM	400 A	630 A
Endurance	mechanical	15 000 operations	
	electrical (AC 23 - 400 V $\sim$)	1 500 operations	
Index of protection		IP 20 front panel	

Dimensions

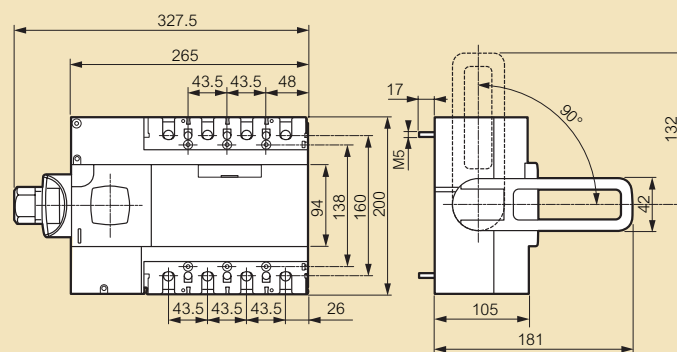
Front handle



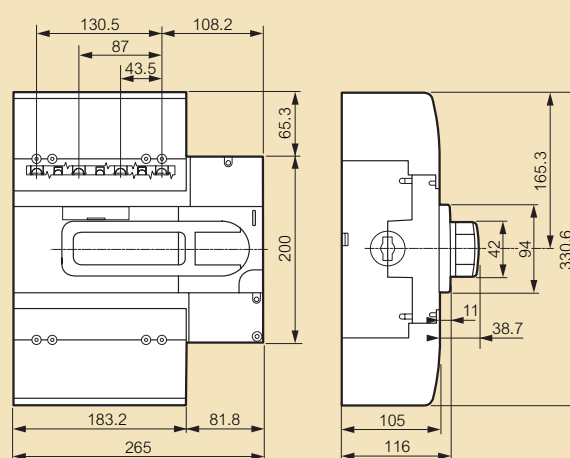
Right lateral handle



Left lateral handle



Front handle with terminal shields



DPX™-IS 1 600 isolating switches

800 to 1 600 A



265 98



262 65

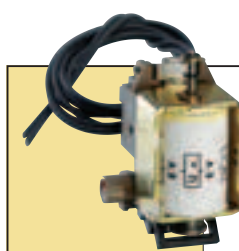
Isolating switches for on-load circuit breaking by visible isolation and positive action of the contacts
 Connection with cage terminals
 Padlock integrated in the handle
 Supplied with terminal shields
 Conform to IEC 60947-3
 Category of use AC 23 A
 Accept the same electrical auxiliaries as the DPX (p. 76)
 Can be mounted on plate in XL³ enclosures

Pack	Cat.Nos		DPX-IS with release
	3P	4P	Can be associated with a residual current relay with separate coil (p. 77), supplied without shunt release
1	265 91	265 95	Front handle
1	265 92	265 96	800 A
1	265 93	265 97	1 000 A
1	265 94	265 98	1 250 A
			1 600 A

Pack	Cat.Nos		Van-depth handle
1	265 89		Standard
1	265 90		For emergency use
1	262 92		Locking accessories
1	262 93		Eurolocks for vari-depth handle
1	262 94		Profalux for vari-depth handle
1	262 94		Ronis for vari-depth handle

Pack	Cat.Nos		Mounting on plate for XL ³
1	206 30		For one device

Pack	Cat.Nos		Accessories
1	262 69		Cage terminals
			Set of 1 terminal for cables without lug
			2 x 240 mm ² max. (rigid)
			or 2 x 185 mm ² max. (flexible)
1	262 70		Set of terminal for cables without lug
			4 x 240 mm ² max. (rigid)
			or 4 x 185 mm ² max. (flexible)
1	3P 262 73	4P 262 74	Spreaders
			Set of upstream and downstream spreaders
			Rear terminals
			Used to convert a DPX with front terminals into DPX with rear terminals
			Set of upstream and downstream rear terminals
1	263 80	263 82	Short terminals
1	263 81	263 83	Long terminals
1	262 67		Extended front terminals
			Short terminals
1	262 68		Long terminals
1	3P 262 64	4P 262 65	Sealable terminal shields
			Set of 2
			Insulation shields
			Used to isolate the connections between each pole
1	262 66		Set of 3



Common auxiliaries to DPX

see p. 76

DPX™-IS 1 600 isolating switches

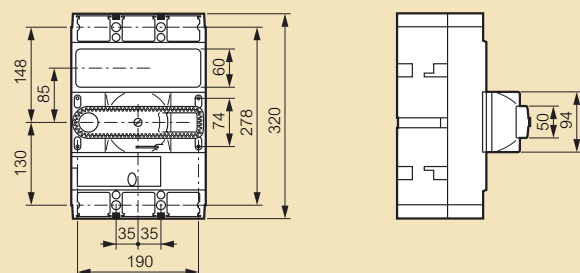
800 to 1600 A

Electrical characteristics

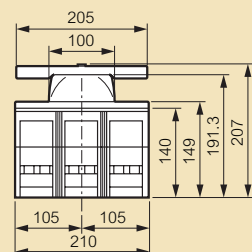
Rating		800 A	1000 A	1250 A	1600 A
Connexion	Cu flexible	2 x 185 mm ² ou 4 x 185 mm ²			
	Cu rigide/Alu	2 x 240 mm ² ou 4 x 240 mm ²			
Copper bar/lugs		50 mm ou 80 mm			
Nominal rating (Ue)		690 V			
Rated insulation voltage (Ui)		690 V			
Rated impulse withstand voltage (Uimp)		8 kV			
AC 23 A	400 V	800 A	1000 A	1250 A	1600 A
	500 V	800 A	1000 A	1250 A	1600 A
	690 V	800 A	1000 A	1250 A	1600 A
DC 23 A	250 V	800 A	1000 A	1250 A	1600 A
		800 A	1000 A	1250 A	1600 A
I admissible Is (Icw)		20 kA efficient			
I admissible with fuse (Icc)		100 kA efficient			
Max. rating of fuse	gG	800 A	1000 A	1250 A	1600 A
	aM	800 A	1000 A	1250 A	1600 A
Short-circuit making capacity (kA peak) (Icm)		40 kA			
Endurance	mechanical	10 000			
	electrical (AC 23 400 V) (Icm)	3 000	3 000	2 000	2 000
Index of protection		IP 20 front panel			

Dimensions

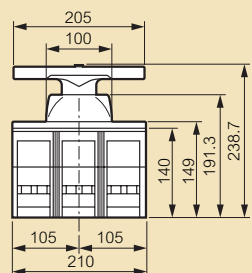
3P



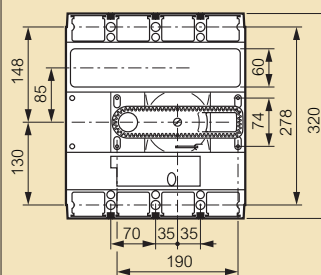
Without handle extension



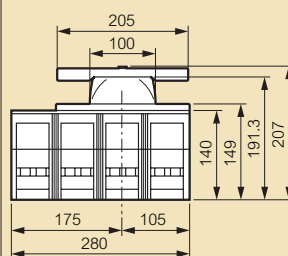
With handle extension



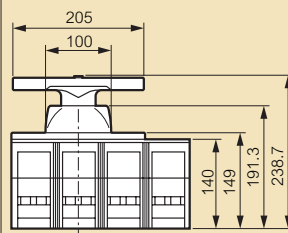
4P



Without handle extension

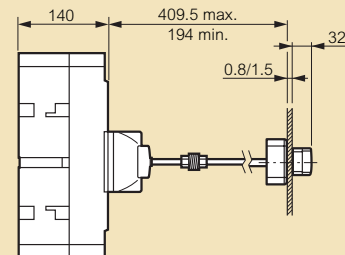
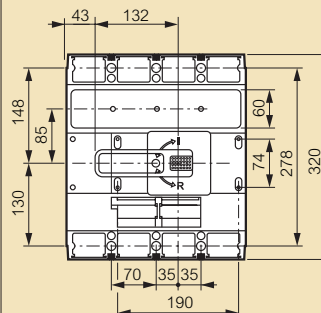


With handle extension

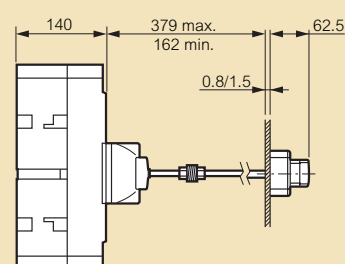
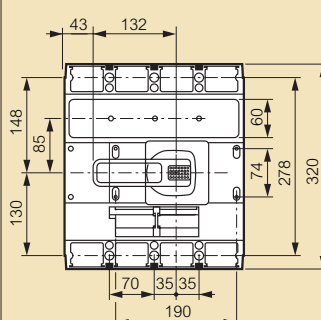


Vari-depth handle

IP 40



IP 55



DPX-I™ trip-free switches
125 to 1 600 A



 Dimensions (p. 78 to 83)

Trip-free switches for on-load circuit breaking and isolation of low voltage electrical circuits
Can be associated to earth leakage modules or to corresponding DPX residual current relays (p. 77)
Mount on rail  up to DPX 250 ER with plate Cat.No 262 08 (DPX-I 125) and Cat.No 262 09 (DPX-I 160 and DPX-I 250 ER)
Conform to IEC 60947-3
Category of use AC 23 A
Connection identical to corresponding DPX

Pack	Cat.Nos		DPX-I 125
1	3P	4P	In
	250 98	250 99	125 A

1	3P	4P	In
	251 98	251 99	160 A

1	3P	4P	In
	252 98	252 99	250 A

1	3P	4P	In
	253 98	253 99	250 A

1	3P	4P	In
	255 86	255 87	400 A
1	255 88	255 89	630 A

1	3P	4P	In
	257 94	257 95	800 A
1	257 96	257 97	1 250 A
1	257 98	257 99	1 600 A

Common auxiliaries to DPX (p. 76)

DPX-I™ trip-free switches
125 to 1 600 A

Electrical characteristics

		DPX-I 125	DPX-I 160	DPX-I 250 ER	DPX-I 250	DPX-I 630	DPX-I 1 600
Rated operating voltage U _e (V)	50/60 Hz	500	500	500	690	690	690
	direct	250	250	250	250	250	250
Rated insulation voltage U _i (V _~)		500	500	500	690	690	690
Rated impulse withstand voltage U _{imp} (kV)		6	6	6	8	8	8
Rated closing capacity on short-circuit I _{cm} (kA)	400 V	3	3.6	4.3	4.3	13	40
Short-time resistive current t = 1 s I _{cs} (kA)		1.7	2.1	3	3	7.6	20
Endurance (o.c cycle)							
	mechanical	8 500	7 000	7 000	7 000	4 000	2 500
	electrical	1 500	1 000	1 000	1 000	1 000	500
Conventional thermal current (A)		125	160	250	250	630	1 600
Nominal current of use (A)		125	160	250	250	630	1 600
AC 23 A (690 V _~)		(500 V)	(500 V)	(500 V)			
DC 23 A (250 V _~)		125	160	250	250	630	-

Dimensions

Dimensions of DPX-I identical to corresponding DPX

DPX-I	Dimensions
DPX-I 125	DPX 125 (see p. 78)
DPX-I 160	DPX 160 (see p. 79)
DPX-I 250 ER	DPX 250 ER (see p. 80)
DPX-I 250	DPX 250 (see p. 81)
DPX-I 630	DPX 630 (see p. 82)
DPX-I 1 600	DPX 1 600 (see p. 83)

Choice of faceplates and distribution equipment

Equipment of DPX-I identical to corresponding DPX:

Devices	XL ³ 400	XL ³ 800	XL ³ 4 000
DPX/DPX-I 125	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 160	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 250 ER	(p. 176-177)	(p. 188-189)	(p. 204-205)
DPX/DPX-I 250	(p. 176-177)	(p. 188-189)	(p. 206-207)
DPX/DPX-I 630	(p. 176-177)	(p. 188-189)	(p. 206-207)
DPX/DPX-I 1 600	(p. 176-177)	(p. 188-189)	(p. 206-207)