Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/22 to B3/23
Schemes: p. B3/23

Switch-disconnectors for standard applications

- 3-pole rotary switch-disconnectors, 12 to 20 A
- Marking on operator O I.
- Padlockable operating handle (padlocks not supplied).
- Degree of protection IP 65.

PB121292.eps



VCDN20

PB121293.eps



VCCDN20

PB119284.eps



VBDN20

Main and Emergency stop switch-disconnectors for door mounting

Operator			Ith	Reference
Handle	Front plate	Fixing		
	mm	mm	A	
Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	Ø22.5	12	**VCDN12**
			20	**VCDN20**

Main and Emergency stop switch-disconnectors for mounting at back of an enclosure (1)

Operator			Ith	Reference
Handle	Front plate	Fixing		
	mm	mm	A	
Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	Ø22.5	12	**VCCDN12**
			20	**VCCDN20**

Main switch-disconnectors for door mounting

Operator			Ith	Reference
Handle	Front plate	Fixing		
	mm	mm	A	
Black, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 60 x 60	Ø22.5	12	**VBDN12**
			20	**VBDN20**

(1) Switches supplied with a shaft extension **VZN17** *and a door interlock plate* **KZ32** *(see page B3/5).*

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/22 to B3/23
Schemes: p. B3/23

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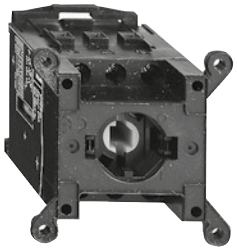

VN20

580586.tif



VZN11

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VZN14

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VZN05

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VZN26

812806.tif



VZN08

Switch-disconnectors for standard applications

Switch bodies

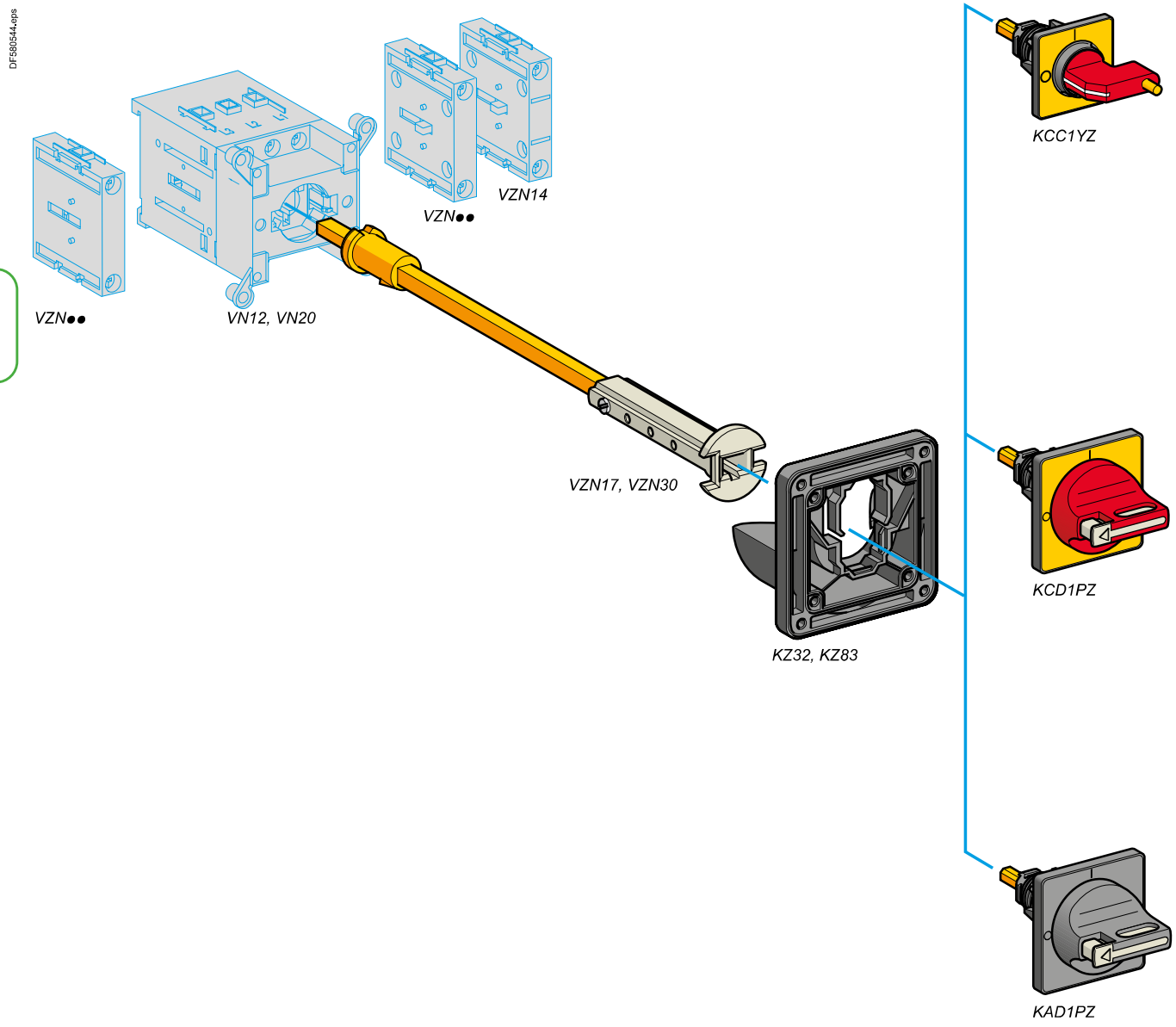
Description	Rating A	Reference
3-pole switch-disconnectors	12	**VN12**
	20	**VN20**

Add-on modules

Description	Rating A	Reference
Main pole modules	12	**VZN12**
	20	**VZN20**
Neutral pole module with early make and late break contacts	12 and 20	**VZN11**
Earthing module	12 and 20	**VZN14**
Auxiliary contact block modules	1 N/O late make contact	**VZN05**
	1 N/C early break contact	**VZN06**
Input terminal protection shrouds	For add-on pole modules or auxiliary contact block modules (single-pole shroud)	**VZN26**
	For switch bodies (3-pole shroud)	**VZN08**

Maximum number of add-on modules that can be fitted on a switch body

VZN12 or VZN20	+	**VN12**	+	VZN12 or VZN20
				or
or		**or**		VZN11 + VZN14
		VN20		or
VZN05 or VZN06				VZN05 or VZN06


DF580544.eps
VZN●●
VN12, VN20
VZN●●
VZN14
VZN17, VZN30
KZ32, KZ83
KCC1YZ
KCD1PZ
KAD1PZ

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/22 to B3/23
Schemes: p. B3/23

Switch-disconnectors for standard applications

- Degree of protection IP 65.
- Marking on operator .
- Padlockable operating handle (padlocks not supplied).
- Operator fixing by 1 Ø22.5 hole; for other operators see pages B3/11 and B3/13.
- For other accessories and empty enclosures, see pages B3/14, B3/15 and chapter A1.

Operators for main and Emergency stop switch-disconnectors

Handle	Front plate mm	Reference
Red, padlockable with 1 padlock (Ø4 to Ø6)	Yellow 45 x 45	**KCC1YZ**
Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	**KCD1PZ**

Operators for main switch-disconnectors

Handle	Front plate mm	Reference
Black, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 60 x 60	**KAD1PZ**

Accessories for door interlocking

For rear fixing switch-disconnectors mounted at the back of an enclosure, in addition to a direct operator

Description	Front plate	Distance enclosure back/door	Sold in lots of	Unit reference
	mm	mm		
Shaft extensions	–	300…330	1	**VZN17**
		400…430	1	**VZN30**
Door interlock plate	45 x 45 or 60 x 60	–	5	**KZ32**
Plate for door mounting	45 x 45 or 60 x 60	–	5	**KZ83**

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/24 to B3/25
Schemes: p. B3/25

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VCF0

PB121295.eps



VCF5

PB121296.eps



VCCF0

Switch-disconnectors for high performance applications

- 3-pole rotary switch-disconnectors, 12 to 175 A
- Marking on operator O I.
- Padlockable operating handle (padlocks not supplied).
- Degree of protection IP 65.

Main and Emergency stop switch-disconnectors for door mounting

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	Ø22.5	12	**VCD02**	0.215
			20	**VCD01**	0.215
			25	**VCD0**	0.215
			32	**VCD1**	0.215
			40	**VCD2**	0.215
		4 screws	12	**VCF02**	0.250
			20	**VCF01**	0.250
			25	**VCF0**	0.250
			32	**VCF1**	0.250
			40	**VCF2**	0.250
			63	**VCF3**	0.560
			80	**VCF4**	0.560
Red, long, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 90 x 90	4 screws	125	**VCF5**	1.200
			175	**VCF6**	1.200

Main and Emergency stop switch-disconnectors for mounting at back of an enclosure (1)

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	Ø22.5	12	**VCCD02**	0.392
			20	**VCCD01**	0.392
			25	**VCCD0**	0.392
			32	**VCCD1**	0.392
			40	**VCCD2**	0.392
		4 screws	12	**VCCF02**	0.527
			20	**VCCF01**	0.527
			25	**VCCF0**	0.527
			32	**VCCF1**	0.527
			40	**VCCF2**	0.527
			63	**VCCF3**	0.440
			80	**VCCF4**	0.680
Red, long, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 90 x 90	4 screws	125	**VCCF5**	1.320
			175	**VCCF6**	1.320

*(1) Unit supplied with a shaft extension **VZN17** or **VZ18** and a door interlock plate **KZ32** or **KZ74** (see page B3/14).*

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/24 to B3/25
Schemes: p. B3/25

Switch-disconnectors for high performance applications

- 3-pole rotary switch-disconnectors, 12 to 175 A
- Marking on operator .
- Padlockable operating handle (padlocks not supplied).
- Degree of protection IP 65.

PB121515.eps



VBD01

PB119275.eps



VBF4

PB121298.eps



VVE1

Main switch-disconnectors for door mounting

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Black, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 60 x 60	Ø22.5	12	**VBD02**	0.215
			20	**VBD01**	0.215
			25	**VBD0**	0.215
			32	**VBD1**	0.215
			40	**VBD2**	0.215
		4 screws	12	**VBF02**	0.250
			20	**VBF01**	0.250
			25	**VBF0**	0.250
			32	**VBF1**	0.250
			40	**VBF2**	0.250
			63	**VBF3**	0.560
			80	**VBF4**	0.560
Black, long, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 90 x 90	4 screws	125	**VBF5**	1.200
			175	**VBF6**	1.200

Main and Emergency stop switch-disconnectors

For mounting in an enclosure or for modular distribution boards

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Red, padlockable with 1 padlock (Ø4 to Ø6)	Yellow 45 x 45	4 screws	25	**VVE0**	0.250
			32	**VVE1**	0.250
			40	**VVE2**	0.250
			63	**VVE3**	0.530
			80	**VVE4**	0.530

Main switch-disconnectors

For mounting in an enclosure or for modular distribution boards

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Black, not padlockable	Black 45 x 45	4 screws	25	**VVD0**	0.250
			32	**VVD1**	0.250
			40	**VVD2**	0.250
			63	**VVD3**	0.560
			80	**VVD4**	0.560

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/24 to B3/25
Schemes: p. B3/25

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V5

580537.tif



VZ0

580538.tif



VZ11

580539.tif



VZ15

580540.tif



VZ20

Switch-disconnectors for high performance applications

Switch bodies

Description	Rating A	Reference
3-pole switch-disconnectors (1)	12	**V02**
	20	**V01**
	25	**V0**
	32	**V1**
	40	**V2**
	63	**V3**
	80	**V4**
	125	**V5**
	175	**V6**

Add-on modules

Description	Rating A	Reference
Main pole modules	12	**VZ02**
	20	**VZ01**
	25	**VZ0**
	32	**VZ1**
	40	**VZ2**
	63	**VZ3**
	80	**VZ4**
Neutral pole modules with early make and late break contacts (1)	12 to 40	**VZ11**
	63 to 80	**VZ12**
	125 and 175	**VZ13**
Earthing modules	12 to 40	**VZ14**
	63 and 80	**VZ15**
	125 and 175	**VZ16**

Auxiliary contact block modules

Description	Type	Reference
Auxiliary contact block modules with 2 auxiliary contacts	N/O + N/C (2)	**VZ7**
	N/O + N/O	**VZ20**

(1) Protection shrouds are available if required: see page B3/14.
(2) Late make N/O, early break N/C contacts

Characteristics: p. B3/18 to B3/21 | Dimensions: p. B3/24 to B3/25 | Schemes: p. B3/25

Switch-disconnectors for high performance applications

Maximum number of add-on modules that can be fitted on a switch body

1 add-on module on each side of the switch body

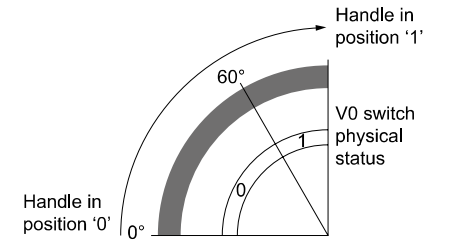
VZ7 or VZ20	+	**V0●**	+	VZ7 or VZ20	VZ7	+		+ VZ7
or				or	or		**V5**	or
VZ11 or VZ12	+	**V0**	+	VZ11 or VZ12	VZ20	+		+ VZ20
or		**to**		or	or		**or**	or
VZ14 or VZ15	+		+	VZ14 or VZ15	VZ13	+		+ VZ13
or				or	or		**V6**	or
VZ0●/VZ0 to VZ4	+	**V4**	+	VZ0●/VZ0 to VZ4	VZ16	+		+ VZ16

2 add-on modules on each side of the switch body

VZ0●	+ VZ0●	+	**V0●**	+ VZ0●	+ VZ7	or	VZ20	or	VZ11	or	VZ14
VZ0	+ VZ0	+	**V0**	+ VZ0	+ VZ7	or	VZ20	or	VZ11	or	VZ14
VZ1	+ VZ1	+	**V1**	+ VZ1	+ VZ7	or	VZ20	or	VZ11	or	VZ14
VZ2	+ VZ2	+	**V2**	+ VZ2	+ VZ7	or	VZ20	or	VZ11	or	VZ14
VZ3	+ VZ3	+	**V3**	+ VZ3	+ VZ7	or	VZ20	or	VZ12	or	VZ15
VZ4	+ VZ4	+	**V4**	+ VZ4	+ VZ7	or	VZ20	or	VZ12	or	VZ15

Note: The add-on modules mounted next to the switch body are main pole modules. Maximum of 3 main pole modules per switch body.

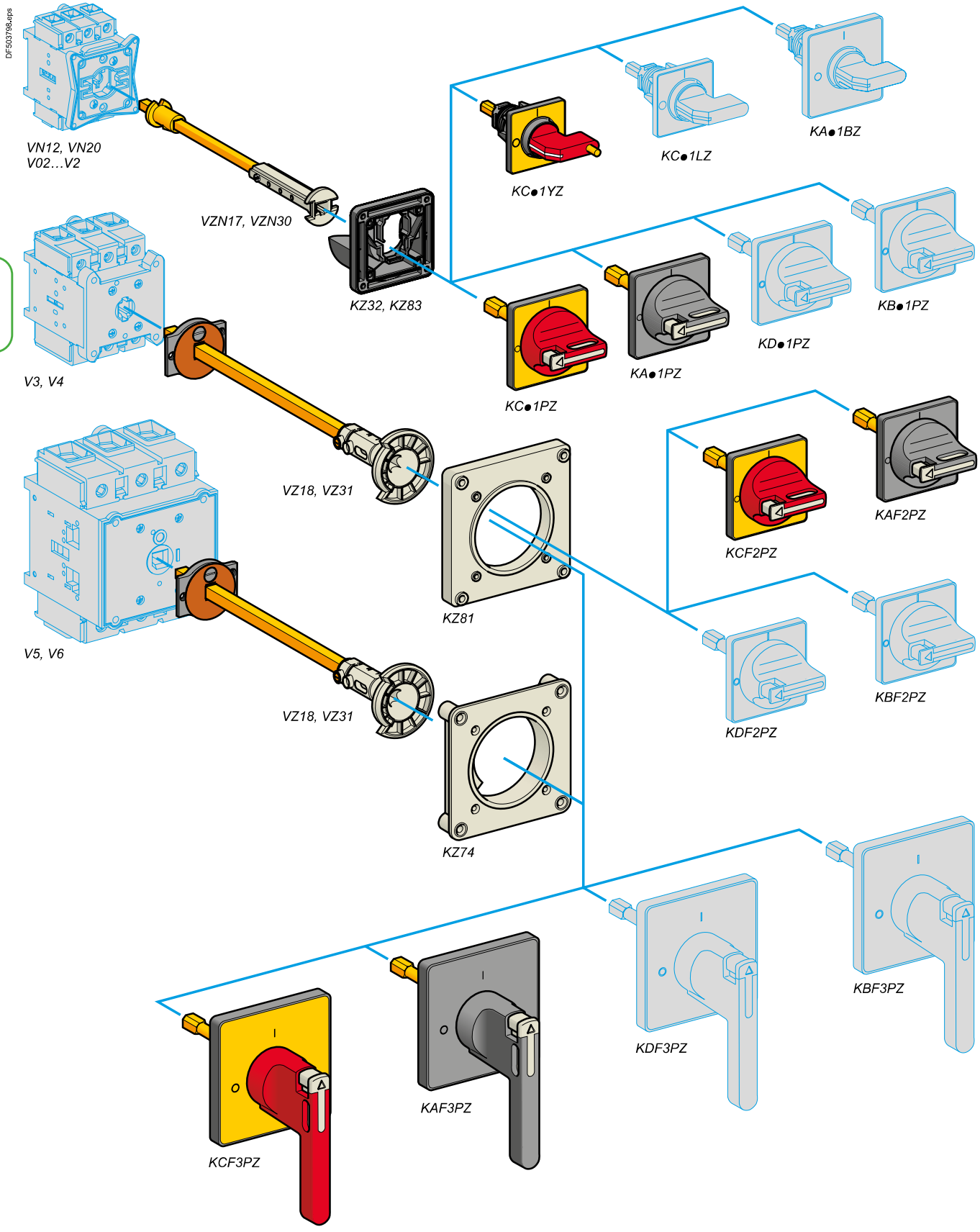
Auxiliary switch switching angles



Switching angle representation - example with V0 switch

0: contact open 1: contact close

Handle travel 0 > 1		0°	30°	60°	90°
3-pole switch-disconnectors V02 / V01 / V0 / V1 / V2 / V3 / V4 / V5 / V6			60°		
			0		1
Main pole modules VZ02 / VZ01 / VZ0 / VZ1 / VZ2 / VZ3 / VZ4			60°		
			0		1
Neutral pole modules with early make and late break contacts VZ11 / VZ12 / VZ13			45°		
			0		1
Auxiliary contact block modules with 2 auxiliary contacts (N/0+N/C) VZ7 Late make N0 and earlier break NC (Early break N0 and late make NC for travel 1-0)				75°	
	N/0		0		1
	N/C	1	0		
			20°		
Auxiliary contact block modules with 2 auxiliary contacts (N/0+N/C) VZ20			60°		
			0		1
			0		1
			60°		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VN12, VN20
V02…V2
VZN17, VZN30
KZ32, KZ83
KC●1YZ
KC●1LZ
KA●1BZ
V3, V4
KC●1PZ
KA●1PZ
KD●1PZ
KB●1PZ
VZ18, VZ31
KZ81
KCF2PZ
KAF2PZ
V5, V6
VZ18, VZ31
KDF2PZ
KBF2PZ
KZ74
KCF3PZ
KAF3PZ
KDF3PZ
KBF3PZ

Product references

Characteristics: p. B3/18 to B3/21 | Dimensions: p. B3/24 to B3/25 | Schemes: p. B3/25

- Marking on operator .
- Padlockable operating handle (padlocks not supplied).
- Degree of protection IP 65.

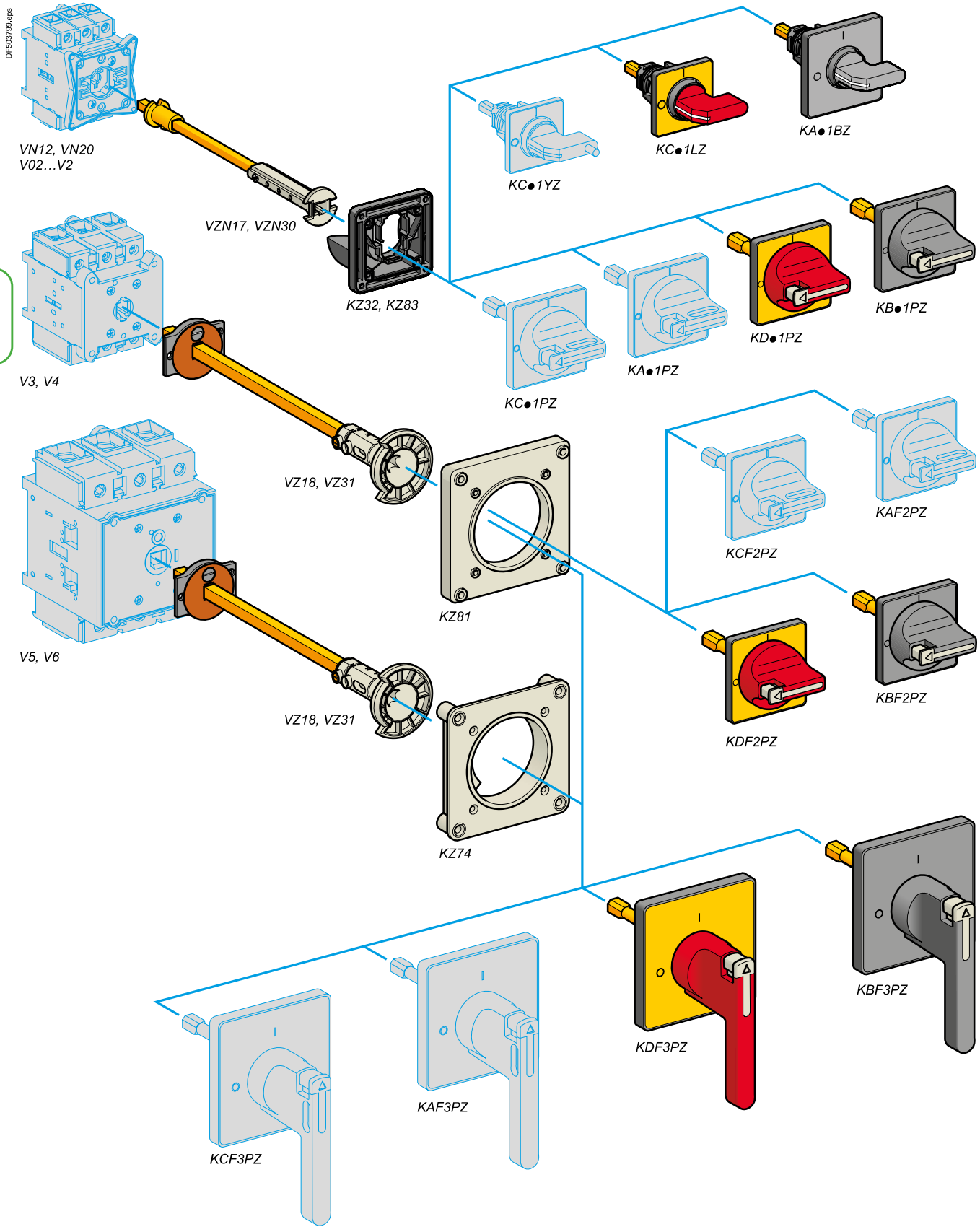
Handles and front plates for main and Emergency stop switch-disconnectors

For switch body	Operator			Reference
	Handle	Front plate		
		Dimensions	Fixing	
		mm		
VN12, VN20 V02…V2	Red, padlockable with 1 padlock (Ø4 to Ø6)	Yellow 45 x 45	Ø22.5	**KCC1YZ**
			4 screws	**KCE1YZ**
	Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	Ø22.5	**KCD1PZ**
			4 screws	**KCF1PZ**
V3 and V4	Red, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 60 x 60	4 screws	**KCF2PZ**
V5 and V6	Red, long, padlockable with up to 3 padlocks (Ø4 to Ø8)	Yellow 90 x 90	4 screws	**KCF3PZ** (1)

Handles and front plates for main switch-disconnectors

For switch body	Operator			Reference
	Handle	Front plate		
		Dimensions	Fixing	
		mm		
VN12, VN20 V02…V2	Black, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 60 x 60	Ø22.5	**KAD1PZ**
			4 screws	**KAF1PZ**
V3 and V4	Black, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 60 x 60	4 screws	**KAF2PZ**
V5 and V6	Black, long, padlockable with up to 3 padlocks (Ø4 to Ø8)	Black 90 x 90	4 screws	**KAF3PZ** (1)

*(1) For door mounting of 63 and 80 A switch-disconnectors, adapter plate **KZ106** must be ordered separately (see page B3/14).*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VN12, VN20
V02…V2
VZN17, VZN30
KZ32, KZ83
KC●1YZ
KC●1LZ
KA●1BZ
V3, V4
KC●1PZ
KA●1PZ
KD●1PZ
KB●1PZ
VZ18, VZ31
KZ81
KCF2PZ
KAF2PZ
V5, V6
VZ18, VZ31
KZ74
KDF2PZ
KBF2PZ
KCF3PZ
KAF3PZ
KDF3PZ
KBF3PZ

Product references

Characteristics: p. B3/18 to B3/21 | Dimensions: p. B3/24 to B3/25 | Schemes: p. B3/25

- Marking on operator .
- Degree of protection IP 65.

Handles and front plates for Emergency stop switch-disconnectors

For switch body	Operator			Reference
	Handle	Front plate		
		Dimensions	Fixing	
		mm		
VN12, VN20 V02…V2	Red, not padlockable	Yellow 45 x 45	Ø22.5	**KCC1LZ**
			4 screws	**KCE1LZ**
		Yellow 60 x 60	Ø22.5	**KDD1PZ**
			4 screws	**KDF1PZ**
V3 and V4	Red, long, not padlockable	Yellow 60 x 60	4 screws	**KDF2PZ**
V5 and V6	Red, long, not padlockable	Yellow 90 x 90	4 screws	**KDF3PZ** (1)

Handles and front plates for switch-disconnectors

For switch body	Operator			Reference
	Handle	Front plate		
		Dimensions	Fixing	
		mm		
VN12, VN20 V02…V2	Black, not padlockable	Black 45 x 45	4 screws	**KAE1BZ**
		Black 60 x 60	Ø22.5	**KBD1PZ**
			4 screws	**KBF1PZ**
V3 and V4	Black, not padlockable	Black 60 x 60	4 screws	**KBF2PZ**
V5 and V6	Black, not padlockable	Black 90 x 90	4 screws	**KBF3PZ** (1)

*(1) For door mounting of 63 and 80 A switch-disconnectors, adapter plate **KZ106** must be ordered separately (see next page).*

Product references

Characteristics: p. B3/18 to B3/21
Dimensions: p. B3/24 to B3/25
Schemes: p. B3/25



VZ8



VZ26



VZ29



VZ31



KZ32



KZ81

Input terminal protection shrouds

Description	For use on	Reference
For switch bodies (3-pole shroud)	V02…V2	**VZ8**
	V3 and V4	**VZ9**
	V5 and V6	**VZ10**
For add-on pole modules (single-pole shroud)	VZ02…VZ2, VZ11, VZ14	**VZ26**
	VZ3, VZ4, VZ12, VZ15	**VZ27**
	VZ13, VZ16	**VZ28**
For contact blocks with 2 auxiliary contacts	–	**VZ29**

Components for door interlocking

For rear fixing switch-disconnectors mounted at the back of an enclosure, in addition to a direct operator

Description	For use on	Distance enc. back/door	Sold in lots of	Unit reference
		mm		
Shaft extensions	VN12, VN20 V02…V2	300…330	1	**VZN17** (1)
		400…430	1	**VZN30** (1)
	V02…V2	300…330	1	**VZ17**
		400…430	1	**VZ30**
	V3 and V4	300…320	1	**VZ18**
		400…420	1	**VZ31**
	V5 and V6	330…350	1	**VZ18**
		430…450	1	**VZ31**
Door interlock plates	VN12, VN20 V02…V2	–	5	**KZ32**
	V3…V6	–	5	**KZ74**

Description	For use on	Front plate dimensions	Sold in lots of	Unit reference
		mm		
Plates for door mounting of handles with 4 screw fixing	VN12, VN20 V02…V2	45 x 45 or 60 x 60	5	**KZ83**
	V3…V6	60 x 60 or 90 x 90	5	**KZ81**
Adapter plate for switch-disconnectors	V3 and V4	90 x 90	5	**KZ106**

(1) Can be used with V02 to V2 switches.