TeSys protection components
Mini-VARIO switch disconnectors for standard applications
Operators and accessories

- Degree of protection IP 65.
- Marking on operator .
- Padlockable operating handle (padlocks not supplied).
- Operator fixing by 1 Ø 22.5 hole; for other operators see pages 4/17 and 4/19.
- For other accessories and empty enclosures, see pages 4/20, 4/21 and 2/5.

Operators for main and Emergency stop switch disconnectors

Handle	Front plate mm	Reference	Weight kg
Red, padlockable with 1 padlock (Ø 4 to Ø 6)	Yellow 45 x 45	**KCC 1YZ**	0.050
Red, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 60 x 60	**KCD 1PZ**	0.084

Operators for main switch disconnectors

Handle	Front plate mm	Reference	Weight kg
Black, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 60 x 60	**KAD 1PZ**	0.084

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	Weight
	mm	mm			kg
Shaft extensions	–	300…330	1	**VZN 17**	0.100
		400…430	1	**VZN 30**	0.130
Door interlock plate	45 x 45 or 60 x 60	–	5	**KZ 32**	0.170
Plate for door mounting	45 x 45 or 60 x 60	–	5	**KZ 83**	0.205

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/22 and 4/23
Schemes : page 4/23

TeSys protection components
VARIO switch disconnectors for high performance applications
Complete units



VCF 0



VCF 5



VCCF 0

- 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 (Ø 4 to Ø 8)	Yellow 60 x 60	Ø 22.5	12	**VCD 02**	0.215
			20	**VCD 01**	0.215
			25	**VCD 0**	0.215
			32	**VCD 1**	0.215
			40	**VCD 2**	0.215
		4 screws	12	**VCF 02**	0.250
			20	**VCF 01**	0.250
			25	**VCF 0**	0.250
			32	**VCF 1**	0.250
			40	**VCF 2**	0.250
			63	**VCF 3**	0.560
			80	**VCF 4**	0.560
Red, long, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 90 x 90	4 screws	125	**VCF 5**	1.200
			175	**VCF 6**	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 (Ø 4 to Ø 8)	Yellow 60 x 60	Ø 22.5	12	**VCCD 02**	0.392
			20	**VCCD 01**	0.392
			25	**VCCD 0**	0.392
			32	**VCCD 1**	0.392
			40	**VCCD 2**	0.392
		4 screws	12	**VCCF 02**	0.527
			20	**VCCF 01**	0.527
			25	**VCCF 0**	0.527
			32	**VCCF 1**	0.527
			40	**VCCF 2**	0.527
			63	**VCCF 3**	0.440
			80	**VCCF 4**	0.680
Red, long, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 90 x 90	4 screws	125	**VCCF 5**	1.320
			175	**VCCF 6**	1.320

*(1) Unit supplied with a shaft extension **VZN 17** and a door interlock plate **KZ 32** or **KZ 74** (see page 4/20).*

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/24 and 4/25
Schemes : page 4/25

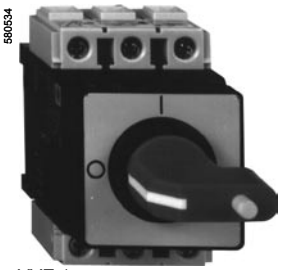
TeSys protection components
VARIO switch disconnectors for high performance applications
Complete units


511162

VBD 0


511163

VBF 4


590534

VVE 1

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

Main switch disconnectors for door mounting

Handle	Front plate mm	Fixing	Rating A	Reference	Weight kg
Black, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 60 x 60	Ø 22.5	12	**VBD 02**	0.215
			20	**VBD 01**	0.215
			25	**VBD 0**	0.215
			32	**VBD 1**	0.215
			40	**VBD 2**	0.215
		4 screws	12	**VBF 02**	0.250
			20	**VBF 01**	0.250
			25	**VBF 0**	0.250
			32	**VBF 1**	0.250
			40	**VBF 2**	0.250
			63	**VBF 3**	0.560
			80	**VBF 4**	0.560
Red, long, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 90 x 90	4 screws	125	**VBF 5**	1.200
			175	**VBF 6**	1.200

Main and Emergency stop switch disconnectors

For mounting in an enclosure or for modular distribution boards

Handle	Front plate mm	Rating A	Reference	Weight kg
Red, padlockable with 1 padlock (Ø 4 to Ø 6)	Yellow 45 x 45	25	**VVE 0**	0.250
		32	**VVE 1**	0.250
		40	**VVE 2**	0.250
		63	**VVE 3**	0.530
		80	**VVE 4**	0.530

Main switch disconnectors

For mounting in an enclosure or for modular distribution boards

Handle	Front plate mm	Rating A	Reference	Weight kg
Black, not padlockable	Black 45 x 45	25	**VVD 0**	0.250
		32	**VVD 1**	0.250
		40	**VVD 2**	0.250
		63	**VVD 3**	0.560
		80	**VVD 4**	0.560

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/24 and 4/25
Schemes : page 4/25

TeSys protection components

VARIO switch disconnectors for high performance applications

Switch bodies, add-on modules, auxiliary contacts

(for customer assembly)



V0



V5



VZ 0



VZ 11



VZ 15



VZ 20

Switch bodies

Description	Rating A	Reference	Weight kg
3-pole switch disconnectors *(1)*	12	**V02**	0.200
	20	**V01**	0.200
	25	**V0**	0.200
	32	**V1**	0.200
	40	**V2**	0.200
	63	**V3**	0.500
	80	**V4**	0.500
	125	**V5**	0.900
	175	**V6**	0.900

Add-on modules

Description	Rating A	Reference	Weight kg
Main pole modules	12	**VZ 02**	0.050
	20	**VZ 01**	0.050
	25	**VZ 0**	0.050
	32	**VZ 1**	0.050
	40	**VZ 2**	0.050
	63	**VZ 3**	0.100
	80	**VZ 4**	0.100
Neutral pole modules with early make and late break contacts *(1)*	12 to 40	**VZ 11**	0.050
	63 to 80	**VZ 12**	0.100
	125 and 175	**VZ 13**	0.250
Earthing modules	12 to 40	**VZ 14**	0.050
	63 and 80	**VZ 15**	0.100
	125 and 175	**VZ 16**	0.250

Auxiliary contact block modules

Description	Type	Reference	Weight kg
Auxiliary contact block modules with 2 auxiliary contacts	N/O + N/C *(2)*	**VZ 7**	0.050
	N/O + N/O	**VZ 20**	0.050

(1) Protection shrouds are available if required: see page 4/20.
(2) Late make N/O, early break N/C contacts

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/24 and 4/25
Schemes : page 4/25

TeSys protection components
VARIO switch disconnectors for high performance applications
Switch bodies, add-on modules, auxiliary contacts
(for customer assembly)

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

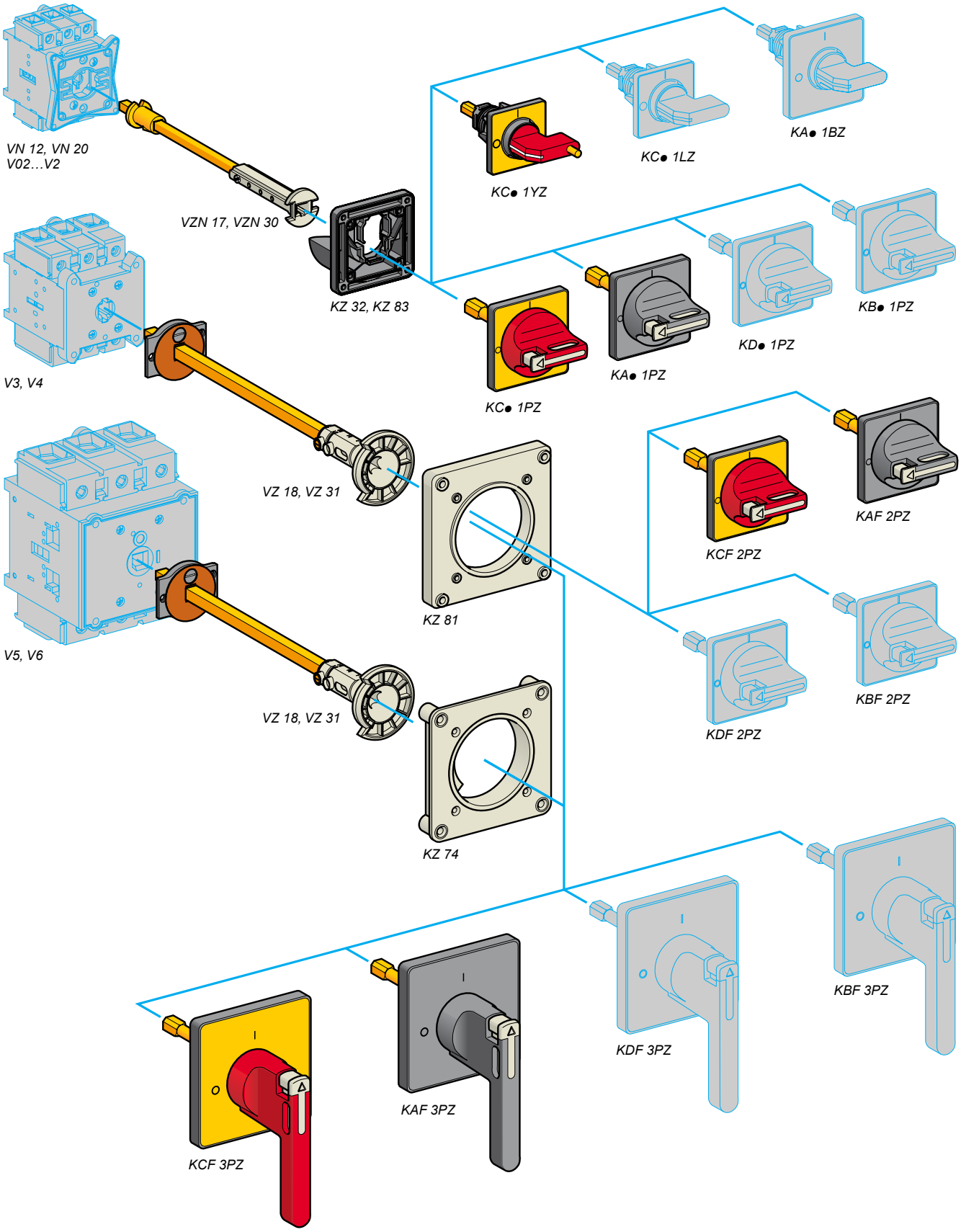
VZ 7 or VZ 20	+	**V0●**	+	VZ 7 or VZ 20	VZ 7	+	**V5**	+ VZ 7
or				or	or			or
VZ 11 or VZ 12	+	**V0**	+	VZ 11 or VZ 12	VZ 20	+	**or**	+ VZ 20
or		**to**		or	or			or
VZ 14 or VZ 15	+		+	VZ 14 or VZ 15	VZ 13	+	**V6**	+ VZ 13
or		**V4**		or	or			or
VZ 0●/VZ 0 to VZ 4	+		+	VZ 0●/VZ 0 to VZ 4	VZ 16	+		+ VZ 16

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

VZ 0●	+	VZ 0●	+	**V0●**	+	VZ 0●	+	VZ 7	or	VZ 20	or	VZ 11	or	VZ 14
VZ 0	+	VZ 0	+	**V0**	+	VZ 0	+	VZ 7	or	VZ 20	or	VZ 11	or	VZ 14
VZ 1	+	VZ 1	+	**V1**	+	VZ 1	+	VZ 7	or	VZ 20	or	VZ 11	or	VZ 14
VZ 2	+	VZ 2	+	**V2**	+	VZ 2	+	VZ 7	or	VZ 20	or	VZ 11	or	VZ 14
VZ 3	+	VZ 3	+	**V3**	+	VZ 3	+	VZ 7	or	VZ 20	or	VZ 12	or	VZ 15
VZ 4	+	VZ 4	+	**V4**	+	VZ 4	+	VZ 7	or	VZ 20	or	VZ 12	or	VZ 15

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

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/24 and 4/25
Schemes : page 4/25


VN 12, VN 20
V02…V2
VZN 17, VZN 30
KZ 32, KZ 83
KC● 1YZ
KC● 1LZ
KA● 1BZ
V3, V4
KC● 1PZ
KA● 1PZ
KD● 1PZ
KB● 1PZ
VZ 18, VZ 31
KZ 81
KCF 2PZ
KAF 2PZ
V5, V6
VZ 18, VZ 31
KZ 74
KDF 2PZ
KBF 2PZ
KCF 3PZ
KAF 3PZ
KDF 3PZ
KBF 3PZ

TeSys protection components
Mini-VARIO and VARIO switch disconnectors
Operators, handles and front plates
(for customer assembly)

- 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

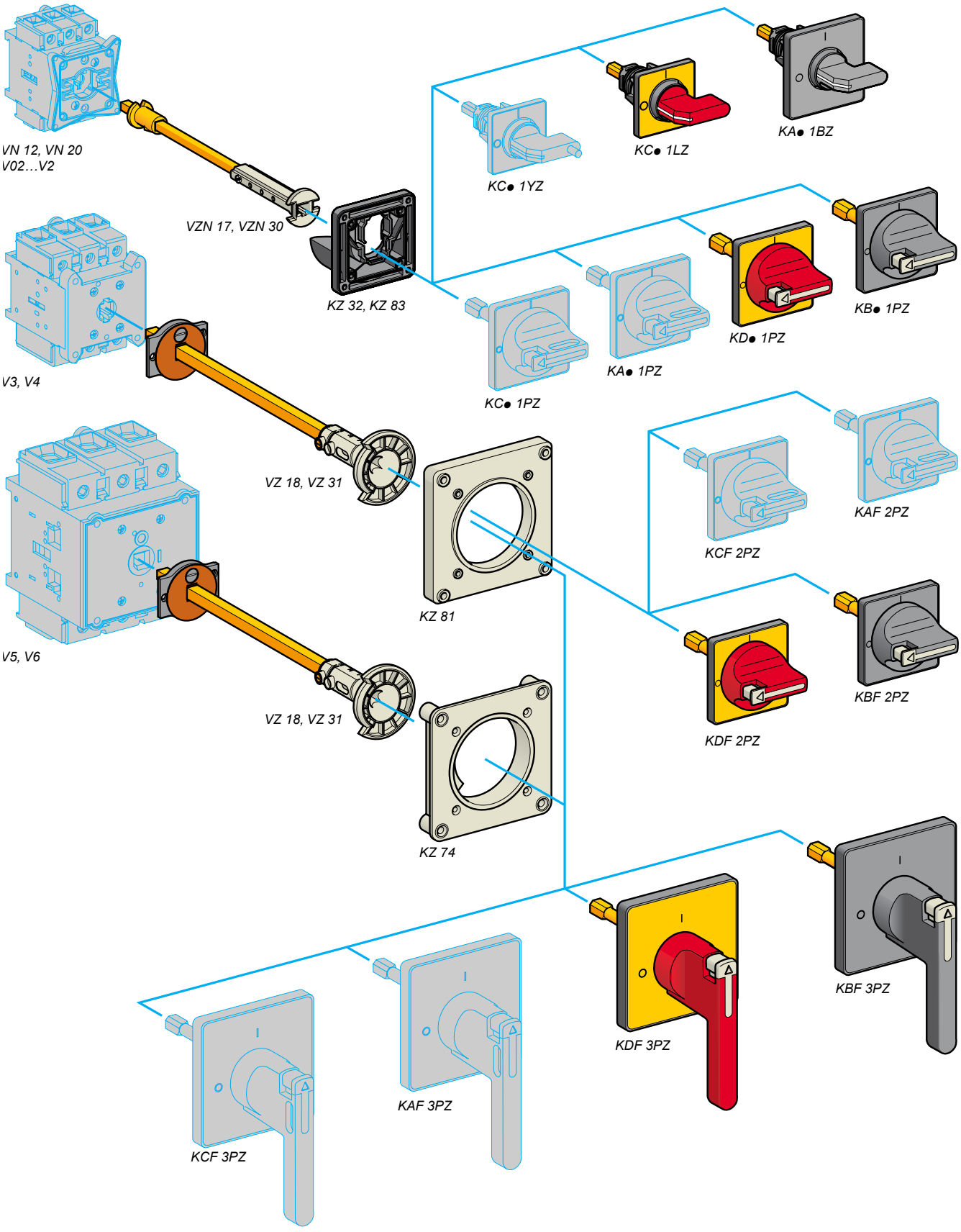
For switch body	Operator			Reference	Weight
	Handle	Front plate			
		Dimensions	Fixing		
		mm			kg
VN 12, VN 20 V02…V2	Red, padlockable with 1 padlock (Ø 4 to Ø 6)	Yellow 45 x 45	Ø 22.5	**KCC 1YZ**	0.050
			4 screws	**KCE 1YZ**	0.040
	Red, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 60 x 60	Ø 22.5	**KCD 1PZ**	0.082
			4 screws	**KCF 1PZ**	0.075
V3 and V4	Red, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 60 x 60	4 screws	**KCF 2PZ**	0.070
V5 and V6	Red, long, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Yellow 90 x 90	4 screws	**KCF 3PZ** *(1)*	0.160

Handles and front plates for main switch disconnectors

For switch body	Operator			Reference	Weight
	Handle	Front plate			
		Dimensions	Fixing		
		mm			kg
VN 12, VN 20 V02…V2	Black, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 60 x 60	Ø 22.5	**KAD 1PZ**	0.082
			4 screws	**KAF 1PZ**	0.075
V3 and V4	Black, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 60 x 60	4 screws	**KAF 2PZ**	0.070
V5 and V6	Black, long, padlockable with up to 3 padlocks (Ø 4 to Ø 8)	Black 90 x 90	4 screws	**KAF 3PZ** *(1)*	0.160

*(1) For door mounting of 63 and 80 A switch disconnectors, adapter plate **KZ 106** must be ordered separately (see page 4/20).*

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/22 to 4/25
Schemes : pages 4/23 and 4/25


VN 12, VN 20
V02…V2
VZN 17, VZN 30
KZ 32, KZ 83
KC● 1YZ
KC● 1LZ
KA● 1BZ
V3, V4
KC● 1PZ
KA● 1PZ
KD● 1PZ
KB● 1PZ
VZ 18, VZ 31
KZ 81
KCF 2PZ
KAF 2PZ
V5, V6
VZ 18, VZ 31
KZ 74
KDF 2PZ
KBF 2PZ
KCF 3PZ
KAF 3PZ
KDF 3PZ
KBF 3PZ

TeSys protection components
Mini-VARIO and VARIO switch disconnectors
Operators, handles and front plates
(for customer assembly)

- Marking on operator
- Degree of protection IP 65.

Handles and front plates for Emergency stop switch disconnectors

For switch body	Operator			Reference	Weight
	Handle	Front plate			
		Dimensions	Fixing		
		mm			kg
VN 12, VN 20 V02…V2	Red, not padlockable	Yellow 45 x 45	Ø 22.5	**KCC 1LZ**	0.050
			4 screws	**KCE 1LZ**	0.040
		Yellow 60 x 60	Ø 22.5	**KDD 1PZ**	0.082
			4 screws	**KDF 1PZ**	0.075
V3 and V4	Red, long, not padlockable	Yellow 60 x 60	4 screws	**KDF 2PZ**	0.070
V5 and V6	Red, long, not padlockable	Yellow 90 x 90	4 screws	**KDF 3PZ** *(1)*	0.160

Handles and front plates for switch disconnectors

For switch body	Operator			Reference	Weight
	Handle	Front plate			
		Dimensions	Fixing		
		mm			kg
VN 12, VN 20 V02…V2	Black, not padlockable	Black 45 x 45	Ø 22.5	**KAC 1BZ**	0.050
			4 screws	**KAE 1BZ**	0.040
		Black 60 x 60	Ø 22.5	**KBD 1PZ**	0.055
			4 screws	**KBF 1PZ**	0.045
V3 and V4	Black, not padlockable	Black 60 x 60	4 screws	**KBF 2PZ**	0.070
V5 and V6	Black, not padlockable	Black 90 x 90	4 screws	**KBF 3PZ** *(1)*	0.160

*(1) For door mounting of 63 and 80 A switch disconnectors, adapter plate **KZ 106** must be ordered separately (see next page).*

4



VZ 8



VZ 26

Input terminal protection shrouds

Description	For use on	Reference	Weight kg
For switch bodies (3-pole shroud)	V02…V2	**VZ 8**	0.015
	V3 and V4	**VZ 9**	0.020
	V5 and V6	**VZ 10**	0.060
For add-on pole modules (single-pole shroud)	VZ 02…VZ 2, VZ 11, VZ 14	**VZ 26**	0.005
	VZ 3, VZ 4, VZ 12, VZ 15	**VZ 27**	0.007
	VZ 13, VZ 16	**VZ 28**	0.020
For contact blocks with 2 auxiliary contacts	–	**VZ 29**	0.005

Components for door interlocking

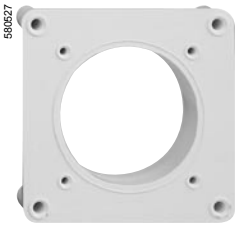
For rear fixing switch disconnectors mounted at the back of an enclosure, in addition to a direct operator

Description	For use on	Distance enc. back/door	Sold in lots of	Unit reference	Weight
		mm			kg
Shaft extensions	VN 12, VN 20 V02…V2	300…330	1	**VZN 17** *(1)*	0.100
		400…430	1	**VZN 30** *(1)*	0.130
	V02…V2	300…330	1	**VZ 17**	0.075
		400…430	1	**VZ 30**	0.125
	V3 and V4	300…320	1	**VZ 18**	0.170
		400…420	1	**VZ 31**	0.215
	V5 and V6	330…350	1	**VZ 18**	0.170
		430…450	1	**VZ 31**	0.215
Door interlock plates	VN 12, VN 20 V02…V2	–	5	**KZ 32**	0.177
	V3…V6	–	5	**KZ 74**	0.020



KZ 32

Description	For use on	Front plate dimensions	Sold in lots of	Unit reference	Weight
		mm			kg
Plates for door mounting of handles with 4 screw fixing	VN 12, VN 20 V02…V2	45 x 45 or 60 x 60	5	**KZ 83**	0.205
	V3…V6	60 x 60 or 90 x 90	5	**KZ 81**	0.010
Adapter plate for switch disconnectors	V3 and V4	90 x 90	5	**KZ 106**	0.075



KZ 81

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

Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/22 to 4/25
Schemes : pages 4/23 and 4/25

TeSys protection components
Mini-VARIO and VARIO switch disconnectors
Accessories

812783



KZ 15

580528



KZ 67

812785



Z01

Accessories for operators

Description	For use on	Front plate dimensions	Sold in lots of	Unit reference	Weight
		mm			kg
Legend holder with silver coloured blank legend plate	Front plate	45 x 45	5	**KZ 13**	0.060
		60 x 60	5	**KZ 15**	0.065
		90 x 90	5	**KZ 103**	0.070
Legend holders without legend plate	Front plate	45 x 45	20	**KZ 14**	0.060
		60 x 60	10	**KZ 16**	0.065
		90 x 90	5	**KZ 101**	0.070
Silver coloured blank legend plates for engraving by customer	KZ 14	–	20	**KZ 76**	0.020
	KZ 16	–	10	**KZ 77**	0.010
	KZ 101	–	5	**KZ 100**	0.005
Seals	VN 12, VN 20	45 x 45	5	**KZ 65**	0.037
	V02…V2	60 x 60	5	**KZ 66**	0.033
	V3 and V4	60 x 60	5	**KZ 62**	0.033
	V3…V6	90 x 90	5	**KZ 67**	0.064
Tightening tool	For operators with Ø 22.5 fixing	–	5	**Z01**	0.050

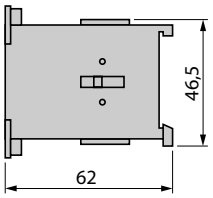
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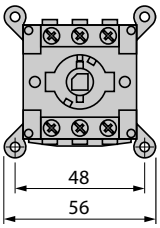
Characteristics : pages 4/4 to 4/7
Dimensions : pages 4/22 to 4/25
Schemes : pages 4/23 and 4/25

Dimensions

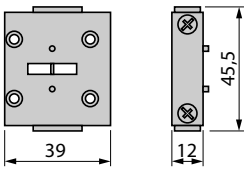
Switch disconnectors

Switch bodies VN 12, VN 20

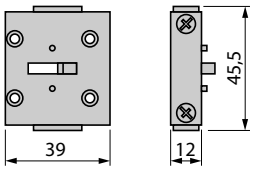




Add-on modules VZN 12, VZN 20



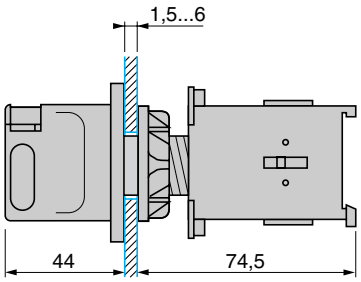
Add-on modules VZN 11, VZN 14 VZN 05 and VZN 06

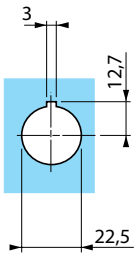


Mounting

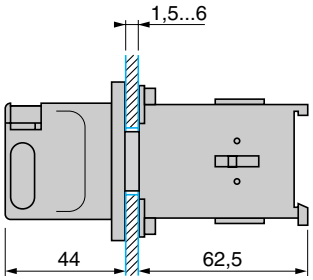
Switch disconnector mounted on enclosure door

VN 12, VN 20
Single hole fixing

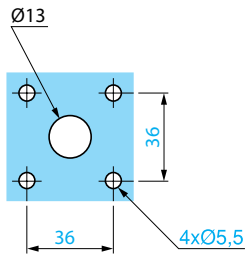




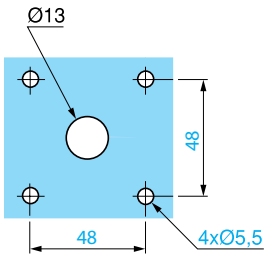
VN 12, VN 20
4 screw fixing



45 x 45 front plate



60 x 60 front plate



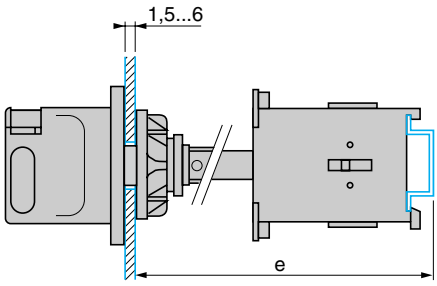
Characteristics : page 4/4
References : page 4/14
Schemes : page 4/23

Mounting (continued)

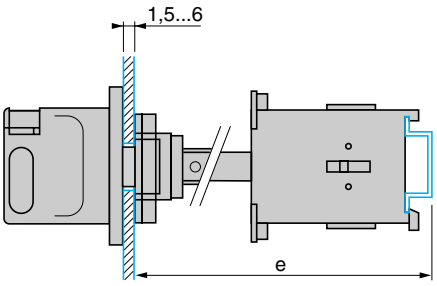
Switch disconnector mounted at back of enclosure with shaft extension VZN 17 or VZN 30 (clip-on mounting on ⊔ rail)

VN 12, VN 20

Single hole fixing



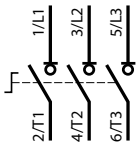
4 screw fixing



	Shaft extension	Distance (e) enclosure back/door
		mm
VN 12, VN 20	VZN 17	300…330
	VZN 30	400…430

Schemes

Switch body VN 12, VN 20



Main pole module VZN 12, VZN 20



Neutral pole module VZN 11



Auxiliary contact blocks

VZN 05



VZN 06



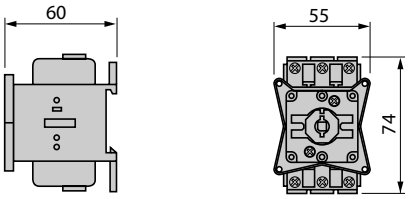
Characteristics : page 4/4

References : page 4/14

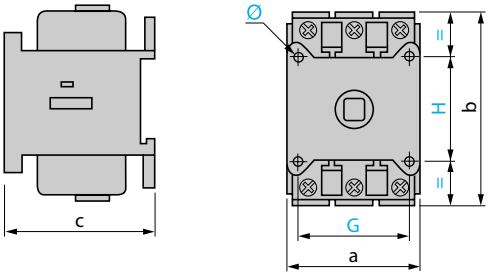
Dimensions

Switch disconnectors

Switch bodies V0●, V0 to V2



Switch bodies V3 to V6



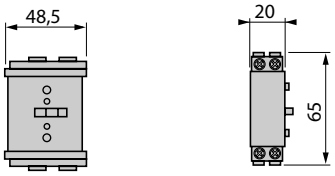
	a	b	c	G	H	Ø
V3, V4	60	83	65	48	48	5.5
V5, V6	90	125	90	68	68	5.5

Add-on modules VZ 02 to VZ 4 and VZ 11 to VZ 16



	a	b	c
VZ 02 and VZ 01, VZ 0 to VZ 2, VZ 11, VZ 14	16	74	35
VZ 3, VZ 4, VZ 12, VZ 15	20	83	46
VZ 13, VZ 16	30	125	63

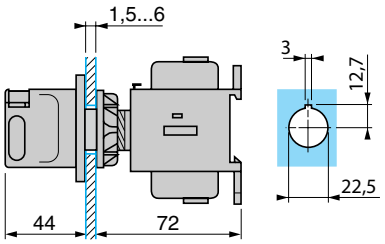
Add-on modules VZ 7, VZ 20



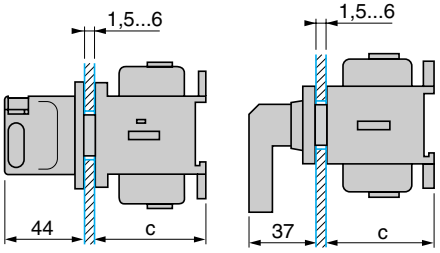
Mounting

Switch disconnector mounted on enclosure door

Single hole fixing V0●, V0 to V4

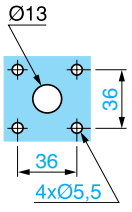


4 screw fixing V0●, V0 to V4

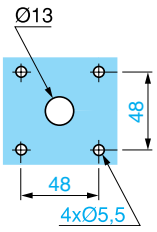


	c
V0●, V0 to V2	60
V3, V4	65

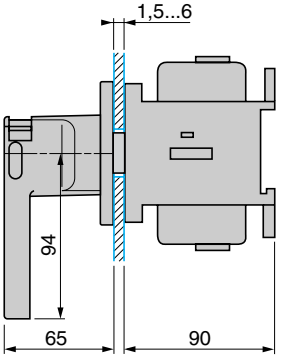
4 screw fixing 45 x 45 front plate V0●, V0 to V2



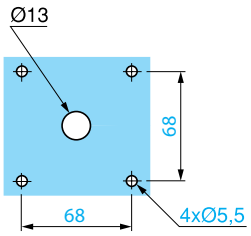
4 screw fixing 60 x 60 front plate V0●, V0 to V4



V5 and V6. 4 screw fixing



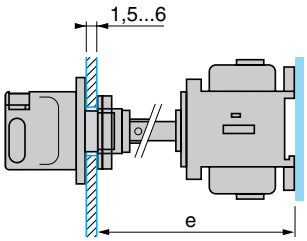
90 x 90 front plate



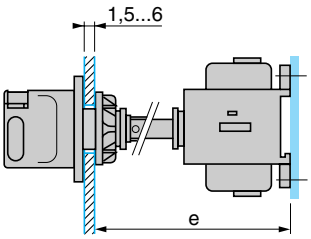
Mounting (continued)

Switch disconnector mounted at back of enclosure

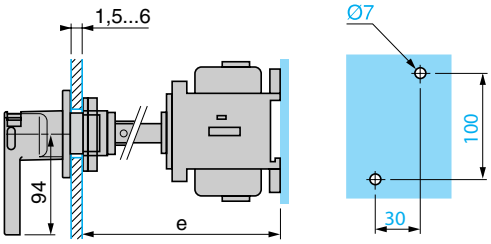
4 screw fixing
V0●, V0 to V2 with shaft extension VZ 17 or VZ 30 (clip-on mounting on ⊥ rail possible for V0● to V2)



Single hole fixing
V3 to V4 with shaft extension VZ 18 or VZ 31



V5 and V6 with shaft extension VZ 18 or VZ 31

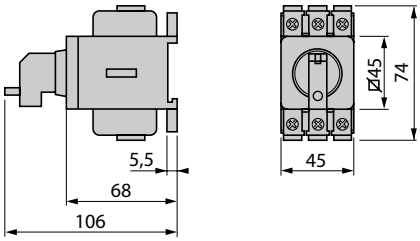


	Shaft extension	Distance (e) enc.back/door	Ø	G
		mm		
V02 and V01 V0 to V2	VZ 17	300…330	2 x 4.2	15
	VZ 30	400…430	2 x 4.2	15
V3 and V4	VZ 18	300…320	2 x 5	20
	VZ 31	400…420	2 x 5	20

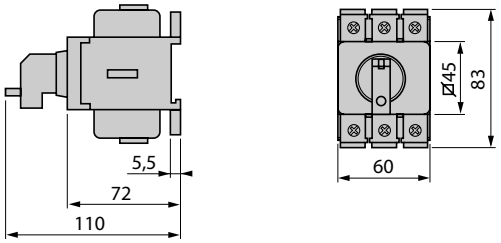
	Shaft extension	Distance (e) enc. back/door
		mm
V5 and V6	VZ 18	300…350
	VZ 31	430…450

Switch disconnectors for modular distribution boards

VV● 0 to VV● 2



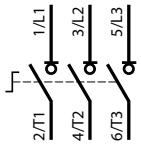
VV● 3 to VV● 4



Schemes

Switch body

V02 and V01
V0 to V6



Main pole module

VZ 02 and VZ 01
VZ 0 to VZ 4



Neutral pole module

VZ 11 to VZ 13



Auxiliary contact blocks

VZ 7



VZ 20

