

Overview

The **Z Series** switch-disconnectors have the following main characteristics:

- Polyester self-extinguishing and anti-trace insulating case
- Fixed contacts made of silver-plated copper
- Fast action
- 4 poles switch-disconnectors with all phase break (the neutral contact closes before and opens after the others)
- Double break for each pole, power supply connection is allowed either in the upper or lower side
- 3-4-6- 8 poles versions
- Auxiliary contacts directly driven by the disconnector switch actuator.
- Suitable for polluted environments and tropical climates according to IEC 68-2 Std.



It's also available a wide range of optional accessories that allow the use of **BREMAS** switch disconnectors in different installations.

The standard handle has door interlock in "OFF" position and a plate for door fixing (0-1 position conforms to IEC standards and ON-OFF conforms to BS standards).

The handles have IP40 (IP55/IP65 with optional gasket) protection degree of and offer the possibility to apply up to 3 padlocks in "OFF" position. Padlockable handles in "ON" or in both "ON" and "OFF" positions are optionally available.

Protection shields are available for series with fuses (optional).



All switch-disconnectors are supplied with padlockable handle

Technical data IEC 947-3 EN 60947-3

ZNTS - ZTS

Rated insulation voltage	Ui	V (a.c.)
	Ui	V (d.c.)
Rated impulse withstand voltage	Uimp	kV
Rated thermal current for open switch ¹	Ith	A
Rated thermal current for enclosed switch ¹	Ithe	A
Number of poles		
Power dissipation for each pole		W
Rated operating current Ie		
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	690V	A
	1000V	A
Rated operating power		
AC-23A Switching of motor loads or other highly inductive loads	415V	Kw (A)
	500V	Kw (A)
	690V	Kw (A)
DC-23A Switching of highly inductive loads (e.g. series motors)	220V	Kw (A)
	440V	Kw (A)
	600V	Kw (A)
Reactive power ²	380V	kVAr
Rated short time withstand current (1s)	Icw	kA
Rated short-circuit make capacity	Icm	kA
Mechanical life		
Electrical life		
Weight		
3 poles with link bar covers		Kg
4 poles with link bar covers (4th leaning pole)		Kg
3 poles with visible isolation		Kg
4 poles with visible isolation (4th leaning pole)		Kg
6 poles		Kg
8 poles		Kg
3 poles		Kg
4 poles		Kg

Notes:

¹ = max Ta=40°C

² = due to harmonics and tolerance of the capacitors, the rated values have been reduced by 33%

ZNTS125 ZNTSB125	ZNTS160	ZTS125 ZTSB125	ZTS160 ZTSB160	ZTS200 ZTSB200	ZTS250 ZTSB250	ZTS400 ZTSB400	ZTS630 ZTSB630	ZTS630 (visible insulation)	ZTS800 ZTSB800	ZTS1000 ZTSB1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
6	6	8	8	8	8	8	8	8	8	8
125	160	125	160	200	250	400	630	630	800	1000
100	125	125	150	160	250	340	550	630	630	800
3-4	3-4	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4	3-4-6-8	3-4-6-8
6	6	3,1	5,1	8	8,2	20	50	50	50	55
125	-	-	-	-	-	-	-	-	-	-
160	125	160	200	250	400	630	630	800	1000	
55 (125)	75 (160)	55 (125)	75 (160)	105 (200)	132 (250)	200 (400)	355 (630)	355 (630)	400 (800)	500 (1000)
75 (125)	100 (125)	75 (125)	100 (160)	125 (200)	160 (250)	280 (400)	425 (630)	425 (630)	560 (800)	670 (1000)
90 (125)	140 (125)	90 (125)	140 (160)	175 (200)	220 (250)	375 (400)	375 (400)	375 (400)	710 (800)	710 (1000)
28 (125)	35 (160)	28 (125)	35 (160)	44 (200)	55 (250)	88 (400)	139 (630)	139 (630)	176 (800)	220 (1000)
55 (125)	70 (160)	55 (125)	70 (160)	88 (200)	110 (250)	176 (400)	277 (630)	277 (630)	352 (800)	440 (1000)
75 (125)	96 (125)	75 (125)	96 (160)	120 (200)	150 (250)	240 (400)	378 (630)	378 (630)	480 (800)	600 (1000)
55	70	60	75	100	125	250	315	315	350	400
6	10	8	10	10	12,5	18	20	20	25	40
15	25	20	25	25	31	44	50	50	63	84
8000	8000	8000	8000	8000	8000	5000	5000	5000	3000	3000
1000	1000	1000	1000	1000	1000	1000	1000	1000	500	500
-	-	2,7	2,7	2,7	4,6	4,7	5,1	-	9,5	10,6
-	-	2,8	2,8	2,8	4,8	4,9	5,6	-	10	11,2
-	-	2,4	2,4	2,4	4,4	4,5	-	8,4	8,4	9,8
-	-	2,5	2,5	2,5	4,6	4,7	-	8,9	8,9	10,4
-	-	2,7	2,7	2,7	4,6	4,7	4,8	-	9,6	10,4
-	-	3,1	3,1	3,1	5,4	5,5	5,8	-	11,6	12,5
1,3	2,1	-	-	-	-	-	-	-	-	-
1,4	2,5	-	-	-	-	-	-	-	-	-

Technical data IEC 947-3 EN 60947-3

ZNTF - ZTF

Rated insulation voltage	Ui	V (a.c.)
	Ui	V (d.c.)
Rated impulse withstand voltage	Uimp	kV
Rated thermal current for open switch ¹	Ith	A
Rated thermal current for enclosed switch ¹	Ithe	A
Number of poles		
Power dissipation for each pole		W
Rated operating current Ie		
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	690V	A
	1000V	A
Rated operating power		
AC-23A Switching of motor loads or other highly inductive loads	415V	Kw (A)
	500V	Kw (A)
	690V	Kw (A)
DC-23A Switching of highly inductive loads (e.g. series motors)	220V	Kw (A)
	440V	Kw (A)
	600V	Kw (A)
Reactive power ²	380V	kVAr
Rated short-circuit make capacity	Icm	kA
Mechanical life		
Electrical life		
Fuses	DIN 43620	
	NFC 62210	
	BS 88	
Weight		
3 poles	NFC 62210	Kg
	DIN 43620	Kg
	BS 88	Kg
4 poles	NFC 62210	Kg
	DIN 43620	Kg
	BS 88	Kg

Notes:

¹ = max Ta=40°C

² = due to harmonics and tolerance of the capacitors, the rated values have been reduced by 33%

ZNTF63 ZNTFB63	ZNTF80 ZNTFB80	ZNTF100 ZNTFB100	ZTF125 ZTFB125	ZTF160 ZTFB160	ZTF250 ZTFB250	ZTF400 ZTFB400	ZTF630 ZTFB630
1000	1000	1000	1000	1000	1000	1000	1000
600	600	600	1000	1000	1000	1000	1000
6	6	6	8	8	8	8	8
63	80	100	125	160	250	400	630
50	80	80	110	150	200	340	550
3-4	3-4	3-4	3-4	3-4	3-4	3-4	3-4
2,2	3,5	5,5	4,8	6,6	12	28	40
63	80	100	-	-	-	-	-
-	-	-	125	160	250	400	630
30 (63)	35 (80)	45 (100)	55 (125)	75 (160)	132 (250)	200 (400)	355 (630)
40 (63)	40 (80)	63 (100)	75 (125)	100 (160)	160 (250)	280 (400)	425 (630)
45 (63)	55 (80)	80 (100)	90 (125)	140 (160)	220 (250)	375 (400)	560 (630)
14(63)	18(80)	28(100)	28(125)	35(160)	55(250)	88(400)	139(630)
28(63)	35(80)	55(100)	55(125)	70(160)	110(250)	176(400)	277(630)
38(50)	48(80)	75(80)	75(125)	96(160)	150(250)	240(400)	378(630)
31	40	50	60	75	125	250	315
100	100	100	100	100	100	100	100
10000	10000	10000	8000	8000	8000	5000	5000
1500	1500	1500	1000	1000	1000	1000	1000
00-C	00	00	00-0	00-0	1-2	1-2	3
14x51	22x58	22x58	22x58	-	-	-	-
A2-A3	A2-A3	A2-A3	A4	B1-B2	B1-B3	B1-B4	C1-C2
0,8	1,4	1,4	2,7	-	-	-	-
0,85	1,4	1,4	2,7	2,7	5	5,2	9,5
0,8	1,4	1,4	2,8	2,8	5,2	5,4	10,9
0,9	1,5	1,5	2,8	-	-	-	-
0,95	1,5	1,5	2,8	2,8	5,2	5,4	10,2
0,9	1,5	1,5	3	3	5,4	5,6	11,6

Technical data IEC 947-3 EN 60947-3

ZCTSM - ZDTSM

Rated insulation voltage	Ui	V (a.c.)
	Ui	V (d.c.)
Rated impulse withstand voltage	Uimp	kV
Rated thermal current for open switch ¹	Ith	A
Number of poles		
Power dissipation for each pole		W
Rated operating current Ie		
AC-21A Switching resistive loads, including moderate overloads	690V	A
AC-22A Switching of mixed resistive and inductive loads, including moderate overloads	690V	A
Rated operating power		
AC-23A Switching of motor loads or other highly inductive loads	500V	Kw (A)
	690V	Kw (A)
DC-21A Switching of resistive loads, including moderate overloads	500V	Kw (A)
DC-22A Switching of mixed resistive and inductive loads, including moderate overloads	500V	Kw (A)
DC-23A Switching of highly inductive loads (e.g. series motors)	500V	Kw (A)
Reactive power ²	380V	kVAr
Rated short time withstand current (1s)	Icw	kA
Rated short-circuit make capacity (500V)	Icm	kA
Mechanical life	cycles	
Electrical life	cycles	
Operating time I-O-II or II-O-I		s
Weight		
3 poles		Kg
4 poles		Kg
6 poles		Kg
8 poles		Kg

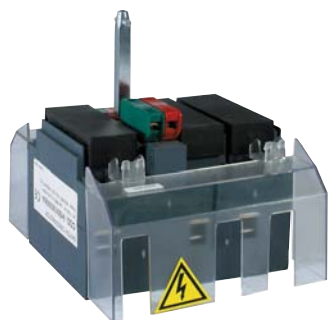
Notes:

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² = due to harmonics and tolerance of the capacitors, the rated values have been reduced by 33%

ZCTSM0125 ZDTSM0125	ZCTSM0160 ZDTSM0160	ZCTSM0200 ZDTSM0200	ZCTSM0250 ZDTSM0250	ZCTSM0400 ZDTSM0400	ZCTSM0630 ZDTSM0630	ZCTSM0800 ZDTSM0800	ZCTSM1000 ZDTSM1000	ZCTSM1250 ZDTSM1250	ZCTSM1600 ZDTSM1600
1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
600	600	600	600	600	600	600	600	600	600
8	8	8	8	8	8	12	12	12	12
125	160	200	250	400	630	800	1000	1250	1600
3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8	3-4-6-8
1,6	2,6	4	4,7	11	25	22,5	34	53	65
125	160	200	250	400	630	800	1000	1250	1600
125	160	200	250	400	630	800	1000	1250	1600
94 (125)	120(160)	150 (200)	150 (250)	300 (400)	475 (630)	600 (800)	750 (1000)	940 (1250)	1200 (1600)
65 (63)	83 (80)	100 (100)	130 (125)	165 (160)	200 (200)	270 (250)	325 (315)	415 (400)	520 (500)
62,5 (125)	80 (160)	100 (200)	125 (250)	200 (400)	315 (630)	400 (800)	500 (1000)	625 (1250)	800 (1600)
62,5 (125)	80 (160)	100 (200)	125 (250)	200 (400)	315 (630)	400 (800)	500 (1000)	625 (1250)	800 (1600)
50 (100)	62,5 (125)	75 (150)	100 (200)	125 (250)	200 (400)	315 (630)	400 (800)	500 (1000)	500 (1000)
55	70	80	100	150	250	300	375	450	550
8	10	10	12,5	15	16	30	31,5	35	35
14	20	20	25	30	32	63	66	73,5	73,5
8000	8000	8000	8000	5000	5000	3000	3000	3000	3000
1000	1000	1000	1000	1000	1000	500	500	500	500
1,5	1,5	1,5	2,5	2,5	2,5	2,5	2,5	2,5	2,5
4	4	4	7	7	7,5	11	15	19	19
4,5	4,5	4,5	7,8	7,8	8,3	17	18,5	20,5	20,5
8,1	8,1	8,1	14,2	14,2	15,2	22,4	30,4	38,4	38,4
9,1	9,1	9,1	15,8	15,8	16,8	34,4	37,4	41,4	41,4

Switch-disconnectors

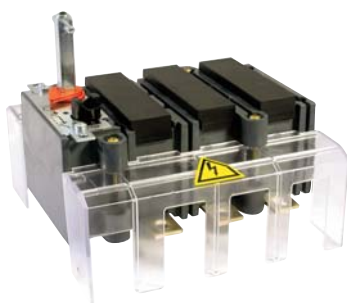


ZNTS

125 ÷ 160A / 3-4 poles
Base mounting
ZNTSB with bush terminals
690V AC 23A IEC 60947-3
600V DC 23A IEC 60947-3
Rated insulation voltage 1000 V



Phase
L1, L2, L3, L4
contacts in series
4 breaks per phase



ZTS

125 ÷ 1000A / 3-4-6-8 poles
Base mounting
With bar covers or with visible contact status
690V AC 23A IEC 60947-3
600V DC 23A IEC 60947-3
Rated insulation voltage 1000 V



Phase
L1, L2, L3, L4
contacts in series
4 breaks per phase



ZNTF

63 ÷ 100A with fuses / 3-4 poles
Base mounting
ZNTFB with bush terminals
690V AC 23A IEC 60947-3
600V DC 23A IEC 60947-3
Rated insulation voltage 1000 V



Phase
L1, L2, L3, L4
contacts in series
4 breaks per phase

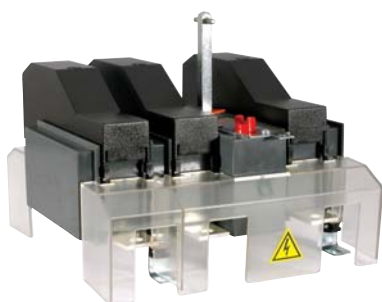


ZTF

125 ÷ 630A with fuse holders
3-4 poles
Base mounting
690V AC 23A IEC 60947-3
600V DC 23A IEC 60947-3
Rated insulation voltage 1000 V



Phase
L1, L2, L3, L4
contacts in series
4 breaks per phase

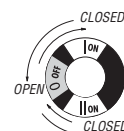


ZCTSM

Change-over switch
250 ÷ 1600A / 3-4-6-8 poles
Base mounting
500V AC 23A - 690 AC 22A IEC 60947-3
600V DC 22A IEC 60947-3
Rated insulation voltage 1000



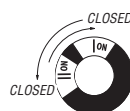
Phase
L1, L2, L3, L4
Single contact
4 breaks per phase



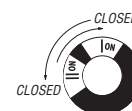
maneuver:
II-0-I



ZDTSM
Change-over
without "OFF"

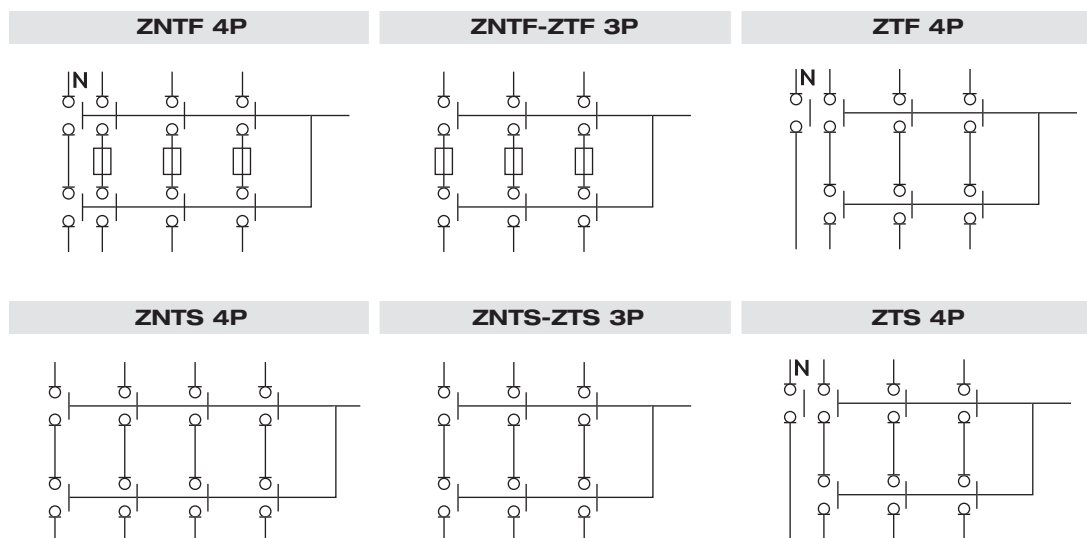


maneuver II-I
overlapping
(making before breaking)



maneuver II-I
(breaking before making)

Circuit diagram

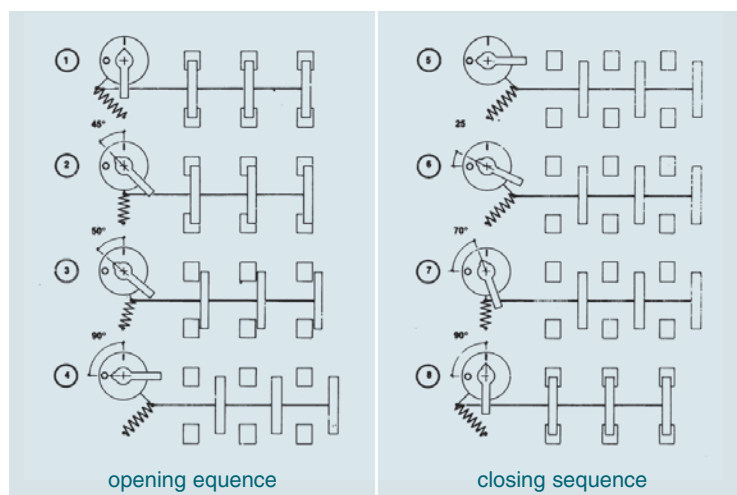


Operating, storage, mounting and transport conditions

- storage and transport room temperature $-25^{\circ}\text{C} + 55^{\circ}\text{C}$
- operating room temperature $-20^{\circ}\text{C} + 45^{\circ}\text{C}$
- for higher temperatures (T_a)
apply the following downgrading formula:
- max relative humidity 95%
- nominal frequency 50-60 Hz
- altitude max 2000 m
- mounting in enclosure
- in case of use at full load and without adequate ventilation, ensure a volume of about 5 times the volume of the switch CEI EN60947 (eight-hour uninterrupted; intermittent 60% class 30; temporary; periodic). For other operating conditions please contact our technical department.

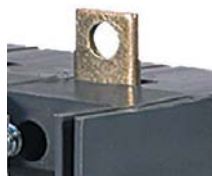
$$I_{The} = K I_{Th}$$

$$K = \frac{1 - t_a - 45}{100}$$



Pictures represent the positions of the indicator respect to the position of the moving elements. During the break operation, the spring reaches the dead point after a rotation of 45° , while during the make operation dead point is reached after 70° . The actuator always respect the real position of the contacts. This type of control is called "positive".

ZNTS - Lug cable terminal



Part num.	Type	Description	Standard handle	Pack
VC522100	ZNTS1253	Switch-disconnector 125A 3 poles with bar covers	ZXM8	1
VC523900	ZNTS1254	Switch-disconnector 125A 4 poles with bar covers	ZXM8	1
VC524700	ZNTS1603	Switch-disconnector 160A 3 poles with bar covers	ZXM8	1
VC525400	ZNTS1604	Switch-disconnector 160A 4 poles with bar covers	ZXM8	1

ZNTS - Bush terminal



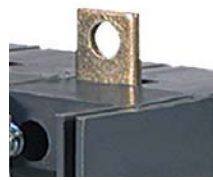
Part num.	Type	Description	Standard handle	Pack
VC526200	ZNTSB1253	Switch-disconnector 125A 3 poles with bar covers	ZXM8	1
VC527000	ZNTSB1254	Switch-disconnector 125A 4 poles with bar covers	ZXM8	1

ZTS - Lug cable terminal with link bar covers



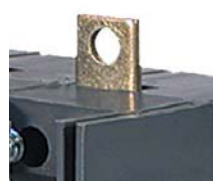
Part num.	Type	Description	Standard handle	Pack
VC410900	ZTS01253B	Switch-disconnector 125A 3 poles with bar covers	ZXM1201	1
VC411700	ZTS01254B	Switch-disconnector 125A 4 poles with bar covers	ZXM1201	1
VC412500	ZTS01603B	Switch-disconnector 160A 3 poles with bar covers	ZXM1201	1
VC413300	ZTS01604B	Switch-disconnector 160A 4 poles with bar covers	ZXM1201	1
ZTS02003B	ZTS02003B	Switch-disconnector 200A 3 poles with bar covers	ZXM1201	1
ZTS02004B	ZTS02004B	Switch-disconnector 200A 4 poles with bar covers	ZXM1201	1
VC414100	ZTS02503B	Switch-disconnector 250A 3 poles with bar covers	ZXM1201	1
VC415800	ZTS02504B	Switch-disconnector 250A 4 poles with bar covers	ZXM1201	1
VC416600	ZTS04003B	Switch-disconnector 400A 3 poles with bar covers	ZXM1201	1
VC417400	ZTS04004B	Switch-disconnector 400A 4 poles with bar covers	ZXM1201	1
VC418200	ZTS06303B	Switch-disconnector 630A 3 poles with bar covers	ZXM1201	1
VC419000	ZTS06304B	Switch-disconnector 630A 4 poles with bar covers	ZXM1201	1
VC420800	ZTS08003B	Switch-disconnector 800A 3 poles with bar covers	ZXM1201	1
VC421600	ZTS08004B	Switch-disconnector 800A 4 poles with bar covers	ZXM1201	1
VC422400	ZTS10003B	Switch-disconnector 1000A 3 poles with bar covers	ZXM1301	1
VC423200	ZTS10004B	Switch-disconnector 1000A 4 poles with bar covers	ZXM1301	1

ZTS - Lug cable terminal with visible isolation




Part num.	Type	Description	Standard handle	Pack
VC431500	ZTS01253	Switch-disconnector 125A 3 poles with visible isolation	ZXM1201	1
VC432300	ZTS01254	Switch-disconnector 125A 4 poles with visible isolation	ZXM1201	1
VC433100	ZTS01603	Switch-disconnector 160A 3 poles with visible isolation	ZXM1201	1
VC434900	ZTS01604	Switch-disconnector 160A 4 poles with visible isolation	ZXM1201	1
ZTS02003	ZTS02003	Switch-disconnector 200A 3 poles with visible isolation	ZXM1201	1
ZTS02004	ZTS02004	Switch-disconnector 200A 4 poles with visible isolation	ZXM1201	1
VC435600	ZTS02503	Switch-disconnector 250A 3 poles with visible isolation	ZXM1201	1
VC436400	ZTS02504	Switch-disconnector 250A 4 poles with visible isolation	ZXM1201	1
VC437200	ZTS04003	Switch-disconnector 400A 3 poles with visible isolation	ZXM1201	1
VC438000	ZTS04004	Switch-disconnector 400A 4 poles with visible isolation	ZXM1201	1
VC439800	ZTS06303	Switch-disconnector 630A 3 poles with visible isolation	ZXM1201	1
VC440600	ZTS06304	Switch-disconnector 630A 4 poles with visible isolation	ZXM1201	1
VC441400	ZTS08003	Switch-disconnector 800A 3 poles with visible isolation	ZXM1301	1
VC442200	ZTS08004	Switch-disconnector 800A 4 poles with visible isolation	ZXM1301	1
VC443000	ZTS10003	Switch-disconnector 1000A 3 poles with visible isolation	ZXM1301	1
VC444800	ZTS10004	Switch-disconnector 1000A 4 poles with visible isolation	ZXM1301	1

ZTS - Lug cable terminal 6 and 8 poles



Part num.	Type	Description	Standard handle	Pack
VC452100	ZTS01256	Switch-disconnector 125A 6 poles	ZXM1201	1
VC453900	ZTS01258	Switch-disconnector 125A 8 poles	ZXM1201	1
VC454700	ZTS01606	Switch-disconnector 160A 6 poles	ZXM1201	1
VC455400	ZTS01608	Switch-disconnector 160A 8 poles	ZXM1201	1
VC456200	ZTS02506	Switch-disconnector 250A 6 poles	ZXM1201	1
VC457000	ZTS02508	Switch-disconnector 250A 8 poles	ZXM1201	1
VC458800	ZTS04006	Switch-disconnector 400A 6 poles	ZXM1201	1
VC459600	ZTS04008	Switch-disconnector 400A 8 poles	ZXM1201	1
VC460400	ZTS06306	Switch-disconnector 630A 6 poles	ZXM1201	1
VC461200	ZTS06308	Switch-disconnector 630A 8 poles	ZXM1201	1
VC462000	ZTS08006	Switch-disconnector 800A 6 poles	ZXM1301	1
VC463800	ZTS08008	Switch-disconnector 800A 8 poles	ZXM1301	1
VC464600	ZTS10006	Switch-disconnector 1000A 6 poles	ZXM1301	1
VC465300	ZTS10008	Switch-disconnector 1000A 8 poles	ZXM1301	1

ZNTF - Lug cable terminal



Part num.	Type	Description	Standard handle	Pack
VC307700	ZNTF06330C	Switch-disconnector 63A 3 poles with fuse holders type DIN/NH00C	ZXM6	1
VC308500	ZNTF06340C	Switch-disconnector 63A 4 poles with fuse holders type DIN/NH00C	ZXM6	1
VC309300	ZNTF080302	Switch-disconnector 80A 3 poles with fuse holders type DIN/NH00	ZXM8	1
VC310100	ZNTF080402	Switch-disconnector 80A 4 poles with fuse holders type DIN/NH00	ZXM8	1
VC311900	ZNTF100302	Switch-disconnector 100A 3 poles with fuse holders type DIN/NH00	ZXM8	1
VC312700	ZNTF100402	Switch-disconnector 100A 4 poles with fuse holders type DIN/NH00	ZXM8	1

fuses not included

fuses not included

ZNTF - Bush terminal

	Part num.	Type	Description	Standard handle	Pack
	VC315000	ZNTFB06330C	Switch-disconnector 63A 3 poles with fuse holders type DIN/NH00C	ZXM6	1
	VC316800	ZNTFB06340C	Switch-disconnector 63A 4 poles with fuse holders type DIN/NH00C	ZXM6	1
	VC317600	ZNTFB080302	Switch-disconnector 80A 3 poles with fuse holders type DIN/NH00	ZXM8	1
	VC318400	ZNTFB080402	Switch-disconnector 80A 4 poles with fuse holders type DIN/NH00	ZXM8	1
	VC319200	ZNTFB100302	Switch-disconnector 100A 3 poles with fuse holders type DIN/NH00	ZXM8	1
	VC320000	ZNTFB100402	Switch-disconnector 100A 4 poles with fuse holders type DIN/NH00	ZXM8	1
fuses not included					

fuses not included

ZTF - Lug cable terminal

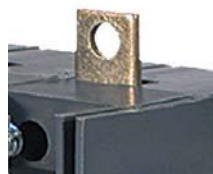


Part num.	Type	Description	Standard handle	Pack
VC353100	ZTF0125302	Switch-disconnector 125A 3 poles with fuse holders type DIN/NH00	ZXM1201	1
VC354900	ZTF0125402	Switch-disconnector 125A 4 poles with fuse holders type DIN/NH00	ZXM1201	1
VC355600	ZTF0160302	Switch-disconnector 160A 3 poles with fuse holders type DIN/NH00	ZXM1201	1
VC356400	ZTF0160402	Switch-disconnector 160A 4 poles with fuse holders type DIN/NH00	ZXM1201	1
VC365500	ZTF0160301	Switch-disconnector 160A 3 poles with fuse holders type DIN/NH0	ZXM1201	1
VC366300	ZTF0160401	Switch-disconnector 160A 4 poles with fuse holders type DIN/NH0	ZXM1201	1
VC357200	ZTF0250303	Switch-disconnector 250A 3 poles with fuse holders type DIN/NH1	ZXM1201	1
VC358000	ZTF0250403	Switch-disconnector 250A 4 poles with fuse holders type DIN/NH1	ZXM1201	1
VC359800	ZTF0400304	Switch-disconnector 400A 3 poles with fuse holders type DIN/NH2	ZXM1201	1
VC360600	ZTF0400404	Switch-disconnector 400A 4 poles with fuse holders type DIN/NH2	ZXM1201	1
VC361400	ZTF0630305	Switch-disconnector 630A 3 poles with fuse holders type DIN/NH3	ZXM1301	1
VC362200	ZTF0630405	Switch-disconnector 630A 4 poles with fuse holders type DIN/NH3	ZXM1301	1

fuses not included

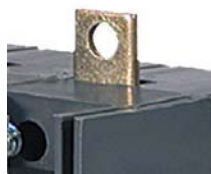
fuses not included

ZCTSM - Lug cable terminal



Part num.	Type	Description	Standard handle	Pack
VC540300	ZCTSM02503	change-over switch 250A 3 poles	ZXM1203	1
VC541100	ZCTSM02504	change-over switch 250A 4 poles	ZXM1203	1
VC530400	ZCTSM02506	change-over switch 250A 6 poles	on request	1
VC531200	ZCTSM02508	change-over switch 250A 8 poles	on request	1
VC542900	ZCTSM04003	change-over switch 400A 3 poles	ZXM1203	1
VC543700	ZCTSM04004	change-over switch 400A 4 poles	ZXM1203	1
VC532000	ZCTSM04006	change-over switch 400A 6 poles	on request	1
VC533800	ZCTSM04008	change-over switch 400A 8 poles	on request	1
VC544500	ZCTSM06303	change-over switch 630A 3 poles	ZXM1303	1
VC545200	ZCTSM06304	change-over switch 630A 4 poles	ZXM1303	1
VD509700	ZCTSM06306	change-over switch 630A 6 poles	on request	1
VD510500	ZCTSM06308	change-over switch 630A 8 poles	on request	1
VC546000	ZCTSM08003	change-over switch 800A 3 poles	ZXM1303	1
VC547800	ZCTSM08004	change-over switch 800A 4 poles	ZXM1303	1
VD511300	ZCTSM08006	change-over switch 800A 6 poles	on request	1
VD512100	ZCTSM08008	change-over switch 800A 8 poles	on request	1
VC548600	ZCTSM10003	change-over switch 1000A 3 poles	ZXM1303	1
VC549400	ZCTSM10004	change-over switch 1000A 4 poles	ZXM1303	1
VD513900	ZCTSM10006	change-over switch 1000A 6 poles	on request	1
VD514700	ZCTSM10008	change-over switch 1000A 8 poles	on request	1
VC550200	ZCTSM12503	change-over switch 1250A 3 poles	ZXM1303	1
VC551000	ZCTSM12504	change-over switch 1250A 4 poles	ZXM1303	1
VD515400	ZCTSM12506	change-over switch 1250A 6 poles	on request	1
VD516200	ZCTSM12508	change-over switch 1250A 8 poles	on request	1
ZCTSM16003	ZCTSM16003	change-over switch 1600A 3 poles	ZXM1303	1
ZCTSM16004	ZCTSM16004	change-over switch 1600A 4 poles	ZXM1303	1
ZCTSM16006	ZCTSM16006	change-over switch 1600A 6 poles	on request	1
ZCTSM16008	ZCTSM16008	change-over switch 1600A 8 poles	on request	1

ZDTSM - Lug cable terminal



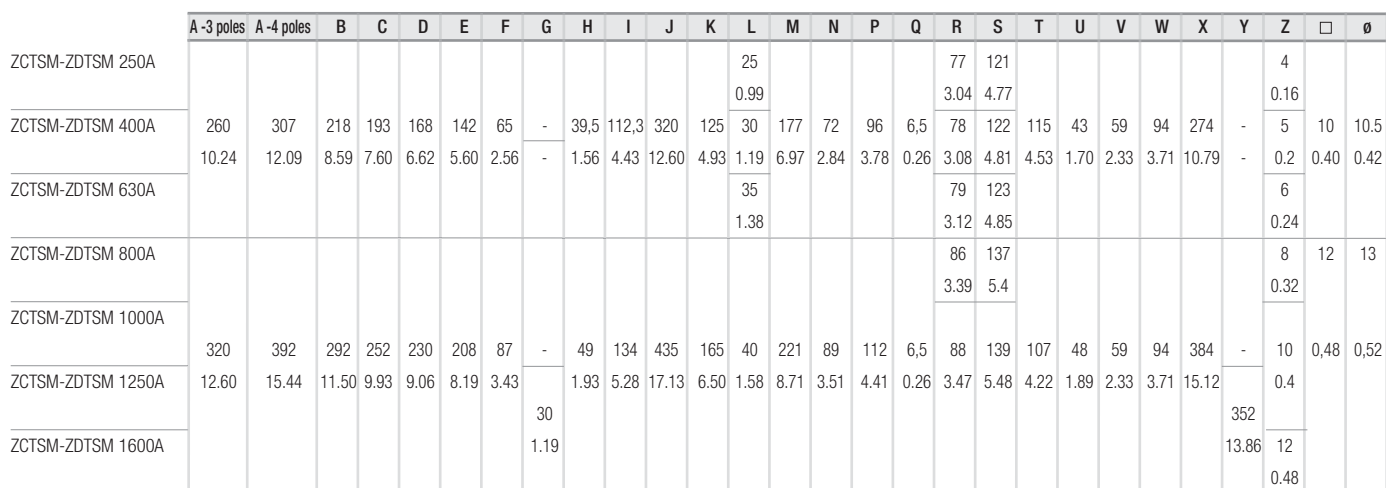
Part num.	Type	Description	Standard handle	Pack
VD555000	ZDTSM02503	Change-over switch without "OFF" 250A 3 poles	ZXM1203	1
VD556800	ZDTSM02504	Change-over switch without "OFF" 250A 4 poles	ZXM1203	1
VD557600	ZDTSM02506	Change-over switch without "OFF" 250A 6 poles	on request ZXM1203	1
VD558400	ZDTSM02508	Change-over switch without "OFF" 250A 8 poles	on request ZXM1203	1
VD559200	ZDTSM04003	Change-over switch without "OFF" 400A 3 poles	ZXM1203	1
VD560000	ZDTSM04004	Change-over switch without "OFF" 400A 4 poles	ZXM1203	1
VD561800	ZDTSM04006	Change-over switch without "OFF" 400A 6 poles	on request ZXM1203	1
VD562600	ZDTSM04008	Change-over switch without "OFF" 400A 8 poles	on request ZXM1203	1
VD563400	ZDTSM06303	Change-over switch without "OFF" 630A 3 poles	ZXM1303	1
VD564200	ZDTSM06304	Change-over switch without "OFF" 630A 4 poles	ZXM1303	1
VD565900	ZDTSM06306	Change-over switch without "OFF" 630A 6 poles	on request ZXM1303	1
VD566700	ZDTSM06308	Change-over switch without "OFF" 630A 8 poles	on request ZXM1303	1
VD567500	ZDTSM08003	Change-over switch without "OFF" 800A 3 poles	ZXM1303	1
VD568300	ZDTSM08004	Change-over switch without "OFF" 800A 4 poles	ZXM1303	1
VD569100	ZDTSM08006	Change-over switch without "OFF" 800A 6 poles	on request ZXM1303	1
VD570900	ZDTSM08008	Change-over switch without "OFF" 800A 8 poles	on request ZXM1303	1
VD571700	ZDTSM10003	Change-over switch without "OFF" 1000A 3 poles	ZXM1303	1
VD572500	ZDTSM10004	Change-over switch without "OFF" 1000A 4 poles	ZXM1303	1
VD573300	ZDTSM10006	Change-over switch without "OFF" 1000A 6 poles	on request ZXM1303	1
VD574100	ZDTSM10008	Change-over switch without "OFF" 1000A 8 poles	on request ZXM1303	1
VD575800	ZDTSM12503	Change-over switch without "OFF" 1250A 3 poles	ZXM1303	1
VD576600	ZDTSM12504	Change-over switch without "OFF" 1250A 4 poles	ZXM1303	1
VD577400	ZDTSM12506	Change-over switch without "OFF" 1250A 6 poles	on request ZXM1303	1
VD578200	ZDTSM12508	Change-over switch without "OFF" 1250A 8 poles	on request ZXM1303	1
ZDTSM16003	ZDTSM16003	Change-over switch without "OFF" 1600A 3 poles	ZXM1303	1
ZDTSM16004	ZDTSM16004	Change-over switch without "OFF" 1600A 4 poles	ZXM1303	1
ZCTSM16006	ZCTSM16006	Change-over switch without "OFF" 1600A 6 poles	on request ZXM1303	1
ZCTSM16008	ZCTSM16008	Change-over switch without "OFF" 1600A 8 poles	on request ZXM1303	1

■ Accessories

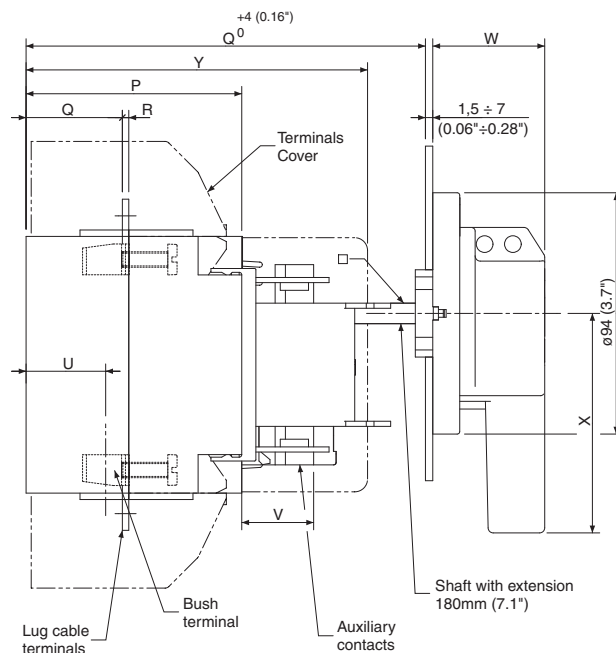
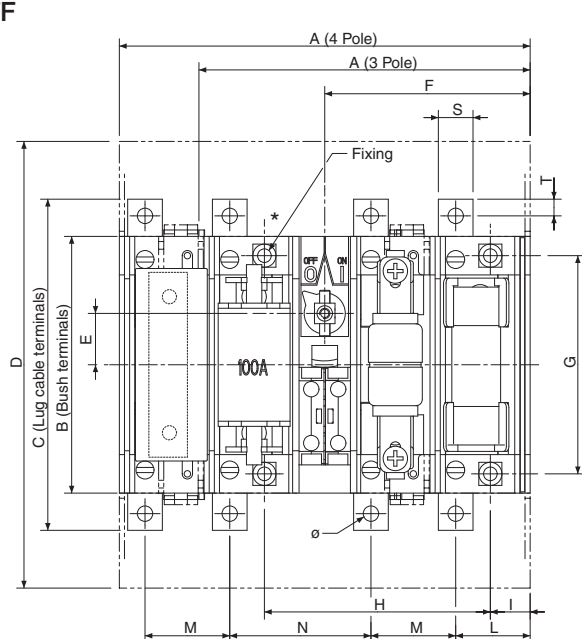
Part num.	Type	Description	Pack
VC714400	ZXCSD3	fuse protection shield DIN 3 poles for ZNTF/ZNTFB 32-63A	1
VC715100	ZXCSD4	fuse protection shield DIN 4 poles for ZNTF/ZNTFB 32-63A	1
VC718500	ZXCSD31	fuse protection shield DIN 3 poles for ZNTF/ZNTFB 80-100A	1
VD689700	ZXCSD41	fuse protection shield DIN 4 poles for ZNTF/ZNTFB 80-100A	1
VC814200	ZXC03	fuse protection shield 3 poles or 4 poles for ZTF 125-160A	1
VC815900	ZXC33	fuse protection shield 3 poles or 4 poles for ZTF 250-400A	1
VC816700	ZXC333	fuse protection shield 3 poles or 4 poles for ZTF 630-800A	1
VC820900	ZXC05	protection shield 3 poles or 4 poles for ZTS 125-160A	1
VC822500	ZXC55	protection shield 3 poles or 4 poles for ZTS 250-400A	1
VC824100	ZXC555	protection shield 3 poles or 4 poles for ZTS 630-800A	1
VC826600	ZXC06	protection shield for main contacts and terminal covers for ZTS 125-160A 6 poles	1
VC829000	ZXC06NL	protection shield for main contacts and terminal covers for ZTS 125-160A 8 poles	1
VC827400	ZXC66	protection shield for main contacts and terminal covers for ZTS 250-630A 6 poles	1
VC830800	ZXC66NL	protection shield for main contacts and terminal covers for ZTS 250-630A 8 poles	1
VC828200	ZXC666	protection shield for main contacts and terminal covers for ZTS 800-1000A 6 poles	1
VC831600	ZXC666NL	protection shield for main contacts and terminal covers for ZTS 800-1000A 8 poles	1
VC719300	ZXCS03	upper terminal cover 3 poles for ZNTF/ZNTS 63A	1
VC720100	ZXCS04	upper terminal cover 4 poles for ZNTF/ZNTS 63A	1
VC721900	ZXCI03	lower terminal cover 3 poles for ZNTF/ZNTS 63A	1
VC722700	ZXCI04	lower terminal cover 4 poles for ZNTF/ZNTS 63A	1
VC723500	ZXCS31	upper terminal cover 3 poles for ZNTF 80÷100A / ZNTS 125A	1
VD692100	ZXCI31	lower terminal cover 3 poles for ZNTF 80÷100A / ZNTS 125A	1
VC724300	ZXCS41	upper terminal cover 4 poles for ZNTF 80÷100A / ZNTS 125A	1
VD693900	ZXCI41	lower terminal cover 4 poles for ZNTF 80÷100A / ZNTS 125A	1
VD696200	ZXCI32	lower terminal cover 3 poles for ZNTS/ZNTSB 160A	1
VD697000	ZXCI42	lower terminal cover 4 poles for ZNTS/ZNTSB 160A	1
VD694700	ZXCS32	upper terminal cover 3 poles for ZNTS/ZNTSB 160A	1
VD695400	ZXCS42	upper terminal cover 4 poles for ZNTS/ZNTSB 160A	1
VC802700	ZXCS103	upper terminal cover 3 poles and 4 poles add. for ZTF 125-160A - ZTS/ZTSB 125-200A	1
VC803500	ZXCI103	lower terminal cover 3 poles and 4 poles add. for ZTF 125-160A - ZTS/ZTSB 125-200A	1
VC804300	ZXCS123	upper terminal cover 3 poles and 4 poles add. for ZTF 250-400A / ZTS...B 250-630A / ZTS 250-400A	1
VC805000	ZXCI123	lower terminal cover 3 poles and 4 poles add. for ZTF 250-400A / ZTS...B 250-630A / ZTS 250-400A	1
VC806800	ZXCS203	upper terminal cover 3 poles and 4 poles add. for ZTF 630-800A / ZTS...B 800-1000A / ZTS 630-1000A	1
VC807600	ZXCI203	lower terminal cover 3 poles and 4 poles add. for ZTF 630-800A / ZTS...B 800-1000A / ZTS 630-1000A	1
VC844900	ZXCK4	terminal cover for single pole for ZCTSM/ZDTSM 250-630A	1
VC845600	ZXCK5	terminal cover for single pole for ZCTSM/ZDTSM 800 ÷ 1000A	1
VD718400	ZXCS09	upper terminal cover 3 poles for ZCTSM/ZDTSM 250 ÷ 630A	1
VD719200	ZXCI09	lower terminal cover 3 poles for ZCTSM/ZDTSM 250 ÷ 630A	1
VD720000	ZXCS09NL	upper terminal cover 4 poles for ZCTSM/ZDTSM 250 ÷ 630A	1
VD721800	ZXCI09NL	lower terminal cover 4 poles for ZCTSM/ZDTSM 250 ÷ 630A	1

Part num.	Type	Description	Pack
VD722600	ZXCS99	upper terminal cover 3 poles for ZCTSM/ZDTSM 800 ÷ 1600A	1
VD723400	ZXCI99	lower terminal cover 3 poles for ZCTSM/ZDTSM 800 ÷ 1600A	1
VD724200	ZXCS99NL	upper terminal cover 4 poles for ZCTSM/ZDTSM 800 ÷ 1600A	1
VD725900	ZXCI99NL	lower terminal cover 4 poles for ZCTSM/ZDTSM 800 ÷ 1600A	1
VC727600	ZXT6	standard shaft extension L=180mm Q6 for ZNTF/ZNTS 63A	1
VD699600	ZXT6/1	shaft extension L=280mm Q6 for ZNTF/ZNTS 63A	1
VC728400	ZXT8	standard shaft extension L=180mm Q8 for ZNTF/ZNTS 80-160A	1
VD700200	ZXT8/1	shaft extension L=280mm Q8 for ZNTF/ZNTS 80-160A	1
VC794600	ZXT10	standard shaft extension L=180mm Q10 for ZNTF/ZTS 125-200A / ZCTSM/ZDTSM 250-630A	1
VC795300	ZXT10/1	standard shaft extension L=280mm Q10 for ZNTF/ZTS 125-200A / ZCTSM/ZDTSM 250-630A	1
VC797900	ZXT12	standard shaft extension L=180mm Q12 for ZTF 250-800A / ZTS 250-1000A / ZCTSM/ZDTSM 800-1600A	1
VC798700	ZXT12/1	standard shaft extension L=280mm Q12 for ZTF 250-800A / ZTS 250-1000A / ZCTSM/ZDTSM 800-1600A	1
VC730000	ZXM6	standard short black handle 0-1 for ZNTF/ZNTS 63A	1
VC732600	ZXM6DS	short black handle 0-I with no interlock in "on" position for ZNTF / ZNTS 63A	1
VC741700	ZXM6RDS	long red handle 0-I with no interlock in "on" position for ZNTF/ZNTS 63A	1
VC733400	ZXM8	standard long black handle 0-1 for ZNTF/ZNTS 80-160A	1
VC735900	ZXM8DS	long black handle 0-1 with no interlock in "on" position for ZNTF/ZNTS 80-160A	1
VC739100	ZXM6R	short red handle 0-1 for ZNTF/ZNTS 63A	1
VC742500	ZXM8R	long red handle 0-1 for ZNTF/ZNTS 80-160A	1
VC744100	ZXM8RDS	long red handle 0-1 with no interlock in "on" position for ZNTF/ZNTS 80-160A	1
VC756500	ZXM1201	standard short black handle 0-1 for ZTF125-400A / ZTS 125-630A	1
VC757300	ZXM12C01	short black handle 0-1 with key unlock for ZTF 125-400A / ZTS 125-630A	1
VC758100	ZXM12DS01	short black handle 0-1 with no interlock in "on" position for ZTF 125-400A / ZTS 125-630A	1
VC762300	ZXM1203	standard short black handle II-0-I for ZCTSM/ZDTSM 250-630A	1
VC768000	ZXM12R01	short red handle 0-1 for ZTF125-400A / ZTS 125-630A	1
VC770600	ZXM12RDS01	short red handle 0-1 with no interlock in "on" position for ZTF 125-400A / ZTS 125-630A	1
VC763100	ZXM12C03	short black handle II-0-I with key unlock for ZCTSM/ZDTSM 250-630A	1
VC764900	ZXM12DS03	short black handle II-0-I with no interlock in "on" position for ZCTSM/ZDTSM 250-630A	1
VC777100	ZXM1303	standard long black handle II-0-I for ZCTSM/ZDTSM 800-1600A	1
VC778900	ZXM13C03	short black handle II-0-I with key unlock for ZCTSM/ZDTSM 800-1600A	1
VC771400	ZXM1301	standard long black handle 0-I for ZTF 630A / ZTS 800-1000A	1
VC772200	ZXM13C01	short black handle 0-I with key unlock for ZTF 630A / ZTS 800-1000A	1
VC773000	ZXM13DS01	short black handle 0-I with no interlock in "ON" for ZTF 630A / ZTS 800-1000A	1
VC779700	ZXM13DS03	long black handle II-0-I with no interlock in "ON" for ZCTSM/ZDTSM 800-1600A	1
VC783900	ZXM13R01	short red handle 0-I for ZTF 630-800A / ZTS 800-1600A	1
VC785400	ZXM13RDS01	long red handle 0-I with no interlock in "on" position for ZTF 630-800A / ZTS 800-1000A	1
VC792000	ZXG12	gasket for handle IP55 for ZTF/ZTS/ZCTSM/ZDTSM	1
VC748200	ZXG8	gasket for handle IP65 for ZNTF/ZNTFB/ZNTS/ZNTSB	1
VC846400	ZXCAU1	auxiliary contact 1NO for ZTF/ZTS/ZCTSM/ZDTSM	1
VC847200	ZXCAU2	auxiliary contact 1NC for ZTF/ZTS/ZCTSM/ZDTSM	1
VC848000	ZXCAU3	auxiliary contact 1NO+1NC for ZTF/ZTS/ZCTSM/ZDTSM	1
VC849800	ZXCAU4	auxiliary contact 1NO+1NO for ZTF/ZTS/ZCTSM/ZDTSM	1
VC851400	ZXCAU6	auxiliary contact 2NO+2NC for ZTF/ZTS/ZCTSM/ZDTSM	1
VC852200	ZXCAU7	auxiliary contact 2NO+2NO for ZTF/ZTS/ZCTSM/ZDTSM	1
VC853000	ZXCAU8	auxiliary contact 2NC+2NC for ZTF/ZTS/ZCTSM/ZDTSM	1

ZCTSM-ZDTSM

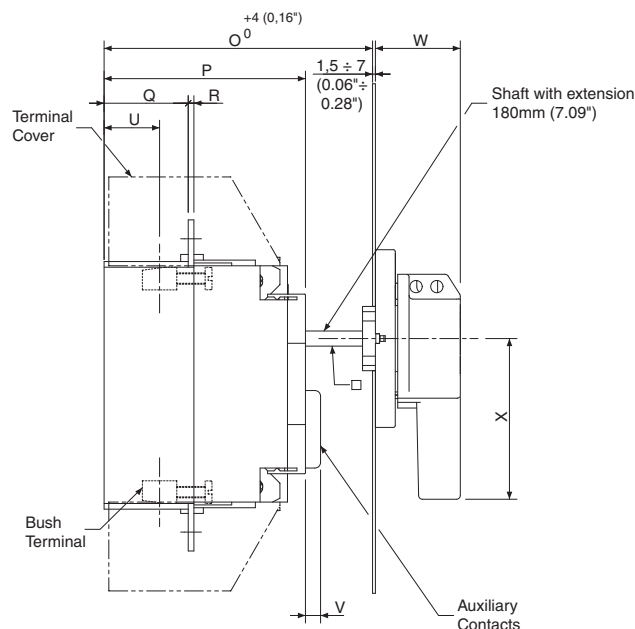
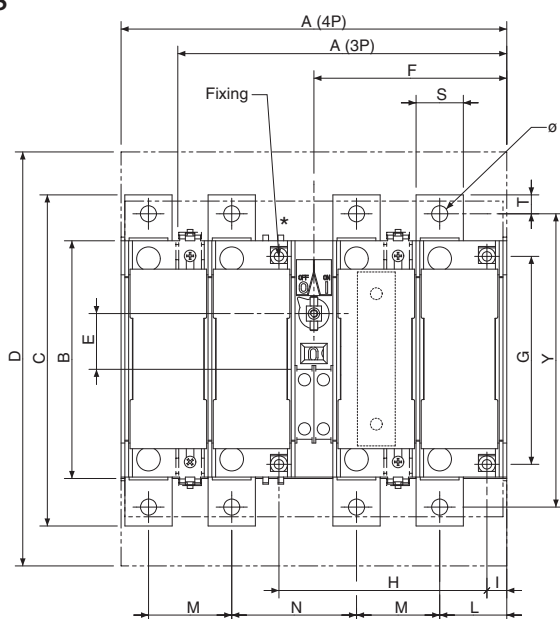


ZNTF



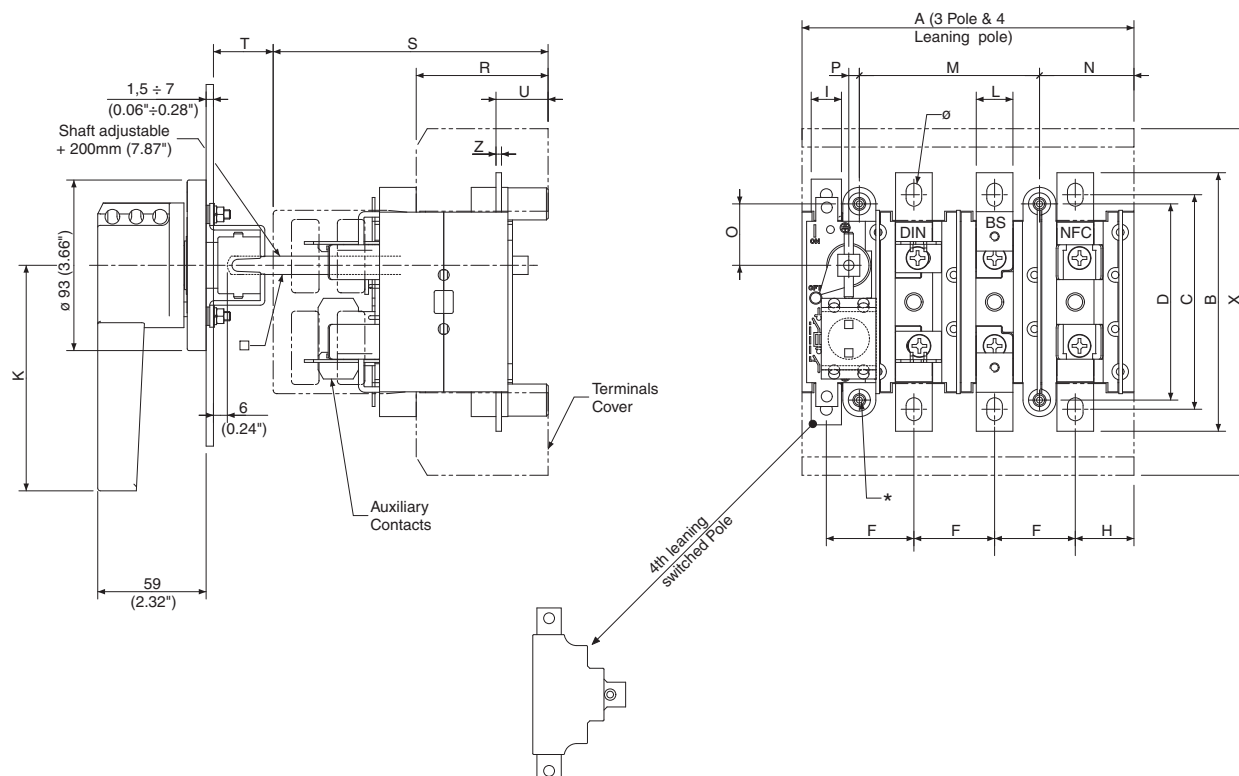
	A-3 poles	A-4 poles	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U	V	W	X	*	ø	□
ZNTF 63A	100 3.94	126 4.97	86 3.39	106 4.18	142 5.60	18 0.71	63 2.49	74,5 2.94	71,5 2.82	8 0.32	19 0.75	25 0.99	46,5 1.84	135 5.32	64 2.52	28 1.11	2 0.08	11 0.44	5 0.20	26 1.03	18 0.71	44 1.74	60 2.37	4,5 0.18	5 0.20	6 0.24
ZNTF 80A	129	160	100	129	174	20	80	85	88	15,5	29	33	54	158	88	37,5	2,5	14	7	29,5	18	44	85	5,5	6	8
ZNTF 100A	5.08	6.30	3.94	5.08	6.86	0.79	3.15	3.35	3.47	0.62	1.15	1.30	2.13	6.23	3.47	1.48	0.10	0.56	0.28	1.17	0.71	1.74	3.35	0.22	0.24	0.32

ZNTS



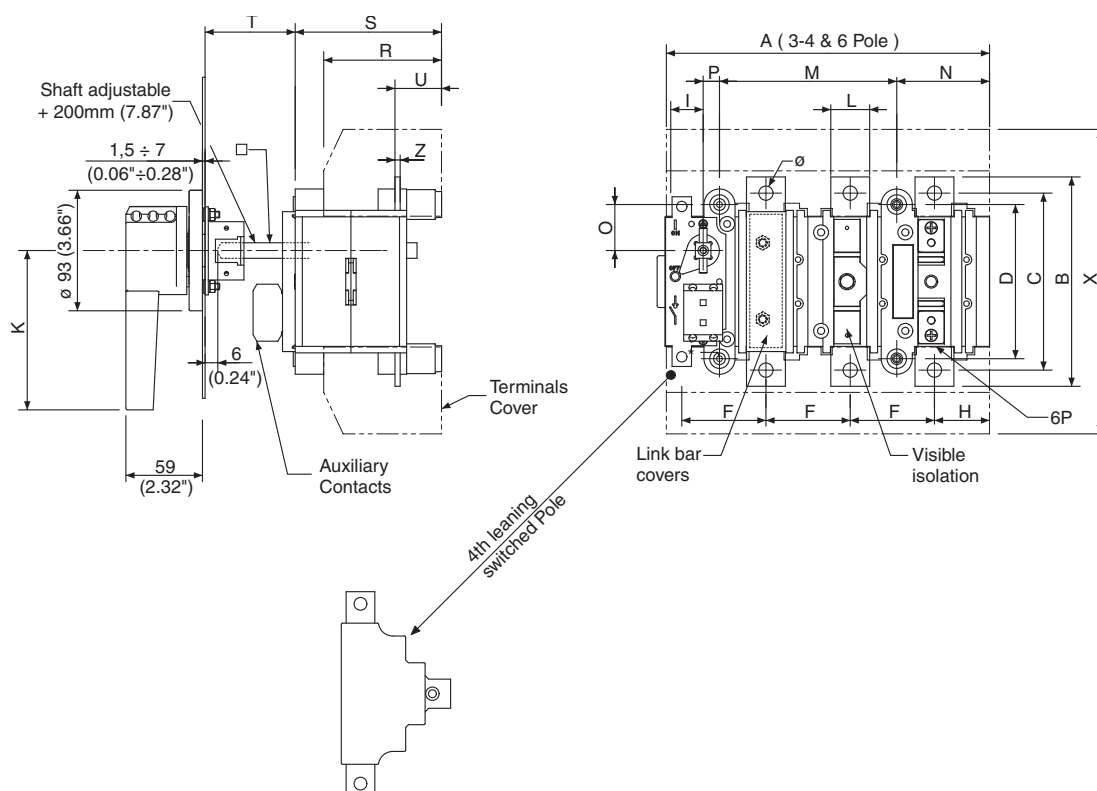
	A-3 poles	A-4 poles	B	C	D	E	F	G	H	I	L	M	N	O	P	Q	R	S	T	U	V	W	X	*	ø	□
ZNTS 125A	129 5.08	160 6.30	100 3.94	129 5.08	174 6.86	20 0.79	80 3.15	85 3.35	88 3.47	15,5 0.62	29 1.15	33 1.30	54 2.13	129 5.08	88 3.47	37,5 1.48	2,5 0.10	14 0.56	7 0.28	29,5 1.17	18 0.71	44 1.74	85 3.35	5,5 0.22	6 0.24	8 0.32
ZNTS 160A	174 6.86	204 8.04	125 4.93	175 6.89	219 8.63	24 0.95	102 4.02	110 4.34	110 4.34	12 0.48	35 1.38	44 1.74	66 2.60	130 5.12	105 4.14	44,5 1.76	3 0.12	25 0.99	10 0.40	37 1.46	18 0.71	44 1.74	85 3.35	5,5 0.22	8,5 0.34	8 0.32

ZTF



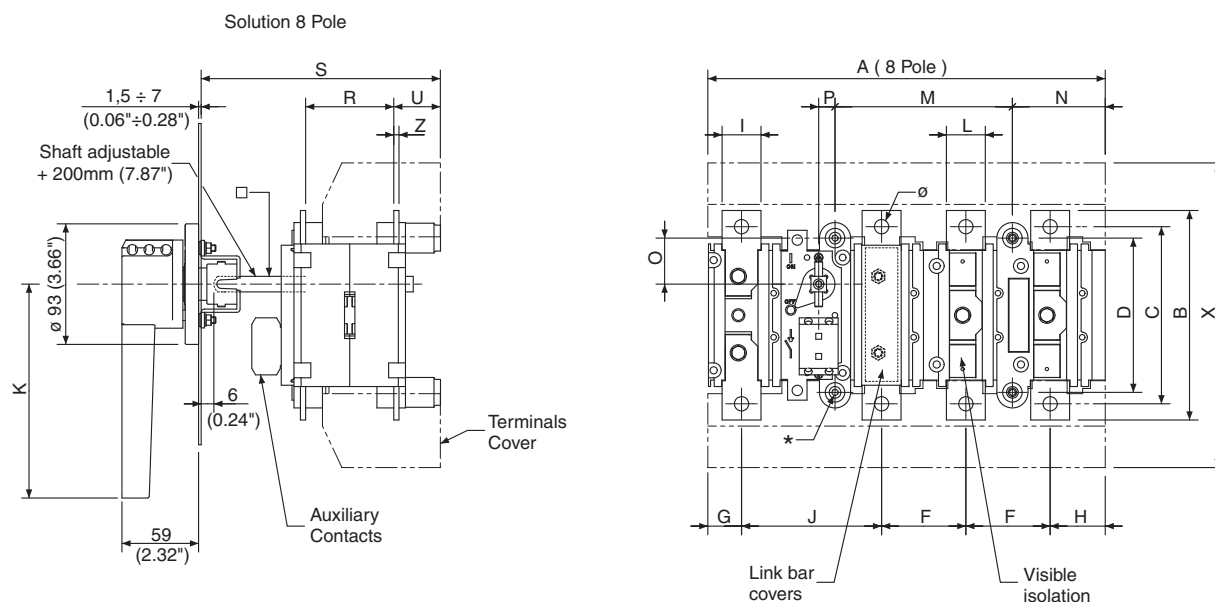
	A	B	C	ø	D	F	H	I	K	L	M	N	O	P	R	S	T	U	Z	X	□	*
ZTF 125A	181	141	113	8,5	107	44	32	16	125	20	98	51	33	6	72	150	36	29	3	178	10	5,5
ZTF 160A	7.13	5.56	4.45	0.34	4.22	1.74	1.26	0.63	4.93	0.79	3.86	2.01	1.30	0.24	2.84	5.91	1.42	1.15	0.12	7.01	0.40	0.22
ZTF 250A										25												
	251	161	136	10,5	119	65	42	25	125	0.99	137	72	36	12	90	197	35	36	4	234	12	6,5
ZTF 400A	9.89	6.34	5.36	0.42	4.69	2.56	1.66	0.99	4.93	30	5.40	2.84	1.42	0.48	3.55	7.76	1.38	1.42	0.16	9.22	0.48	0.26
										1.19												
ZTF 630A	325	238	200	12,5	176	87	49	36	165	40	174	92	64	19,5	108	230	40	48	6	333	12	7
	12.80	9.38	7.88	0.50	6.93	3.43	1.93	1.42	6.50	1.58	6.86	3.63	2.52	0.77	4.26	9.06	1.58	1.89	0.24	13.12	0.48	0.28

ZTS 3-4-6 POLI



	A	B	C	ø	D	F	H	I	K	L	M	N	O	P	R	S	T	U	Z	X	□	*
ZTS 125A	181	141	113	8,5	107	44	32	16	125	20	98	51	33	6	72	93	70	29	3	178	10	5,5
ZTS 160A	7.13	5.56	4.45	0.34	4.22	1.74	1.26	0.63	4.93	0.79	3.86	2.01	1.30	0.24	2.84	3.67	2.76	1.15	0.12	7.01	0.40	0.22
ZTS 200A																						
ZTS 250A										25												
										0.99												
ZTS 400A	251	161	136	10,5	119	65	42	25	125	30	137	72	36	12	90	113	70	36	4	234	12	6,5
	9.89	6.34	5.36	0.42	4.69	2.56	1.66	0.99	4.93	1.19	5.40	2.84	1.42	0.48	3.55	4.45	2.76	1.42	0.16	9.22	0.48	0.26
ZTS 630A		187	156							35												
		7.37	6.15							1.38												
ZTS 630A (visible isolation)																			6			
ZTS 800A	325	238	200	12.5	176	87	49	36	165	40	174	92	64	19,5	108	130	72	48	0,24	333	12	7
ZTS 1000A	12.80	9.38	7.88	0.50	6.93	3.43	1.93	1.42	6.50	1.58	6.86	3.63	2.52	0.77	4.26	5.12	2.84	1.89	10	13.12	0.48	0.28
																			0.40			

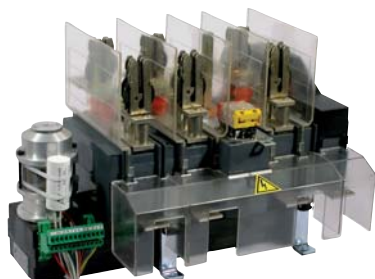
ZTS 8 POLI



	A	B	C	ø	D	F	G	H	I	J	K	L	M	N	O	P	R	S	U	Z	□	*
ZTS 125A	222	141	113	8,5	107	44	20	32	20	82	125	20	98	51	33	6	57	163	29	3	10	5,5
ZTS 160A	8.75	5.56	4.45	0.34	4.22	1.74	0.79	1.26	0.79	3.23	4.93	0.79	3.86	2.01	1.30	0.24	2.25	6.42	1.15	0.12	0.40	0.22
ZTS 250A									25 0.99			25 0.99										
ZTS 400A	306 12.05	161 6.34	136 5.36	10,5 0.42	119 4.69	65 2.56	25 0.99	42 1.66	30 1.19	109 4.30	125 4.93	30 1.19	137 5.40	72 2.84	36 1.42	12 0.48	67 2.64	183 7.21	36 1.42	4 0.16	12 0.48	6,5 0.26
ZTS 630A		187 7.37	156 6.15						35 1.38			35 1.38										
ZTS 800A																				6		
ZTS 1000A	378 14.89	238 9.38	200 7.88	12,5 0.50	176 6.93	87 3.43	25 0.99	49 1.93	40 1.58	130 5.12	165 6.50	40 1.58	174 6.86	92 3.63	64 2.52	19,5 0.77	77 3.04	202 7.96	48 1.89	0.24 10 0.40	12 0.48	7 0.28

On request

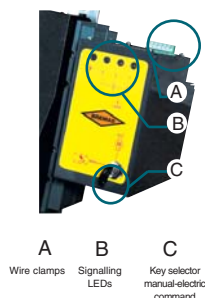
Motor driven change-over switches



Range: 125A ÷ 1600A
 3-4 poli
 operating sequences: II-0-I or II-I
 500V AC 23A 690V AC 22A CEI EN 60947-6-1
 600V DC 22A CEI EN 60947-6-1
 insulation voltage 1000 V

Change-over switches with control board

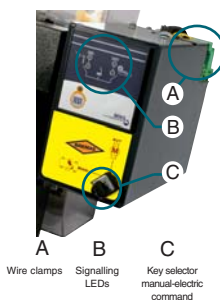
This unit allows to remotely control the switch and has an output for error signals.



- LED for error signals
- LED for position signal main line / generator
- Key selector for manual/electric switching
- Power supply 220V a.c. or 24V d.c.

Change-over switches with microprocessor MNS

Offers the possibility to automatically switch between the main line and the generator in case of brownouts. The control logic switches back to the main line when the voltage returns to a normal level.



- LED for error signals
- LED for position signal main line / generator
- Key selector for manual/electric switching
- Power supply 220V a.c. or 24V d.c.