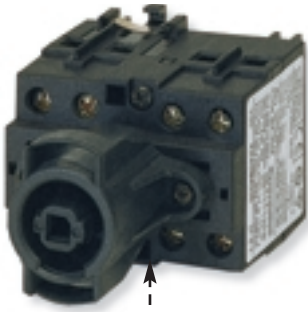


KNZ/XNA/XNF - Rotary Disconnects



KNZ/XNA/XNF Series



KNZ (non-expandable)

- 16, 30 or 40 Amp rating



- Pillar-type connection
- Two, three or four pole versions available
- Wiring terminals with IP20 finger safe protection against accidental contact
- Screws provided with captive self-lifting cable clamps, which are supplied in open position, for quick and easy wiring
- Positively-opening double-break contacts, made of silver alloy

XNF With fuses (expandable)

- 16, 25 or 32 Amp rating

XNA (expandable)

- 16, 25, 32, 50, 63, 80 or 100 Amp rating



XNA and XNF

Expandable with additional pole(s) or auxiliary contact block(s)



- When ordering, specify Catalog Number of the disconnect along with the Catalog Number of the front trim plate, because these two products are supplied separately. The standard operating shaft is supplied with the disconnect.

- Available with fast Ø22mm rear mounting



- IP65 rated operating handle



- New modular and shaft extensions

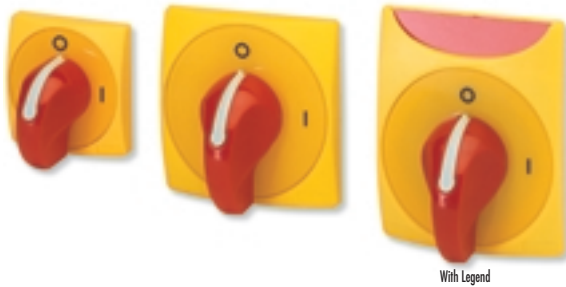


Rotary Disconnects



Front Trim Plates

Emergency Switches



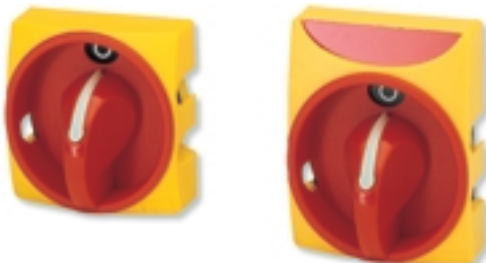
With Legend

Switches



With Legend

Emergency Switches with Lockout



With Legend

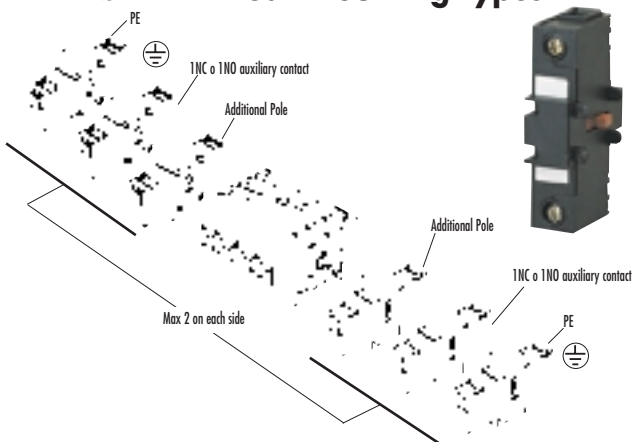
Switches with Lockout



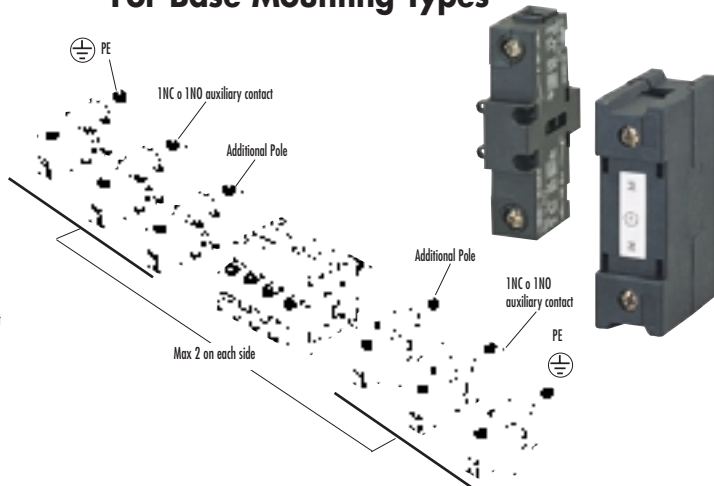
With Legend

Additional Pole(s) and Auxiliary Contact Block(s)

For Rear Mounting and Ø22mm Rear Mounting Types

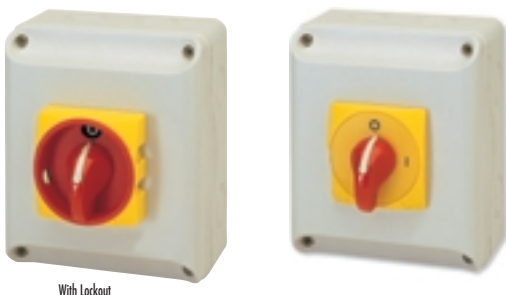


For Base Mounting Types



Rotary Disconnects Mounted in Non-metallic IP65 Enclosures

Three or Four Pole Emergency Disconnects



With Lockout

Three or Four Pole Disconnects



With Lockout

Rotary Disconnects



Housing rear mounting



KNZ - Housing

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR511000	KNZ16R2000	BR511300	KNZ16R3000	BR511600	KNZ16R4000	16 A
BR513700	KNZ30R2000	BR514000	KNZ30R3000	BR514300	KNZ30R4000	32 A
BR516400	KNZ40R2000	BR516700	KNZ40R3000	BR517000	KNZ40R4000	40 A

XNA - Housing

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR519100	XNA162R	BR521200	XNA163R	BR523300	XNA164R	16 A
BR523500	XNA252R	BR5125400	XNA253R	BR527500	XNA254R	25 A
BR528400	XNA322R	BR530500	XNA323R	BR532600	XNA324R	32 A

XNF - Housing with fuses

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR533300	XNF162R	BR533900	XNF163R	BR534700	XNF164R	16 A
BR535600	XNF322R	BR536500	XNF323R	BR537400	XNF324R	32 A

Housing base mounting



KNZ - Housing

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR509200	KNZ16B2000	BR509500	KNZ16B3000	BR509800	KNZ16B4000	16 A
BR511900	KNZ30B2000	BR512200	KNZ30B3000	BR512500	KNZ30B4000	32 A
BR514600	KNZ40B2000	BR514900	KNZ40B3000	BR515200	KNZ40B4000	40 A

XNA - Housing

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR518500	XNA162B	BR526600	XNA163B	BR522700	XNA164B	16 A
BR523400	XNA252B	BR524800	XNA253B	BR526900	XNA254B	25 A
BR527800	XNA322B	BR529900	XNA323B	BR532000	XNA324B	32 A
-		BR517300	XNA0503B			50 A
		BR517600	XNA0633B			63 A
		BR517900	XNA0803B			80 A
		BR518200	XNA1003B			100 A

XNF - Housing with fuses

2 pole		3 pole		4 pole		
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	I _{th}
BR509200	XNF162B	BR533500	XNF163B	BR534100	XNF164B	16 A
BR535000	XNF322B	BR535900	XNF323B	BR536800	XNF324B	32 A

Rotary Disconnects



Front trim plates rear and base mounting to screw



KNZ - XNA - XNF Series **IP65**

Switch with grey plate and black handle



Catalog no.	Type	Plate dimensions
BR540700	YNUT4	□48x48
BR541000	YNUT6	□67x67



KNZ - XNA - XNF SeriesI **P65**

Switch with grey anodized plate and black handle with legend label carrier

Catalog no.	Type	Plate dimensions
BR541300	YNUT7	□67x82



KNZ - XNA - XNF Series **IP65**

Emergency-off switch with yellow plate and red handle.



Catalog no.	Type	Plate dimensions
BR541600	YNUY4	□48x48
BR541900	YNUY6	□67x67



KNZ - XNA - XNF Series **IP65**

Emergency-off switch with yellow plate and red handle with legend label carrier

Catalog no.	Type	Plate dimensions
BR542200	YNUY7	□67x82



KNZ - XNA - XNF Series **IP65**

Emergency-off main switch with padlock facility in 0 position, yellow plate and red handle.

Catalog no.	Type	Plate dimensions
BR540100	YNUL6	□67x67



KNZ - XNA - XNF Series **IP65**

Emergency-off main switch with padlock facility in 0 position, yellow plate and red handle with legend label carrier

Catalog no.	Type	Plate dimensions
BR540400	YNUL7	□67x82



KNZ - XNA - XNF Series **IP65**

Main switch with padlock facility in 0 position, grey plate and black handle.

Catalog no.	Type	Plate dimensions
BR539500	YNUK6	□67x67



KNZ - XNA - XNF Series **IP65**

Main switch with padlock facility in 0 position, grey plate and black handle with legend label carrier

Catalog no.	Type	Plate dimensions
BR539800	YNUK7	□67x82

Rotary Disconnects



Housing center rear mounting Ø 22



KNZ - Housing

2 pole		3 pole		4 pole		lth
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	
BR510100	KNZ16G2000	BR510400	KNZ16G3000	BR510700	KNZ16G4000	16 A
BR512800	KNZ30G2000	BR513100	KNZ30G3000	BR513400	KNZ30G4000	32 A
BR51...00	KNZ40G2000	BR51...00	KNZ40G3000	BR51...00	KNZ40G4000	40 A



XNA - Housing

2 pole		3 pole		4 pole		lth
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	
BR518800	XNA162G	BR520900	XNA163G	BR523000	XNA164G	16 A
BR51...00	XNA252G	BR525100	XNA253G	BR527200	XNA254G	25 A
BR528400	XNA322G	BR530200	XNA323G	BR532300	XNA324G	32 A



XNF - Housing with fuses

2 pole		3 pole		4 pole		lth
Catalog no.	Type	Catalog no.	Type	Catalog no.	Type	
BR533200	XNF162G	BR533800	XNF163G	BR534400	XNF164G	16 A
BR535300	XNF322G	BR536200	XNF323G	BR537100	XNF324G	32 A

Front trim plates center rear mounting Ø 22



KNZ - XNA - XNF Series IP65

Switch with grey plate and black handle



Catalog no.	Type	Plate dimensions
BR538300	YNGT4	□48x48
BR538600	YNGT6	□67x67



KNZ - XNA - XNF Series IP65

Emergency-off switch with yellow plate and red handle.



Catalog no.	Type	Plate dimensions
BR538900	YNGY4	□48x48
BR539200	YNGY6	□67x67



KNZ - XNA - XNF Series IP65

Emergency-off main switch with padlock facility in 0 position, yellow plate and red handle.

Catalog no.	Type	Plate dimensions
BR53800	YNGL6	□67x67



KNZ - XNA - XNF IP65

Main switch with padlock facility in 0 position, grey plate and black handle with legend label carrier

Catalog no.	Type	Plate dimensions
BR537700	YNGK6	□67x67

Rotary Disconnects



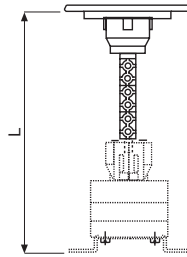
Accessories



Shaft extensions

- Allows adapting the switches with door interlocking device to the different mounting lengths

code	type	length
BR508300	B - GNAPO	100 mm
BR508600	B - GNAP1	150 mm
BR508900	B - GNAP2	200 mm



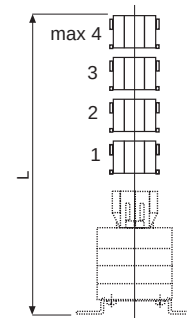
L=(mm)	CN012 - CN016 - CN020				CN025 - CN032			
	1	2	3	+	1	2	3	+
H=100mm	min 181	194	206	+ 12.2	216	232	248	+ 16.2
	max 191	203	215		225	242	258	
H=150mm	min 231	244	256	+ 12.2	266	282	298	+ 16.2
	max 241	253	265		275	292	308	
H=200mm	min 281	294	306	+ 12.2	316	332	348	+ 16.2
	max 291	303	315		325	342	358	



Modular extensions

- Allows adapting the switches with door interlocking device to the different mounting lengths
- Includes 4 forms that overlap

catalog no	type	length
BR508000	B - GNAMO	-



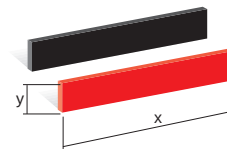
L=(mm)	CN012 - CN016 - CN020				CN025 - CN032			
	1	2	3	+	1	2	3	+
1	min 101	114	126	+ 12.2	111	127	143	+ 16.2
	max 111	123	135		120	137	153	
2	min 126	139	151	+ 12.2	136	152	168	+ 16.2
	max 136	148	160		145	162	178	
3	min 151	164	176	+ 12.2	161	177	193	+ 16.2
	max 161	173	185		170	187	203	
3	min 176	189	201	+ 12.2	186	202	218	+ 16.2
	max 186	198	210		195	212	228	



Plate for base mounting (base mounting)

KNZ 16÷40 A

catalog no	type
VC218600	B-KG6047



Black label - red label for engraving blank

- For front trim plates with legend label carrier

catalog no	type	length
BR506800	B - 6429	-



Protection shrouds for terminals

- Allow increasing the degree of protection of the connection terminals.

KNZ 16÷40 A

catalog no.	type	Terminal cover descriptional
VC211100	B-G1280	3- 4 pole

* The catalog No. includes the upper and lower cover



XNA 50÷100 A

catalogo n.	type	Terminal cover descriptional
VD456100	B-G1305	3 pole

* The catalog No. includes the upper and lower cover



XNA-XNF 16÷32 A

catalog no	type	Terminal cover descriptional
VC286300	B-G813	3- 4 pole

* The catalog No. includes the upper and lower cover



XNA 50÷100 A

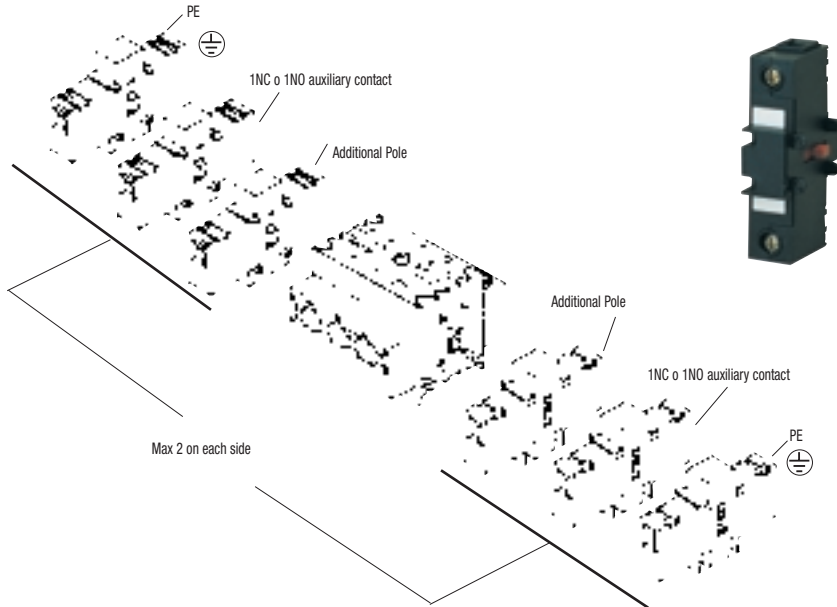
catalogo n.	type	Terminal cover descriptional
VD457900	B-G1304	1 pole

* The catalog No. includes the upper and lower cover

Rotary Disconnects



Additional pole and auxiliary contact block for rear mounting and $\varnothing 22$ mm

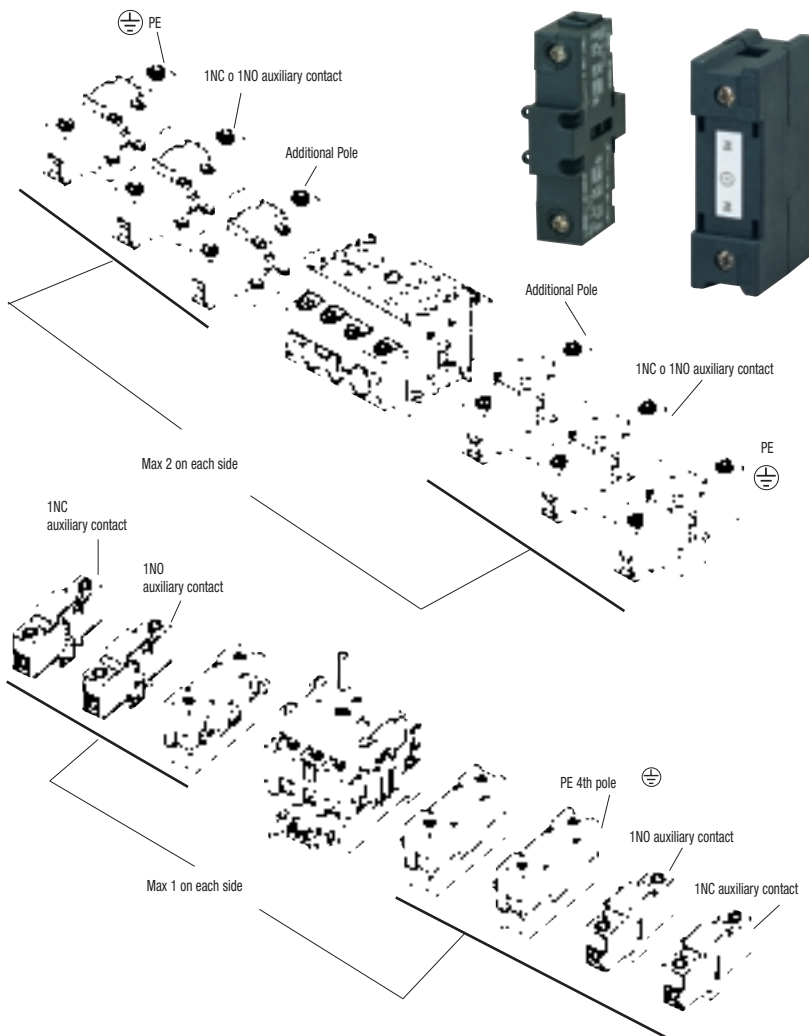


XNA - XNF

Auxiliary contact unit and additional pole for series XNA - XNF

Catalog no.	Type	I_{th}	Contact features
VC300200	XC16AN	16 A	1NO
VC301000	XC16CN	16 A	1NC
VC296200	XC25AN	25 A	1NO
VC297000	XC25CN	25 A	1NC
VC302800	XC32AN	32 A	1NO
VC303600	XC32CN	32 A	1NC
VC304400	XC32GN	16-25-32 A	PE

Additional pole and auxiliary contact block for base mounting



XNA - XNF

Auxiliary contact unit and additional pole for series XNA - XNF

Catalog no.	Type	I_{th}	Contact features
VC301000	XC16CN	16 A	1NO
VC300200	XC16AN	16 A	1NC
VC297000	XC25CN	25 A	1NO
VC296200	XC25AN	25 A	1NC
VC303600	XC32CN	32 A	1NO
VC302800	XC32AN	32 A	1NC
VC304400	XC32GN	16-25-32 A	PE

Catalog no.	Type	I_{th}	Contact features
VD459500	XC012AB	50-63-80-100A	1NO
VD460300	XC012CB	50-63-80-100 A	1NC
VD455300	XC100GB	50-63-80-100 A	PE
VD298800	XC050PB	50 A	N
VD452000	XC063PB	63 A	N
VD453800	XC080PB	80 A	N
VD454600	XC100PB	100 A	N

Auxiliary contact NA	Auxiliary contact NC	Earth PE	Fourth pole N
3	1	PE	N
4	2	PE	N

Rotary Disconnects

Surface mounting



XNA...BXP

IP65

Switch fitted in insulated enclosure and provided with grey front trim plate and black handle

3 pole

4 pole

Catalog no.	Type	Catalog no.	Type	I _{th}
BR520300	XNA1630BXP	BR511300	XNA1640BXP	16 A
BR524500	XNA2530BXP	BR526600	XNA2540BXP	25 A
BR529600	XNA3230BXP	BR531700	XNA3240BXP	32 A

XNA...BXG

IP65

Emergency-off switch fitted in insulated enclosure and provided with yellow front trim plate and red handle

3 pole

4 pole

Catalog no.	Type	Catalog no.	Type	I _{th}
BR519400	XNA1630BXG	BR521500	XNA1640BXG	16 A
BR523600	XNA2530BXG	BR525700	XNA2540BXG	25 A
BR529700	XNA3230BXG	BR530800	XNA3240BXG	32 A

XNA...BXL

IP65

Main switch fitted in insulated enclosure and provided padlock facility in 0 position; yellow front trim plate and red handle

pole

4 pole

Catalog no.	Type	Catalog no.	Type	I _{th}
BR519700	XNA1630BXL	BR521800	XNA1640BXL	16 A
BR523900	XNA2530BXL	BR526000	XNA2540BXL	25 A
BR529000	XNA3230BXL	BR531100	XNA3240BXL	32 A

XNA...BXN

IP65

Emergency-off main switch fitted in insulated enclosure and provided with padlock facility in 0 position; grey front trim plate and black handle

3 pole

4 pole

Catalog no.	Type	Catalog no.	Type	I _{th}
BR512000	XNA1630BXN	BR522100	XNA1640BXN	16 A
BR524200	XNA2530BXN	BR526300	XNA2540BXN	25 A
BR529300	XNA3230BXN	BR531400	XNA3240BXN	32 A

Rotary Disconnects



Diagrams

KNZ (30-400 A) 2 - pole	KNZ (16-30-40 A) XNA (16-100 A) 3 - pole	KNZ (16-30-40 A) XNA (16-25-32 A) 4 - pole	XNA (50-100 A) 6 - pole

Overall dimensions (mm) of housing base mounting

Version	Front view	Side view
KNZ (16-30-40A)		
XNA (16-32A)		
XNA (50*100)		

Rotary Disconnects



Overall dimensions (mm) of housing base mounting

Version	Front view	Side view
XNF...B (16 A)		
XNF...B (32 A)		

Overall dimensions (mm)

XC16CN XC16AN XC25CN XC25AN XC32CN XC32AN XC32GN XC012AB XC012CB		
XC100GB XC050PB XC063PB XC080PB XC100PB		
B-KG6047		

Rotary Disconnects



Overall dimensions (mm) of housing rear mounting

Version	Front view	Side view
KNZ..R (16-30-40A) KNZ..G (16-30-40A)		
XNA..R XNF..R (16-32A) XNA..G (16-32A)		
XNF..R/G (16 A)		
XNF..R/G (32A)		

Rotary Disconnects



Overall dimensions (mm) front trim plates

Version	Front view	Side view	Hole layout	
			Recon mounting	Base mounting
YNUT4 YNUY6				
YNUT6 YNUY6				
YNUK6 YNUK6				
YNUT7 YNUY7				
YNUK7 YNUK7				

* On request only for KNZ-XNF series

Rotary Disconnects



KNZ - Technical data

					KNZ16	KNZ30	KNZ40
Rated insulation voltage	Ui	IEC947-3	V		690	690	690
		UL/CSA	V		-	600	600
		CEE24	V				
Rated impulse withstand voltage	Uimp	IEC947-3	kV		6	6	6
Rated thermal current	Free air	IEC947-3	A		25	32	40
		UL/CSA	A		-	30	40
	Enclosed	IEC947-3	A		25	32	40
Rated operational current	Category AC21A	le	IEC947-3	690 V A	20	30	40
	Category AC22A	le	IEC947-3	690 V A	16	32	32
Max ratings for application on-phase motors	Category AC23A	IEC947-3	230 V	kW	5.5 (22)	7.5 (24)	10 (31)
			400 V	kW	9 (18)	12 (20)	18.5 (33)
			500 V	kW	9 (14)	11 (16)	22 (32)
			690 V	kW	11 (14)	15 (16)	22 (23)
	Category AC3	IEC947-3	230 V	kW	4 (16)	6 (17)	9 (27)
			400 V	kW	7.5 (18)	9.5 (15)	17 (27)
			500 V	kW	7.5 (12)	9.5 (14)	19 (28)
			690 V	kW	9 (10)	11.5 (12)	22 (24)
Resistive load (motor load)		CEE24	A		-	-	-
Standard motor load	3-phase / 3-pole	UL/CSA	120 V	HP 2	3	5	
				240 V HP	5	7.5	10
				480 V HP	7.5	10	15
				600 V HP	7.5	10	15
	1-phase / 2-pole	UL/CSA	120 V	HP -	2	2	
				240 V HP	-	3	3
Rated short-time withstand current (1s)	l _{cw}		A		600	600	800
Short-circuit protection:							
Rated conditional short-circuit current		IEC947-3	kA _{eff}	10	10	10	
With fuse type gG		500 V	A	16	16	32	
Rated short-circuit making capacity	l _{cm}	IEC947-3	A		1500	1500	2000
Rated breaking capacity in category AC23 (cosφ 0.45)		IEC947-3	230 V	A	184	184	248
			400 V	A	160	160	264
Average power dissipation for each pole			W	1.1	1.6		
Connection capacity:							
Terminal gauge		IEC947-1			B6	B6	B6
Rigid cables	min-max		mm ²		1.5-16	1.5-16	1.5-16
			AWG		16-6	16-6	16-6
Flexible cables	min-max		mm ²		1.5-10	1.5-10	1.5-10
			AWG		16-8	16-8	16-8

Normal service conditions

Air ambient temperature	storage	°C		-30 - +70
	operational	°C		-25 - +55
Resistance to climate	constant hot-damp climate, according to IEC 68 Part:			2-8
	cyclic hot-damp climate, according to IEC 68 Part:			2-30

Auxiliary contacts

Rated insulation voltage	Ui	IEC947-3	V	
Rated thermal current	l _{th}	IEC947-3	A	
	Category AC15	le	IEC947-5	230 V A
Rated operational current	Category AC21A		IEC947-3	690 V A

Rotary Disconnects



XNA/XNF - Technical data

					XNA16	XNA25	XNA32		
Rated insulation voltage		Ui	IEC947-3		V	690	690	690	
			UL/CSA		V	600	-	600	
			CEE24		V				
Rated impulse withstand voltageUimp		Uimp	IEC947-3		kV	6	6	6	
Rated thermal current	Free air	Ith	IEC947-3		A	25	32	40	
			UL/CSA		A	20	-	40	
	Enclosed	Ithe	IEC947-3		A	16	25	32	
Rated operational current	Category AC21A	Ie	IEC947-3		690 V A	20	25	40	
	Category AC22A	Ie	IEC947-3		690 V A	16	25	32	
Max ratings for application on 3-phase motors	Category AC23A		IEC947-3	230 V	kW	7,5	9	10	
				400 V	kW	13	15	18,5	
				500 V	kW	13	15	18,5	
				690 V	kW	15	18,5	22	
	Category AC3		IEC947-3	230 V	kW	6	7,5	9	
				400 V	kW	10	13	15	
				500 V	kW	10	13	15	
				690 V	kW	12	15	18,5	
Resistive load (motor load)		CEE24	A			20(8)	-	32(10)	
Standard motor load	3-phase / 3-pole	UL/CSA	120 V	HP		2	3	5	
				240 V	HP	5	7,5	10	
				480 V	HP	10	10	15	
				600 V	HP	10	15	15	
	1-phase / 2-pole	UL/CSA	120 V	HP		1,5	-	3	
				240 V	HP	2	-	5	
Rated short-time withstand current (1s)		Icw	A			400	800	800	
Protezione contro cortocircuiti - Short-circuit protection:									
Rated conditional short-circuit current		IEC947-3		kAeff		10	10	10	
With fuse type gG		500 V		A		16	25	32	
Rated short-circuit making capacity		Icm	IEC947-3		A	1500	2000	2000	
Rated breaking capacity in category AC23 (cosφ 0.45)			IEC947-3	230 V	A	184	240	240	
				400 V	A	192	264	264	
Contatto - Average power dissipation for each pole						0,9	1,6	-	
Connection capacity:									
Terminal gauge		IEC947-1				B6	B6	B6	
Rigid cables		min-max				1,5-16	1,5-16	1,5-16	
				AWG		16-6	16-6	16-6	
Flexible cables		min-max				1,5-10	1,5-10	1,5-10	
				AWG		16-8	16-8	16-8	
Normal service conditions									
Air ambient temperature		di stoccaggio/storage		°C					
		di funzionamento/operational		°C					
Resistance to climate	constant hot-damp climate, according to IEC 68 Part:								
	cyclic hot-damp climate, according to IEC 68 Part:								

Auxiliary contacts

Rated insulation voltage	Ui	IEC947-3	V		XC16AN	XC25AN	XC32AN	
Rated thermal current	lth	IEC947-3	A		XC16CN	XC25CN	XC32CN	
Rated operational current	Category AC15	le	IEC947-5	230 V A	690	690	690	
	Category AC21A		IEC947-3	690 V A	20	32	40	
					6	6	6	
					20	25	40	



XNA050	XNA063	XNA080	XNA100	XNF16	XNF32
690	690	690	690	690	690
-	600	600	600	-	-
-	-	-	-	-	-
6	6	6	6	6	6
50	63	80	100	16	32
-	80	100	100	-	-
50	63	80	80	16	16
50	63	80	100	16	16
50	63	80	80	16	16
11	15	18,5	22	7,5	10
22	25	30	35	13	18,5
22	30	37	45	13	18,5
18,5	18,5	22	30	15	22
11	11	15	18,5	6	9
18,5	18,5	22	30	10	15
18,5	22	30	37	10	15
15	15	18,5	22	12	18,5
-	-	-	-	-	-
-	-	-	-	-	-
-	20	25	25	-	-
-	30	40	50	-	-
-	30	50	50	-	-
-	-	-	-	-	-
-	-	-	-	-	-
1500	1500	1500	1500	400	800
15	15	15	15	10	10
50	63	80	100	16	32
2000	2000	2500	2500	-	-
376	376	560	560	184	240
376	376	504	504	192	264
-	-	-	-	1,8	3,5
B9	B9	B9	B9	B6	B6
10-50	10-50	10-50	10-50	1,5-10	1,5-10
8-1	8-1	8-1	8-1	16-8	16-8
6-35	6-35	6-35	6-35	1,5-16	1,5-16
16-8	10-1	10-1	10-1	16-6	16-6
-30÷+70				-30÷+70	-30÷+70
-25÷+55				-25÷+55	-25÷+55
2-3				2-3	2-3
2-30				2-30	2-30
XC012AB XC012CB				XNF16	XNF32
690				690	690
12				20	40
6				6	6
-				20	40