

ZBK Switch door mounting with padlockable handle IP66

3P - 3P+N

Size 0

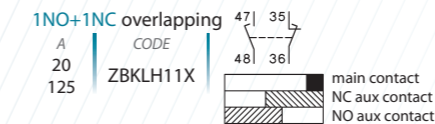
A 20|25|40|63|80|125



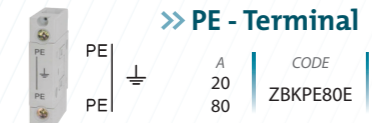
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	3P+N	ZBK20EHN4A4	ZBK25EHN4A4	ZBK40EHN4A4	ZBK63EHN4A4	ZBK80EHN4A4	ZBK125EHN4A4
48	3P	ZBK20EH4A3	ZBK25EH4A3	ZBK40EH4A3	ZBK63EH4A3	ZBK80EH4A3	ZBK125EH4A3
	3P+N	ZBK20EH4A4	ZBK25EH4A4	ZBK40EH4A4	ZBK63EH4A4	ZBK80EH4A4	ZBK125EH4A4
64	3P	ZBK20EHN1A3	ZBK25EHN1A3	ZBK40EHN1A3	ZBK63EHN1A3	ZBK80EHN1A3	-
	3P+N	ZBK20EHN1A4	ZBK25EHN1A4	ZBK40EHN1A4	ZBK63EHN1A4	ZBK80EHN1A4	-
48	3P	ZBK20EH1A3	ZBK25EH1A3	ZBK40EH1A3	ZBK63EH1A3	ZBK80EH1A3	-
	3P+N	ZBK20EH1A4	ZBK25EH1A4	ZBK40EH1A4	ZBK63EH1A4	ZBK80EH1A4	-

Accessories

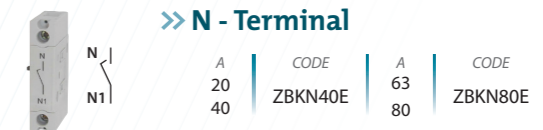
Auxiliary contacts



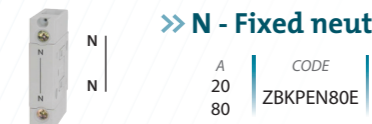
PE - Terminal



N - Terminal



N - Fixed neutral

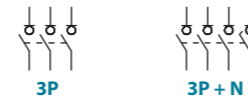


Auxiliary contacts technical information

Rated insulation voltage	Ui	V	690
Rated thermal current	Ith - Ithe	A	10
Switching capacity	AC15	220-240V	A 2,5
	AC15	380-440V	A 1,5
Rated conditional short-circuit current	kAeff	3	
Max. short circuit protection	gL(gG)	A	10

Connecting capacity		
Solid or stranded cable	mm ²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm ²	0,75-2,5 (1,5)
	AWG	18-14

Technical information



According to VDE 0660, IEC 60947-3, IEC 60947-5-1

			20	25	40	63	80	125
Rated thermal current	Ith	A	20	25	40	63	80	125
Rated thermal current enclosed	Ithe	A	20	25	40	63	80	110
Rated insulation voltage	Ui	V	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp	kV	6	6	6	6	6	8
AC rated operational current	Ie	AC21A	A	20	25	40	63	80
Making capacity	Ieff	3x380-440V	A	160	190	300	370	440
Breaking capacity		3x220-240V	A	160	180	250	330	380
		3x380-440V	A	160	180	250	330	380
		3x660-690V	A	80	110	170	190	220
Direct switching motors	AC3	3x400V	A	12	16	30	37	72
		3x220-240V	kW	3	4	7,5	11	22
		3x380-440V	kW	5,5	7,5	15	18,5	37
		3x660-690V	kW	5,5	7,5	15	18,5	30
Main & safety switch	AC23	3x400V	A	16	20	32	45	85
		3x220-240V	kW	4	5,5	9	15	30
		3x380-440V	kW	7,5	10	16	22	45
		3x660-690V	kW	5,5	7,5	15	18,5	37
Rated conditional short-circuit current	kAeff	10	10	10	10	10		
Max. fuse size	gL(gG)	A	25	35	50	63	80	
Rated short-time withstand current (1sec.)	Icw	A	250	300	500	600	1500	
Mechanical life	x10 ³	200	200	200	100	100		
Connecting capacity								
	Solid or stranded cable	mm ²	0,5-10		1-25 ^{*(1)}		4-50	
Flexible cable								
	mm ²	0,5-6		4-16 ^{*(1)}		10-35		
Size of terminal screw		M3,5		M5		M6		
Tightening torque	Nm	0,8-1,7		2-4		3,5-4,5		

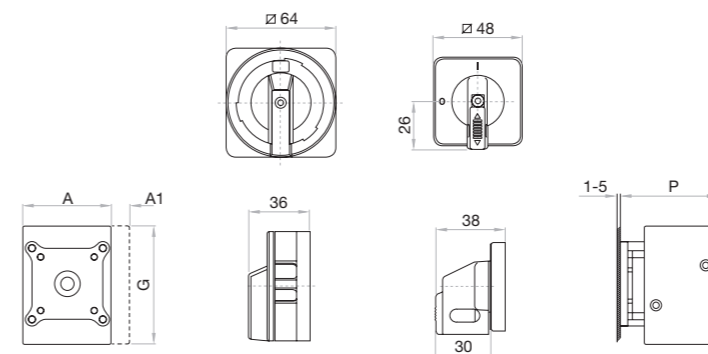
According to UL & cUL FILE NO. E123623

			20	25	40	63	80	125
Rated voltage	V	600	600	600	600	600	600	
Ampere-Rating "General use"	A	20	25	40	63	80	125	
DOL-Rating 3-phase	110-220V	HP	1	1,5	2	3	5	
	220-240V	HP	3	5	5	10	30	
	440-480V	HP	7,5	10	10	20	60	
	550-600V	HP	10	10	15	25	60	
	200-208V	HP	1	1	1	2	7,5	
DOL-Rating 1-phase	200-208V	HP	1	2	2	3	10	
	220-240V	HP	2	2	3	5	15	
Fuse size (RK5)	Manual Motor Controller	A	40	50	70	90	125	
5kA / 600V	Motor Disconnect	A	40	50	50	70	125	
Tightening torque								
	Nm	1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5	
	lb.Inch	11-20	11-20	11-20	24-35	24-35	15-40	

^{*(1)} ZBK63...U stranded 16 mm² / flexible 10 mm²

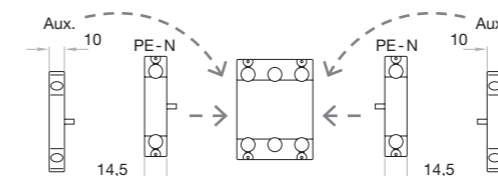
Dimensions (mm)

Door drilling for external handle



	3P	4P			
	A	A	E	G	P
20-80 A \varnothing 48	48	62,5	36	64	54
20-80 A \varnothing 64	48	62,5	48	64	54
125 A \varnothing 64	78	78	48	85	60

Auxiliary contacts



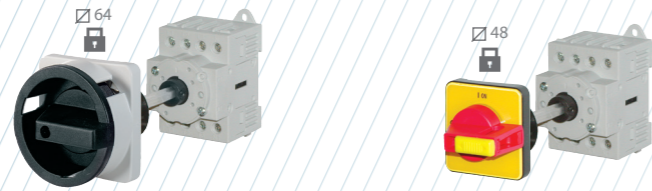
Other options also available on request:
- Products external mounting fixing \varnothing 22
- Terminal shrouds

ZBK Switch base mounting $\varnothing 22$ door clutch padlockable handle IP66

3P - 3P+N

Size 0

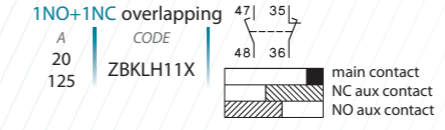
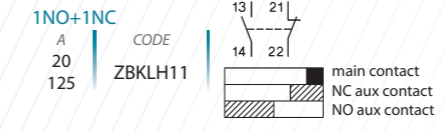
A 20|25|40|63|80|125



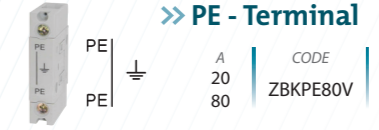
	CODE-20A	CODE-25A	CODE-40A	CODE-63A	CODE-80A	CODE-125A
64	3P ZBK20VZVHN4A3	ZBK25VZVHN4A3	ZBK40VZVHN4A3	ZBK63VZVHN4A3	ZBK80VZVHN4A3	ZBK125VZVHN4A3
	3P+N ZBK20VZVHN4A4	ZBK25VZVHN4A4	ZBK40VZVHN4A4	ZBK63VZVHN4A4	ZBK80VZVHN4A4	ZBK125VZVHN4A4
	3P ZBK20VZVH4A3	ZBK25VZVH4A3	ZBK40VZVH4A3	ZBK63VZVH4A3	ZBK80VZVH4A3	ZBK125VZVH4A3
	3P+N ZBK20VZVH4A4	ZBK25VZVH4A4	ZBK40VZVH4A4	ZBK63VZVH4A4	ZBK80VZVH4A4	ZBK125VZVH4A4
48	3P -	ZBK25VZVHN1A3	ZBK40VZVHN1A3	ZBK63VZVHN1A3	ZBK80VZVHN1A3	ZBK125VZVHN1A3
	3P+N -	ZBK25VZVHN1A4	ZBK40VZVHN1A4	ZBK63VZVHN1A4	ZBK80VZVHN1A4	ZBK125VZVHN1A4
	3P -	ZBK25VZVH1A3	ZBK40VZVH1A3	ZBK63VZVH1A3	ZBK80VZVH1A3	ZBK125VZVH1A3
	3P+N -	ZBK25VZVH1A4	ZBK40VZVH1A4	ZBK63VZVH1A4	ZBK80VZVH1A4	ZBK125VZVH1A4

Accessories

Auxiliary contacts



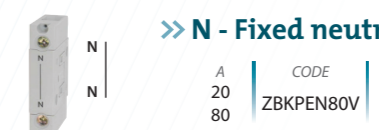
PE - Terminal



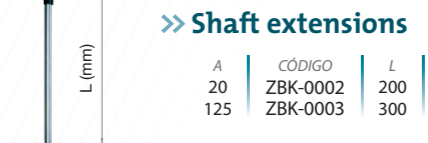
N - Terminal



N - Fixed neutral



Shaft extensions



Technical information



According to VDE 0660, IEC 60947-3, IEC 60947-5-1

			20	25	40	63	80	125
Rated thermal current	I _{th}	A	20	25	40	63	80	125
Rated thermal current enclosed	I _{the}	A	20	25	40	63	80	110
Rated insulation voltage	U _i	V	690	690	690	690	690	1000
Rated impulse withstand voltage	U _{imp}	kV	6	6	6	6	6	8
AC rated operational current	I _e	A	20	25	40	63	80	125
Making capacity	I _{eff}	kA	160	190	300	370	440	850
Breaking capacity		kA	160	180	250	330	380	680
		kV	80	110	170	190	220	420
Direct switching motors	AC3	3x400V	12	16	30	37	37	72
	AC3	3x220-240V	3	4	7,5	11	11	22
		3x380-440V	5,5	7,5	15	18,5	18,5	37
		3x660-690V	5,5	7,5	15	18,5	18,5	30
Main & safety switch	AC23	3x400V	16	20	32	45	45	85
	AC23A	3x220-240V	4	5,5	9	15	15	30
	AC23B	3x380-440V	7,5	10	16	22	22	45
		3x660-690V	5,5	7,5	15	18,5	18,5	37
Rated conditional short-circuit current	kA _{eff}		10	10	10	10	10	10
Max. fuse size	gL(gG)	A	25	35	50	63	80	125
Rated short-time withstand current (1sec.)	I _{cw}	A	250	300	500	600	850	1500
Mechanical life	x10 ³		200	200	200	100	100	100
Connecting capacity								
Solid or stranded cable	mm ²		0,5-10		1-25 ^{*)}		4-50	
	AWG		20-8 (10)		16-4 (10)		10-0 (10)	
Flexible cable	mm ²		0,5-6		4-16 ^{*)}		10-35	
	AWG		20-10		16-6		8-2	
Size of terminal screw			M3,5		M5		M6	
Tightening torque	Nm		0,8-1,7		2-4		3,5-4,5	

According to UL & cUL FILE NO. E123623

			20	25	40	63	80	125
Rated voltage	V		600	600	600	600	600	600
Ampere-Rating "General use"	A		20	25	40	63	80	125
DOL-Rating 3-phase	HP		1	1,5	2	3	5	15
	HP		3	5	5	10	10	30
	HP		7,5	10	10	20	20	60
	HP		10	10	15	25	25	60
DOL-Rating 1-phase	HP		1	1	1	2	2	7,5
	HP		1	2	2	3	3	10
	HP		2	2	3	5	5	15
Fuse size (RK5)	A		40	50	70	90	110	125
5kA / 600V	A		40	50	50	70	70	125
Tightening torque	Nm		1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	1,7-4,5
	lb.Inch		11-20	11-20	11-20	24-35	24-35	15-40

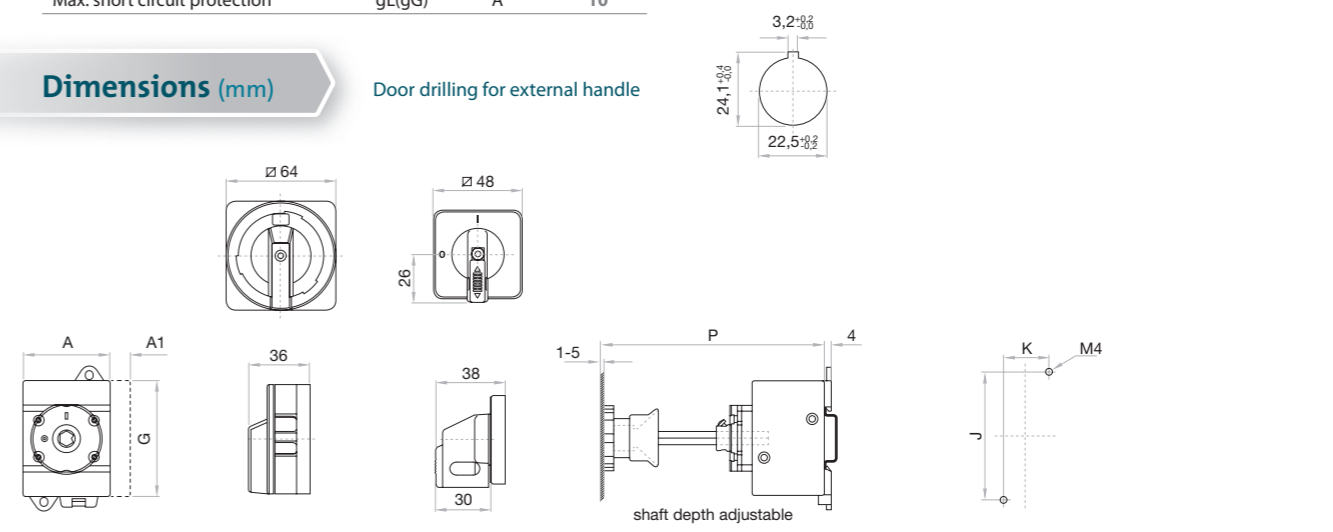
*) ZBK63 U stranded 16 mm² / flexible 10 mm²

Auxiliary contacts technical information

Rated insulation voltage	U _i	V	690
Rated thermal current	I _{th} - I _{the}	A	10
Switching capacity	AC15	220-240V	A 2,5
	AC15	380-440V	A 1,5
Rated conditional short-circuit current	kA _{eff}		3
Max. short circuit protection	gL(gG)	A	10

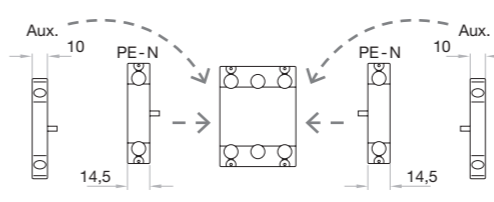
Connecting capacity		
Solid or stranded cable	mm ²	0,75-2,5
	AWG	14-12
Flexible cable	mm ²	0,75-2,5 (1,5)
(+ multicore cable end)	AWG	18-14

Dimensions (mm)



	3P		4P		P	
	A	A	G	J	K	min max
20 - 40 A	48	48	64	70	25	91 190
63 - 80 A	48	62,5	64	70	25	91 190
125 A	78	78	85	90	38	95 190

Auxiliary contacts A1



Other options also available on request:
 - Products with customized shaft dimensions (L max = 400mm)
 - Terminal shrouds

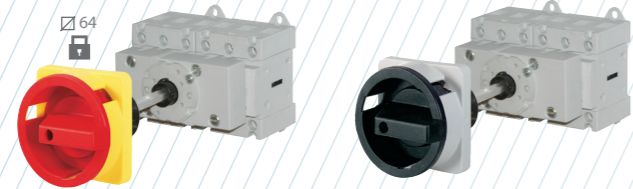
ZBK

Switch base mounting $\varnothing 22$ door clutch padlockable handle IP66

6P - 8P

Size 0

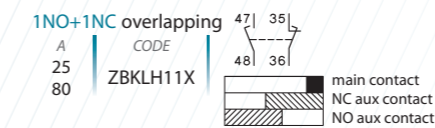
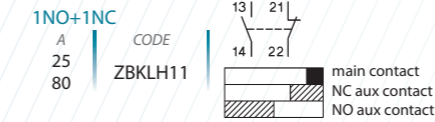
A 25|40|80



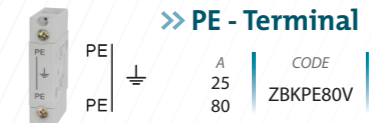
	CODE-25A	CODE-40A	CODE-80A
6P	ZBK25VZVHN4A6	ZBK40VZVHN4A6	ZBK80VZVHN4A6
8P	ZBK25VZVHN4A8	ZBK40VZVHN4A8	ZBK80VZVHN4A8
6P	ZBK25VZVH4A6	ZBK40VZVH4A6	ZBK80VZVH4A6
8P	ZBK25VZVH4A8	ZBK40VZVH4A8	ZBK80VZVH4A8

Accessories

>> Auxiliary contacts



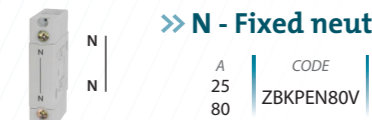
>> PE - Terminal



>> N - Terminal



>> N - Fixed neutral



>> Shaft extensions



Technical information



According to VDE 0660, IEC 60947-3, IEC 60947-5-1



			25	40	80
Rated thermal current	Ith	A	25	40	80
Rated thermal current enclosed	Ithe	A	25	40	80
Rated insulation voltage	Ui	V	690	690	690
Rated impulse withstand voltage	Uimp	kV	6	6	6
AC rated operational current	Ie	AC21A	A	25	40
Making capacity	Ieff	3x380-440V	A	190	300
Breaking capacity		3x220-240V	A	180	250
		3x380-440V	A	180	250
		3x660-690V	A	110	170
Direct switching motors	AC3	3x400V	A	16	30
	AC3	3x220-240V	kW	4	7,5
		3x380-440V	kW	7,5	15
		3x660-690V	kW	7,5	15
Main & safety switch	AC23	3x400V	A	20	32
	AC23A	3x220-240V	kW	5,5	9
	AC23B	3x380-440V	kW	10	16
		3x660-690V	kW	7,5	15
Rated conditional short-circuit current			kAeff	10	10
Max. fuse size	gL(gG)	A	35	50	80
Rated short-time withstand current (1sec.)	Icw	A	300	500	850
Mechanical life		x10 ³	200	200	100
Connecting capacity					
Solid or stranded cable		mm ²	0,5-10	1-25	
		AWG	20-8 (10)	16-4 (10)	
Flexible cable		mm ²	0,5-6	4-16	
		AWG	20-10	16-6	
Size of terminal screw			M3,5	M5	
Tightening torque		Nm	0,8-1,7	2-4	

According to UL & cUL FILE NO. E123623

			25	40	80
Rated voltage		V	600	600	600
Ampere-Rating "General use"		A	25	40	80
DOL-Rating 3-phase		HP	1,5	2	5
	110-220V	HP	5	5	10
	220-240V	HP	10	10	20
	440-480V	HP	10	15	25
	550-600V	HP	1	1	2
DOL-Rating 1-phase		HP	2	2	3
	110-120V	HP	2	3	5
	200-208V	HP	2	3	5
	220-240V	HP			
Fuse size (RK5)	Manual Motor Controller	A	50	70	110
5kA / 600V	Motor Disconnect	A	50	50	70
Tightening torque		Nm	1,2-2,3	1,2-2,3	2,8-4
		lb.Inch	11-20	11-20	24-35

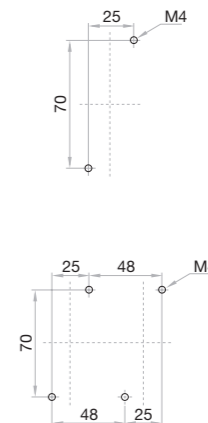
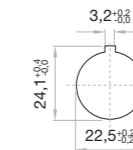
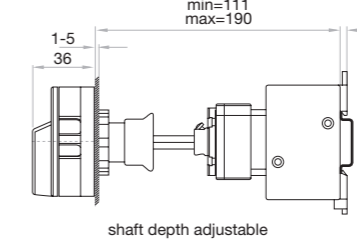
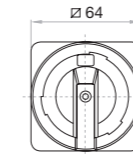
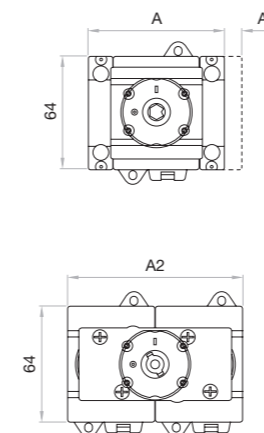
Auxiliary contacts technical information

Rated insulation voltage	Ui	V	690
Rated thermal current	Ith - Ithe	A	10
Switching capacity	AC15	220-240V	A 2,5
	AC15	380-440V	A 1,5
Rated conditional short-circuit current		kAeff	3
Max. short circuit protection	gL(gG)	A	10

Connecting capacity		
Solid or stranded cable	mm ²	0,75-2,5
	AWG	14-12
Flexible cable	mm ²	0,75-2,5 (1,5)
(+ multicore cable end)	AWG	18-14

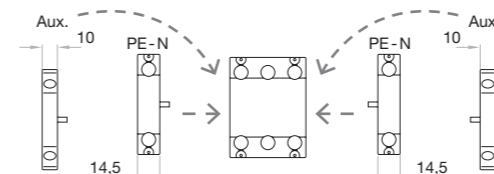
Dimensions (mm)

Door drilling for external handle



	6P	6P	8P
A	A2	A2	A2
25 - 40 A	77	-	97
80 A	-	97	126

Auxiliary contacts A1



- >> Other options also available on request:
- Products with customized shaft dimensions (L max = 400mm)
 - Terminal shrouds

ZBK Switch & changeover

DIN rail mounting modular padlockable handle IP40

3P - 3P+N - 6P - 8P

Size 0

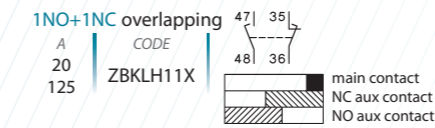
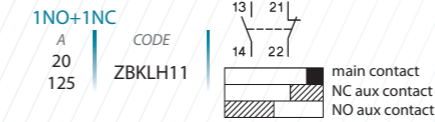
A 20|25|40|63|80|125



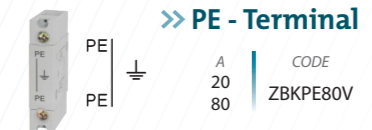
	CODE-20A	CODE-25A	CODE-40A	CODE-63A	CODE-80A	CODE-125A
Switch	3P	ZBK20SMAHN1A3	ZBK25SMAHN1A3	ZBK40SMAHN1A3	ZBK63SMAHN1A3	ZBK80SMAHN1A3
	3P+N	ZBK20SMAHN1A4	ZBK25SMAHN1A4	ZBK40SMAHN1A4	ZBK63SMAHN1A4	ZBK80SMAHN1A4
	3P	ZBK20SMAH1A3	ZBK25SMAH1A3	ZBK40SMAH1A3	ZBK63SMAH1A3	ZBK80SMAH1A3
	3P+N	ZBK20SMAH1A4	ZBK25SMAH1A4	ZBK40SMAH1A4	ZBK63SMAH1A4	ZBK80SMAH1A4
	6P	-	ZBK25SMAHN1A6	ZBK40SMAHN1A6	-	ZBK80SMAHN1A6
	8P	-	ZBK25SMAHN1A8	ZBK40SMAHN1A8	-	ZBK80SMAHN1A8
Changeover	3P+N	ZBK20SMAH1U4	ZBK25SMAH1U4	ZBK40SMAH1U4	ZBK63SMAH1U4	-

Accessories

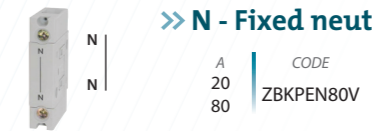
Auxiliary contacts



PE - Terminal



N - Fixed neutral

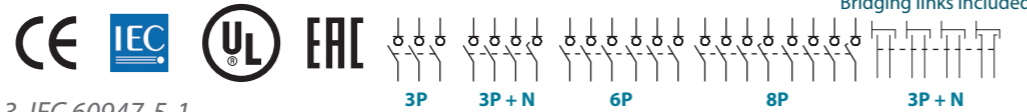


Auxiliary contacts technical information

Rated insulation voltage	Ui	V	690
Rated thermal current	Ith - Ithe	A	10
Switching capacity	AC15	220-240V	A 2,5
	AC15	380-440V	A 1,5
Rated conditional short-circuit current	kAeff	3	
Max. short circuit protection	gL(gG)	A	10

Connecting capacity		
Solid or stranded cable	mm ²	0,75-2,5
	AWG	14-12
Flexible cable (+ multicore cable end)	mm ²	0,75-2,5 (1,5)
	AWG	18-14

Technical information



According to VDE 0660, IEC 60947-3, IEC 60947-5-1

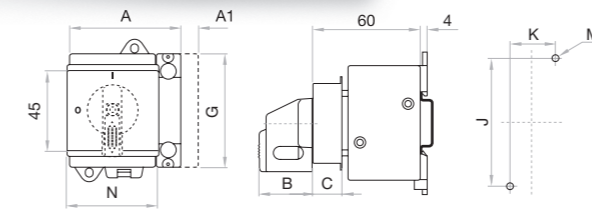
		20	25	40	63	80	125
Rated thermal current	Ith	20	25	40	63	80	125
Rated thermal current enclosed	Ithe	20	25	40	63	80	110
Rated insulation voltage	Ui	690	690	690	690	690	1000
Rated impulse withstand voltage	Uimp	6	6	6	6	6	8
AC rated operational current	Ie	AC21A	20	25	40	63	80
Making capacity	Ieff	3x380-440V	A 160	190	300	370	440
		3x220-240V	A 160	180	250	330	380
Breaking capacity	Ieff	3x380-440V	A 160	180	250	330	380
		3x660-690V	A 80	110	170	190	220
Direct switching motors	AC3	3x400V	A 12	16	30	37	72
		3x220-240V	kW 3	4	7,5	11	22
		3x380-440V	kW 5,5	7,5	15	18,5	37
		3x660-690V	kW 5,5	7,5	15	18,5	30
		3x400V	A 16	20	32	45	85
Main & safety switch	AC23A	3x220-240V	kW 4	5,5	9	15	30
		3x380-440V	kW 7,5	10	16	22	45
		3x660-690V	kW 5,5	7,5	15	18,5	37
Rated conditional short-circuit current	kAeff	10	10	10	10	10	
Max. fuse size	gL(gG)	A 25	35	50	63	80	
Rated short-time withstand current (1sec.)	Icw	A 250	300	500	600	850	
Mechanical life	x10 ³	200	200	200	100	100	
Connecting capacity							
Solid or stranded cable	mm ²	0,5-10		1-25 ^{*(1)}		4-50	
	AWG	20-8 (10)		16-4 (10)		10-0 (10)	
Flexible cable	mm ²	0,5-6		4-16 ^{*(1)}		10-35	
	AWG	20-10		16-6		8-2	
Size of terminal screw		M3,5		M5		M6	
Tightening torque	Nm	0,8-1,7		2-4		3,5-4,5	

According to UL & cUL FILE NO. E123623

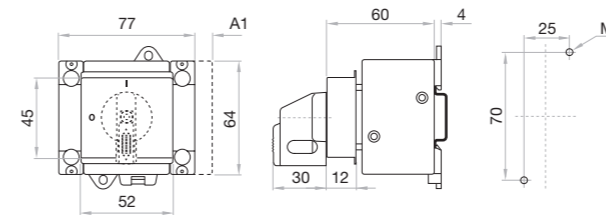
		20	25	40	63	80	125
Rated voltage	V	600	600	600	600	600	600
Ampere-Rating "General use"	A	20	25	40	63	80	125
DOL-Rating 3-phase	HP	110-220V	1	1,5	2	3	5
		220-240V	3	5	5	10	10
		440-480V	7,5	10	10	20	20
		550-600V	10	10	15	25	25
		110-120V	1	1	1	2	2
DOL-Rating 1-phase	HP	200-208V	1	2	3	3	
		220-240V	2	2	3	5	
		Manual Motor Controller	A 40	50	70	90	110
Fuse size (RK5)	Motor Disconnect	A 40	50	50	70	70	
5kA / 600V		Nm 1,2-2,3	1,2-2,3	1,2-2,3	2,8-4	2,8-4	
Tightening torque		lb.Inch 11-20	11-20	11-20	24-35	24-35	

^{*(1)} ZBK63 U stranded 16 mm² / flexible 10 mm²

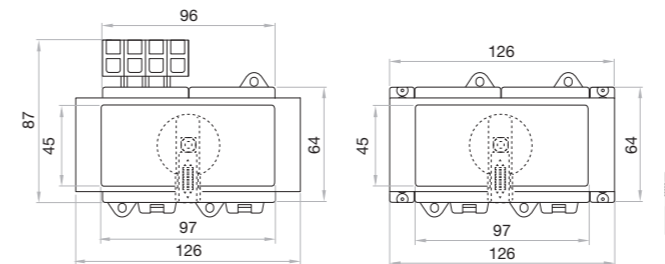
Dimensions (mm)



3P-4P 20-125A

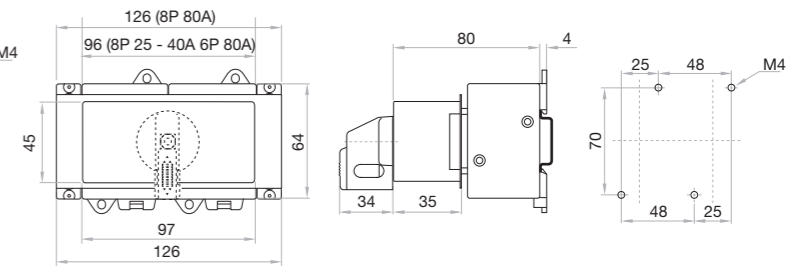


6P 25-40A



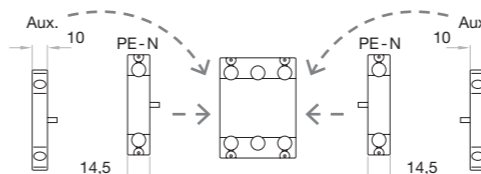
20-40A

63A



8P 25-40A
6P-8P 80A

Auxiliary contacts



Switch

	3P		4P		6P		8P	
	A	A	B	C	G	J	K	N
20-40 A	48	48	30	12	64	70	25	52
63-80 A	48	62,5	30	12	64	70	25	52
125 A	78	78	35	10	85	90	38	78

Changeover

- >> Other options also available on request:
 - Terminal shrouds
 - Changeoveres de 3P