

SELECTION CATALOG

SWITCHGEAR COMPONENTS

Powering reliable switchgear

WENZHOU KINEE ELECTRICAL CO.,LTD

www.kinee.net sandyma@kinee.net

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Electrical
AC Components

AC series components are designed specifically for compact switch cabinets.

AIR CIRCUIT BREAKER

- Overload protection
- Undervoltage protection
- Short circuit protection



AIR CIRCUIT BREAKER

KNW1 Series



Main specifications

- Rated current: 200A~6300A
- Short-circuit breaking capacity: 42kA~120kA (RMS)
- Rated max operating voltage: AC690V and below
- Poles: 3P、4P
- Drawer type and fixed type

Features

- Thicker copper busbars and thicker wires extend service life.
- The controller can automatically switch between 220V and 380V.
- High-conductivity silver contacts offer enhanced conductivity.
- New contact material ensures segmentation capability and wear resistance.

Rated Current In (A)	Rated Voltage Ue (V)	Ultimate Short-Circuit Breaking Capacity Icu (kA)		Service Short-Circuit Breaking Capacity Ics (kA)		Rated Short-Time Withstand Current Icw (kA) (1s)		Arcing Distance (mm)
		400V	690V	400V	690V	400V	690V	
200, 400, 630, 800, 1000	50Hz 400 690	42	25	30	20	30	20	0
400, 630, 800, 1000, 1250, 1600, 2000		80	50	65	40	65	40	
2000, 2500, 2900, 3200		100	65	80	50	80	50	
3200, 3600, 4000		100	65	80	50	80	50	
4000, 5000, 6300		120	80	120	80	120	80	

Parameter	Value
Undervoltage release setting (V)	<20% Un
Under-voltage setting (V)	20%~70% Un
Undervoltage delay time (s)	0-10
Voltage check for closing (with voltage present) (V)	85% Un
Closing time (s)	20-60

Altitude (m)	Power Frequency Withstand Voltage (V)	Max Rated Operating Voltage (V)	Correction Factor for Operating Current	Correction Factor for Circuit Breaker Breaking Capacity
2000	3500	690	1	1
3000	3500	690	0.93	0.93
4000	3000	690	0.88	0.71
5000	2200	560	0.82	0.63

MCCB

- High breaking capacity
- Strong current limiting capability
- Excellent arc extinguishing performance



MOLDED CASE CIRCUIT BREAKER

KNS8X Series

Main specifications

- Rated insulation voltage Ui: 800V
- Uimp: 8kV
- Ue： AC690V 50/60Hz
- Standard IEC/EN 60947-2



KNS8X Series MCCB Selection Table
(Applicable to Power Distribution Protection)

KNS8X	160	N	Mic 5.2B	LS	160	3P	F	FC	Appendix	COM4
Model: KNS8X	Shell frame: 100m, 160m 100, 160, 250, 400, 630	Breaking Capacity: KNS8X 100m/160m: 415V E: 16kA; B: 25kA; F: 36kA; N: 50kA H: 70kA KNS8X 100–630: 415V F: 36kA; N: 50kA; H: 70kA; S: 100kA; L: 150kA; R: 200kA; 690V HB1: 75kA; HB2: 100kA	Mic 5B Protection Selection: LSI (Three-stage protection, optional) SI (Long-delay protection off) LI (Short-delay protection off) LS (Instantaneous protection off) Tripping Unit Types: KNS8X 100m/160m: Thermomagnetic Tripping Unit TM KNS8X 100–630: 100–250A Frame: Thermomagnetic Tripping Unit TM Electronic Tripping Units: Mic 2.2, Mic 5.2B*, Mic 5.2A, Mic 5.2E, Mic 6.2A, Mic 6.2E 400–630A Frame: Thermomagnetic Tripping Unit TM Electronic Tripping Units: Mic 2.3, Mic 5.3B*, Mic 5.3A, Mic 5.3E, Mic 6.3A, Mic 6.3E	Trip Unit Rated Current: KNS8X 100m/160m: 100m Frame: 16A, 25A, 32A, 40A, 50A, 63A, 80A, 100A 160m Frame: 125A, 160A KNS8X 100–630: 100–250A Frame: 16A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A, 200A, 250A 400–630A Frame: 250A, 400A, 500A, 600A, 630A	Poles: 3P (optional) 4P	Installation methods: KNSX8 100m/160m: F: Fixed type (optional) KNSX8 100–630: F: Fixed type (optional) P: Insert type D: Pull-out type	Connection methods: KNS8X 100m/160m: FC: Front-end wiring EvI: Everlink connection KNS8X 100–630: FC: Front-end wiring RC: Rear-end wiring, with various connection accessories available (see catalog for details)	Attachments: KNS8X 100m/160m: OF, SD Multifunction Auxiliary Switch MX/MN Shunt/Undervoltage KNS8X 100–630: MX/MN Shunt/Undervoltage OF/SD/SDE/SDx Multifunction Auxiliary Switch OF/SD/SDE PW Pre-wiring Auxiliary Switch* MT Electric Operating Mechanism ERH/RH Extended Rotary Handle/Rotary Handle FDM Cabinet Door Display Unit IFM Modbus Communication Module IFE Smart Gateway I/O Input/Output Module	Communication or measurement method: KNS8X 100–630: COM1 COM2 COM3 COM4 ZAC (Wireless Communication Auxiliary Switch)*

* New Mic 5.2B and Mic 5.3B electronic trip units, rated current 25-630A, can be added with suffixes: SI (long-delay protection shutdown), LI (short-delay protection shutdown), LS (instantaneous protection shutdown) to indicate any protection shutdown mode, e.g., Mic 5.2B LS.
* New pre-wiring and wireless communication auxiliary switches.

KNS8X SERIES MCCB



KNS8X Series MCCB Selection Table
(Suitable for motor protection)

Model: KNS8X	Trip Unit Types:	Trip Unit Rated Current:	Connection methods:	Attachments:
	KNS8X 100m/160m: Electromagnetic Trip Unit MA KNS8X 100–250A: Electromagnetic Trip Unit MA Electronic Trip Unit Mic 2.2M, Mic 6.2E-M KNS8X 400–630A: Electronic Trip Unit Mic 1.3M, Mic 2.3M, Mic 6.3E-M	KNS8X 100m/160m: KNS8X 100m Frame: 2A, 3.5A, 7A, 12.5A, 25A, 50A, 80A KNS8X 160m Frame: 115A KNS8X 100–630: 100–250A Frame: 2.5A, 6.3A, 12.5A, 25A, 50A, 100A, 150A, 220A 400–630A Frame: 320A, 500A	KNS8X 100m/160m: FC: Front-end wiring EvE: Everlink connection KNS8X 100–630: FC: Front-end wiring RC: Rear-end wiring, with various connection accessories available (see catalog for details)	KNS8X 100m/160m: OF, SD, MX, MN KNS8X 100–630: MX/MN/OF/SD/SDE/SDX OF/SD/SDE PW Pre-wiring Auxiliary Switch MT Electric Operating Mechanism ERH/RH Extended Rotary Handle/Rotary Handle IFM Modbus Communication Module IFE Smart Gateway I/O Input/Output Module EL Residual Current Protection Module/ ELA Residual Current Alarm Module

KNS8X	160m	N	MA	115	3P	F	FC	Appendix	COM4
	Shell frame: 100m, 160m 100, 160, 250, 400, 630	Breaking Capacity: KNS8X 100m/160m: 415V B: 25kA ; N: 50kA ; S: 100kA KNS8X100–630 : 415V F: 36kA ; N: 50kA ; H: 70kA S: 100kA ; L: 150kA ; R: 200kA 690V HB1: 75KA ; HB2: 100KA		Poles: 3P (optional) 4P		Installation Methods: KNS8X 100m/160m: F: Fixed (Optional) KNS8X 100–630: F: Fixed (Optional) P: Insertion D: Pull-out			Communication or measurement method: KNS8X 100–630: COM1 COM2 COM3 COM4 ZAC (Wireless Communication Auxiliary Switch)*

Example: For a 37kW motor with Ie=69A and a calculated short-circuit current of 40kA, the motor circuit configuration is: circuit breaker, contactor, and thermal relay. The circuit breaker option is: KNS8X 100m N MA 80 3P.

MOLDED CASE CIRCUIT BREAKER



KNM1 Series

Main specifications

- Poles: 3P、4P
- Frame current: 63-1250A
- Ue: Up to AC 690 V
- Ui: 800V
- Uimp: 8kV
- Frequency: 50Hz
- Standard: IEC 60947-2

Technical parameters

Frame Size Inm (A)		63		(100)125		(225)250		400		630		800		1250
Poles		3P、4P		2P、3P、4P		2P、3P、4P		3P、4P		3P、4P		3P、4P		3P、4P
Breaking Capacity Level		L	M	L	M	L	M	L	M	L	M	L	M	
Rated Current In (A)		(10, 16, 20, 25, 32, 40) 50, 63		(10、16、20、25、32、40、50、63, 80, 100) 125		(100, 125, 160, 180, 200, 225)250		225, 250, 315, 350, 400		400, 500, 630		630, 700, 800		1000, 1250
Rated Insulation Voltage Ui (V)		690		800										
Rated Operating Voltage Ue (V)		400		400,690										
Ultimate Short-Circuit Breaking Capacity Icu (kA)	AC400V	35	50	35	50	35	50	50	65	50	65	65	75	85
	AC690V	–	–	–		–		–	20	–	20	–	30	25
Service Short-Circuit Breaking Capacity Ics (kA)	AC400V							35	42	35	42	32.5	37.5	50
	AC690V	–	–	–		–		–	10	–	10	–	15	12.5
Operational Performance	Energized	1500				1000		1000				500		500
	De-energized	8500				7000		4000				2500		1000
Arcing Distance (mm)		0		≤50				≤100						

KNM3 Series

All copper contacts

Short circuit protection

Overload protection



Flame retardant protection

Cold and heat resistant

Stable performance

Main specifications

- Poles: 3P, 4P
- Rated current In(A): 10-1600A
- Rated Operating Voltage Ue (AC):690V
- Uimp: 8kV
- Frequency: 50Hz

Features

- High segmentation capability
- Small size
- Short arc distance
- Flame-retardant shell

KNM3 Series Technical Parameters

Model NO.			KNM3-63	KNM3-125		KNM3-250	
Maximum current rating for housing class (A)			63	125		250	
Rated current (InA)			10, 16, 20, 25, 32, 40, 50, 63	16, 20, 25, 32, 40, 50, 80, 100, 125		100, 125, 160, 180, 200, 225, 250	
Poles			3、4	2	3、4	2	3、4
Rated insulation voltage (Ui)			AC690V	AC690V		AC690V	
Rated operating voltage (Ue)			AC400V	AC230V	AC400V	AC230V	AC400V
Rated impulse withstand voltage (Uimp)			6000V				
Arc flying distance (mm)			≤ 50				
Limit short circuit breaking capacity Icu (kA)	400V (415V)	L	35	35		35	
		M	50	50		50	
	690V		-	-	20	20	
Operating short circuit breaking capacity Ics (kA)	400V (415V)	L	22	22		22	
		M	35	35		35	
	690V		-	-	10	10	
operating performance	energized		1000				
	not energized		7000				

Model NO.			KNM3-400		KNM3-630		KNM3-800		KNM3-1250		KNM3-1600	
Maximum current rating for housing class (A)			400		630		800		1250		1600	
Rated current (InA)			225, 250, 315, 350, 400		400, 500, 630		630, 700, 800		800, 1000, 1250		1600	
Poles			3	4	3	4	3	4	3	4	3	4
Rated insulation voltage (Ui)			AC690V		AC690V		AC800V		AC800V		AC800V	
Rated operating voltage (Ue)			AC415V/500/690V						AC400V		AC400V	
Rated impulse withstand voltage (Uimp)			8000V									
Arc flying distance (mm)			≤ 50									
Limit short circuit breaking capacity Icu (kA)	400V (415V)	L	50		50		65		85		85	
		M	85		85							
	690V		20		30		30		-			
Operating short circuit breaking capacity Ics (kA)	400V (415V)	L	35		35		50		65		65	
		M	65		65							
	690V		15		20		20		-			
operating performance	energized		1000				500		500		500	
	not energized		4000				2500		2500		2500	

AC MCB

Miniature circuit breakers

- Overload protection
- Short circuit protection
- Magnetic blowout arc extinguishing



AC MINIATURE CIRCUIT BREAKERS

KNS3-63F6

Function

- Overload protection
- Short circuit protection
- High current limiting capability



Flame-retardant Material

Resistant To Heat And Cold

Strict Quality Inspection

Product Model	KNS3-63F6
Meets standards	IEC60898-1
Rated current (A)	1A、2A、3A；4A、6A、10A、16A、20A、25A、32A、40A、50A，63A
Extreme number	1P、2P、3P，4P
Mechanical life (times)	20000
Electrical life (times)	10000
Reference temperature (°C)	30
Operating ambient temperature (°C)	-30~+75
Maximum cross-sectional area of connecting wire (mm^2)	25

Breaking capacity	
Rated voltage	AC400V
Trip unit type	Type C (5-12) In, Type D (10-20) In
Rated short-circuit breaking capacity	6kA/10kA
Power factor cosΦ	0.65 ~ 0.7

AC MINIATURE CIRCUIT BREAKERS



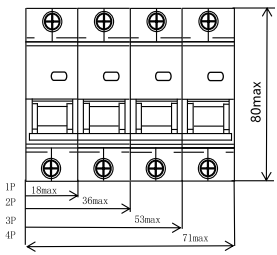
KNS3-63N

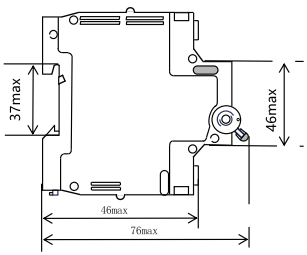
The KNS3-63N series miniature circuit breakers are used for overload and short-circuit protection, and can also be used for the overload and short-circuit protection of electrical equipment.

Function

- Short circuit protection
- Overload protection
- Arc-extinguishing protection

Product Model	KNS3-63N
Meets standards	IEC60898-1
Rated current (A)	1A、2A、3A；4A、6A、10A、16A、20A、25A、32A、40A、50A、63A
Extreme number	1P、2P、3P、4P
Mechanical life (times)	20000
Electrical life (times)	10000
Reference temperature (°C)	30
Operating ambient temperature (°C)	-30~+75
Maximum cross-sectional area of connecting wire (mm^2)	25







AC MINIATURE CIRCUIT BREAKERS

KNS3A-63N

The KNS3A-63N circuit breaker is suitable for low-voltage terminal power distribution in industrial, civil buildings, energy, communications and infrastructure fields.

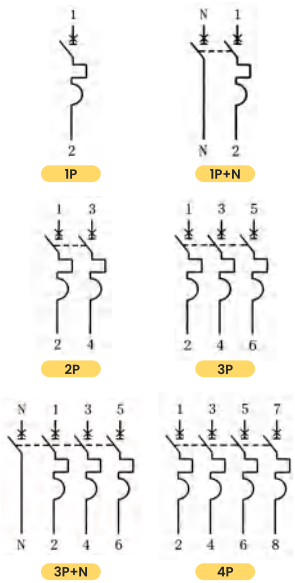


Function

- Short circuit protection
- Overload protection
- Isolation

Parameter	Details
Poles	1P、1P+N、2P、3P、3P+N、4P
Rated Operational Voltage	AC230/240/400/415V (1P)； AC230/240V (1P+N)； AC400/415V (2P, 3P, 3P+N, 4P)
Rated Operational Current	1-63A
Rated Insulation Voltage	500V
Rated Frequency	50/60Hz
Rated Impulse Withstand Voltage	4kV
Rated Short-Circuit Breaking Capacity (Icn)	6kA
Rated Operational Short-Circuit Breaking Capacity (Ics)	6kA
Instantaneous Trip Characteristics	B、C、D
Mechanical Life	20000 cycles
Electrical Life	10000 cycles

Wiring Method



AC MINIATURE CIRCUIT BREAKERS



KNS3-63F7A

Flame-retardant Material

Resistant To Heat And Cold

Strict Quality Inspection

Function

- Short circuit protection
- Overload protection
- Isolation

Product Model	KNS3-63F7A
Meets standards	IEC60898-1
Rated voltage (V)	AC 240/400V（1P、2P），AC 400V(2P、3P、4P)
Rated current (A)	1A、2A、3A；4A、6A、10A、16A、20A、25A、32A、40A、50A，63A
Extreme number	1P、2P、3P，4P
Rated short-circuit breaking capacity Ics	6kA
Rated ultimate short-circuit breaking capacity Icu	6kA
Rated insulation voltage Ui	500V
Rated impulse withstand voltage Uimp	6kW
Instantaneous release characteristics	B、C，D
Mechanical and electrical life (times)	20,000 times
Electrical life (times)	6000 times
Protection level	IP20

RCBO

- Overload protection
- Short circuit protection
- Reliable performance



RCBO



KNS3LE-63N

KNS3LE-63N Residual Current Operated Circuit-Breaker. Suitable for use in distribution networks with AC 50/60 Hz, rated operational voltage up to 400 V, and rated current up to 63A.

Features

- Magnetic blowoutarc extinguishing
- Traffic light indicators, visual window
- Partitioned structural design resists interference

Model	KNS3LE-63N
Pole	1P, 2P, 3P, 4P
Rated Current In(A)	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated Voltage Ue	230V， 400V
Rated Insulation Voltage Ui	400V
Rated Breaking Capacity Icu(kA)	6
Rated remaining connecting and disconnecting capacity I△m	2000A
Rated residual operating current IΔm (mA)	30,100,300
Mechanical Life	20,000 cycles
Electrical Life	10,000 cycles
Maximum breaking time t of rated residual current	0.1s
Wiring capability	Connections are permitted with wires up to 16mm² (when Inm=63A)
Tightening torque	2 N·m (when Inm = 63 A)

KNS3LE-63BO

Main specifications

- Rated Current In(A): 6-63A
- Rated Breaking Capacity Icu: 4.5kA
- Protection Class: IP20
- Rated insulation voltage: 500V



Model	KNS3LE-63BO
Rated current In	6、10、16、20、25、32、40、50，63
Rated breaking capacity Icu	4.5kA
Mechanical life	15,000 times
Electrical life	10000 times
Operating frequency	120 times/hour
Protection level	IP20
Installation method	Guide rail embedded
Wiring method	Terminal blocks with clamps
Wiring capability	Connections are permitted with wires smaller than 16mm² (when Inm=63A).
Tightening torque	2N·m（Inm=63A）
Breaking time I△=I△n	≤0.1s
Rated insulation voltage	500V
Rated impulse withstand voltage Uimp(1.2/50)	4kV
Dielectric test voltage	2kA (50/60Hz, 1 minute)
Rated remaining connecting and disconnecting capacity I△m	2000A
Rated residual operating current I△n	0.01A； 0.03A； 0.05A； 0.1A
Rated residual non-operating current I△no	0.015A； 0.025A； 0.05A

KN40LE-63

D-shaped handle

indicator lights

Small size

Residual current protection



Main specifications

- Rated Current In(A): 6-63A
- Voltage: 230V
- Short circuit breaking capacity: 4500A
- Rated residual operating current: 30mA

Model	Series	Rated current (A)	Rated short-circuit breaking capacity			Trip unit type
			Voltage (V)	Short circuit breaking capacity (A)	cosΦ	
KN40LE-63			230	4500	0.75 ~ 0.8	C、D

Trip unit type	Rated current (A)	Test current (A)	initial state	Agreed Time	Expected results
C、D	≤63	1.13In	Cold state	t≤1h	Non-dismounting
	≤63	1.45In	Hot state	t < 1h	Trip
	≤32	2.55In	Hot state	1s < t < 60s	Trip
	> 32			1s < t < 120s	

AC
CONTACTOR

- Safe to use
- Reliable and durable
- Protect your electrical safety from the source



AC CONTACTOR



KNX2 Series

Main specifications

- Rated operating current: 9-95A
- Rated operating voltage: 220V~690V
- Rated insulation voltage: 690V
- Standards: IEC 60947-1, IEC 60947-4-1

Main Parameter Table 1

Item			KNX2-09(Z)	KNX2-12(Z)	KNX2-18(Z)	KNX2-25(Z)	KNX2-32(Z)
Frame grade[a]			09~12		18	25	32
Rated Impulse Withstand Voltage Uimp (kV)			8				
Rated Duty			Eight-hour workday, continuous workday, short-time workday, intermittent workday (load factor 40%)				
Rated Limited Short-Circuit Current Iq (kA)			50 (400V)				
Arcing Distance(mm)			10				
Limiting Impedance(Ω)			0.05				
Matching Fuse Type			gG20		gG32	gG40	gG50
Matching Fuse Rated Current(A)			20		32	40	50
Coordination Type			Type "2" coordination				
Matching thermal overload relay model			NR2-25				NR2-25、36
Auxiliary circuit parameters		Ith (A)	10				
		AC-15	Ue/Ie：AC380V/400V/0.95A				
		DC-13	Ue/Ie: DC220V/250V/0.15A				
		Uimp (kV)	6				
The type of fuse used in the auxiliary circuit			gG10				
AC coil	50Hz	Pick-up (VA)	≤70	≤70	≤70	≤110	≤110
		Hold(VA)	≤9	≤9	≤9.5	≤14	≤14
		Power(W)	1.8~2.7	1.8~2.7	3~4	3~4	3~4
DC coil		Power(W)	≤9	≤9	≤11	≤11	≤11
Control loop Uimp(kV)			6				
Range of motion			Pull-in voltage: (85%~110%) Us; Release voltage: AC (20%~75%) Us, DC (10%~75%) Us				

KNX2 Series



32 Iron Cores



Thickened silver dots



Copper Core Coil

Main Parameter Table 2

Item			KNX2-40(Z)	KNX2-50(Z)	KNX2-65(Z)	KNX2-80(Z)	KNX2-95(Z)
Frame grade[a]			40~65			80~95	
Rated Impulse Withstand Voltage Uimp (kV)			8				
Rated Duty			Eight-hour workday, continuous workday, short-time workday, intermittent workday (load factor 40%)				
Rated Limited Short-Circuit Current Iq (kA)			50 (400V)				
Arcing Distance(mm)			12				
Limiting Impedance(Ω)			0.05				
Matching Fuse Type			gG63	gG80		gG125	
Matching Fuse Rated Current(A)			63	80		125	
Coordination Type			Type "2" coordination				
Matching thermal overload relay model			NR2-93				
Auxiliary circuit parameters	Ith (A)		10				
	AC-15		Ue/Ie: AC380V/400V/0.95A				
	DC-13		Ue/Ie: DC220V/250V/0.15A				
	Uimp (kV)		6				
The type of fuse used in the auxiliary circuit			gG10				
AC coil	50Hz	Pick-up (VA)	≤300	≤300	≤300	≤300	≤300
		Hold(VA)	≤45	≤45	≤45	≤57	≤57
		Power(W)	6~10	6~10	6~10	6~10	6~10
DC coil		Power(W)	≤22	≤22	≤22	≤22	≤22
Control loop Uimp(kV)			6				
Range of motion			Pull-in voltage: (85%~110%) Us; Release voltage: AC (20%~75%) Us, DC (10%~75%) Us				

KNX2-H Series

Main specifications

- Rated operating current: 9-95A
- Rated operating voltage: 220V~690V
- Rated insulation voltage: 690V
- Standards: IEC 60947-1, IEC 60947-4-1



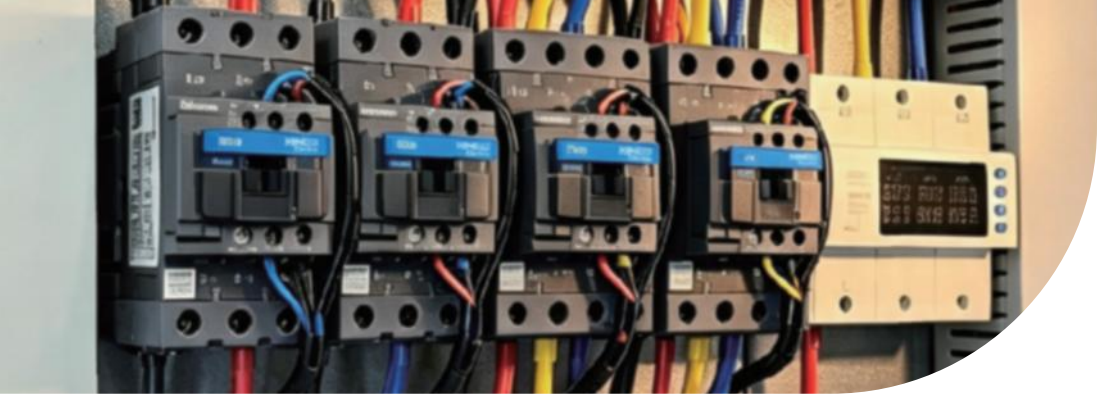
Main Parameter Table 1

Model			KNX2-H09	KNX2-H12	KNX2-H18	KNX2-H25	KNX2-H32
Main circuit characteristics							
Poles			3P				
Rated insulation voltage (Ui)		V	690V				
Rated operating voltage (Ue)		V	380/400, 660/690				
Conventional heating current (Ith), AC-1 rated operating current			20	20	32	40	50
Rated operating current (Ie)	AC-3,380/400V	A	9	12	18	25	32
	AC-3,660/690V	A	6.6	8.9	12	18	22
	AC-4,380/400V	A	3.5	5	7.7	8.5	12
	AC-4,660/690V	A	1.5	2	3.8	4.4	7.5
Rated operating power (Pe)	AC-3 380/400V	kW	4	5.5	7.5	11	15
	AC-3 660/690V	kW	5.5	7.5	10	15	18.5
	AC-4 380/400V	kW	1.5	2.2	3.3	4	5.4
	AC-4 660/690V	kW	1.1	1.5	3	3.7	5.5
Mechanical life		10,000 times	1200			1000	
Electrical life	AC-3	10,000 times	110				90
	AC-4	10,000 times	22				22
Operating frequency	AC-3	times/hour	1200				600
	AC-4	times/hour	300				300
Main circuit terminal wiring capability							
Soft wire	1 wire	mm^2	1..4			1.5..6	
Without terminal blocks	2 wires	mm^2	1.4			1.5..6	
Soft wire	1 wire	mm^2	1.4			1..6	
With terminal blocks	2 wires	mm^2	1.2..5			1..4	
Hard wire	1 wire	mm^2	1..4			1.5..6	1.5..10
Without terminal blocks	2 wires	mm^2	1..4			1.5..	
Tightening torque	N·m		1.2			1.8	
Coil							
Rated control circuit voltage (Us)	50Hz	V	24、36、48、110、127、220/230、240、380/400、415、440				
	50/60H	V	24、36、48、110、127、220/230、240、380/400、415、440				
Allowable control loop voltage	Run	V	Installation tilt angle ±22.5°: 85%~110% Us; Installation tilt angle ±5°: 70%~120%				
	Release	V	Installation tilt angle ±22.5°: 20%~75% Us; Installation tilt angle ±5°: 20%~65%				
Coil power consumption	Attract	VA	60			70	
	Hold	VA	6-9.5			6-9.5	
	Power Consumption	W	1-3			1-3	
Auxiliary contact							
Contact Specifications		A	11				
Agreed Heating Current Ith		A	10				
Rated operating voltage (Ue)	AC	A	380				
	DC	V	220				
Rated control capacity	AC-15	VA	360				
	DC-13	W	33				

Big Silver Contact

All-Copper Coil

32 Iron Cores



Main Parameter Table 2

Model			KNX2-H38	KNX2-H40	KNX2-H50	KNX2-H65	KNX2-H80	KNX2-H95
Main circuit characteristics								
Poles			3P					
Rated insulation voltage (Ui)		V	690V					
Rated operating voltage (Ue)		V	380/400, 660/690					
Conventional heating current (Ith), AC-1 rated operating current			50	50	60	80	125	125
Rated operating current (Ie)	AC-3,380/400V	A	38	40	50	65	80	95
	AC-3,660/690V	A	22	34	39	42	49	49
	AC-4,380/400V	A	14	18.5	24	28	37	44
	AC-4,660/690V	A	8.9	9	12	14	17.3	21.3
Rated operating power (Pe)	AC-3 380/400V	kW	18.5	18.5	30	33	37	45
	AC-3 660/690V	kW	18.5	30	33	37	45	45
	AC-4 380/400V	kW	5.5	7.5	11	15	18.5	22
	AC-4 660/690V	kW	6	7.5	10	11	15	18.5
Mechanical life		10,000 times	1000	900			650	
Electrical life	AC-3	10,000 times	90				65	
	AC-4	10,000 times	22	17			11	
Operating frequency	AC-3	times/hour	600					
	AC-4	times/hour	300					
Main circuit terminal wiring capability								
Soft wire	1 wire	mm²	1.5...6	2.5...25			4...50	
Without terminal blocks	2 wires	mm²	1.5...6	2.5...16			4...25	
Soft wire	1 wire	mm²	1...6	2.5...25			4...50	
With terminal blocks	2 wires	mm²	1...4	2.5...10			4...16	
Hard wire	1 wire	mm²	1.5...10	2.5...25			4...50	
Without terminal blocks	2 wires	mm²	1.5...10	2.5...10			4...25	
Tightening torque	N·m		1.8	5			9	
Coil								
Rated control circuit voltage (Us)	50Hz	V	24、36、48、110、127、220/230、240、380/400、415、440					
	50/60H	V	24、36、48、110、127、220/230、240、380/400、415、440					
Allowable control loop voltage	Run	V	Installation tilt angle ±22.5°: 85%~110% Us; Installation tilt angle ±5°: 70%~120%					
	Release	V	Installation tilt angle ±22.5°: 20%~75% Us; Installation tilt angle ±5°: 20%~65%					
Coil power consumption	Attract	VA	70	200			200	
	Hold	VA	6~9.5	15~20			15~20	
	Power Consumption	W	1~3	6~10			6~10	
Auxiliary contact								
Contact Specifications		A	11					
Agreed Heating Current Ith		A	10					
Rated operating voltage (Ue)	AC	A	380					
	DC	V	220					
Rated control capacity	AC-15	VA	360					
	DC-13	W	33					

AC
CONTACTOR





KNX3-H Series

Main specifications

- Poles: 3P
- Rated operating current: 9~95A
- Rated insulation voltage: 690V
- Standards: IEC 60947-1, IEC 60947-4-1

Features

- Standard auxiliary contacts
- Larger voltage fluctuations
- Superb environmental adaptability

Main Parameter Table

Model			KNX3-H0911	KNX3-H1211	KNX3-H1811	KNX3-H2511	KNX3-H3211	KNX3-H4011	KNX3-H5011	KNX3-H6511	KNX3-H8011	KNX3-H9511
Rated insulation voltage (V)			690									
Main contact	Conventional heating current (A)		20	20	32	50	50	60	80	80	95	95
	380V Rated Operating Current(A)	AC-3	9	12	18	25	32	40	50	65	80	95
		AC-4	3.5	5	7	10	12	16	20	25	32	45
	Controlling the capacity of single-phase motors (KW) -	220V	0.75	1.1	1.5	2.2	3	3.7	5.5	-	-	-
	AC-3 control capacity of three-phase squirrel-cage motor (kW)	220V	2.2	3	4	5.5	7.5	11	15	18.5	22	25
		380V	4	5.5	7.5	11	15	18.5	22	30	37	45
		660V	5.5	7.5	9	15	18.5	30	33	37	45	45
	Rated short-circuit current limit Iq 50kA/AC660V, Coordinated Type 2	Fuse model and specifications RT 16-	00/20		00/32	00/50		00/63	00/80		00/100	
	Operating frequency	AC-4 (times/hour)	300									
		AC-3 (times/hour)	1200				600					
		Mechanical life (cycles/hour)	3600									
	Electrical life	AC-4 (10,000 times)	20					15			10	
		AC-3 (10,000 times)	100				80				60	
	Mechanical life (millions of cycles)		10				8				6	
	Terminal blocks	Root	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2	1 2
		Flexible wire with cold-pressed ends (mm^2)	2.5	2.5	4	4	6	10	6	16	6	16	6	50	25	50	25
		Flexible wire without cold-pressed ends (mm^2)	4	4	6	10	6	10	6	16	10	25	16	25	16	50	35	50	35
		Single solid wire (mm^2)	4	4	6	6		10		10	10	25	-	25	-	50	-	50	-
	Mass (kg)		0.32	0.32	0.49	0.49	0.55	1.07	1.07	1.1	1.44	1.44
Auxiliary Contact	Conventional heating current (A)		10									
	Electrical life (ten thousand cycles)	AC 360VA	100									
		DC 33W	100									
	Minimum load can be connected		6V×10mA									

THERMAL OVERLOAD RELAY

- Motor overload protection
- Phase loss protection
- Starting protection



THERMAL OVERLOAD RELAY

KNR2-D Series





Main specifications

- Setting current: 0.1-0.16A—80-93A
- Rated voltage: 690V
- Protection class: Class 10, 10A
- Ui: 690V
- Standards: IEC/EN 60947-4-1, IEC/EN 60947-5-1

Product Information Sheet

Model	Setting Current	Current Range
KNR2	25	1P6
	↓	
	25:25A	1P6: 1.0-1.6A
	36:36A	P16: 0.1-0.16A
	93:93A	...
		93:80-93A
		P means decimal point

Selection and Parameter Table

Type	Setting range (A)	Rated current(A)	For contactor
KNR2-D25	KNR2-D1301 0.1-0.16A	0.1-0.16A	KNX2-09/38
	KNR2-D1302 0.16-0.25A	0.16-0.25A	KNX2-09/38
	KNR2-D1303 0.25-0.4A	0.25-0.4A	KNX2-09/38
	KNR2-D1304 0.4-0.63A	0.4-0.63A	KNX2-09/38
	KNR2-D1305 0.63-1A	0.63-1A	KNX2-09/38
	KNR2-D1306 1-1.6A	1-1.6A	KNX2-09/38
	KNR2-D1307 1.25-2.0A	1.25-2.0A	KNX2-09/38
	KNR2-D1307 1.6-2.5A	1.6-2.5A	KNX2-09/38
	KNR2-D1308 2.5-4A	2.5-4A	KNX2-09/38
	KNR2-D1310 4-6A	4-6A	KNX2-09/38
	KNR2-D1312 5.5-8A	5.5-8A	KNX2-09/38
	KNR2-D1314 7-10A	7-10A	KNX2-09/38
	KNR2-D1316 9-13A	9-13A	KNX2-12/38
	KNR2-D1321 12-18A	12-18A	KNX2-18/38
	KNR2-D1322 17-25A	17-25A	KNX2-25/38
	KNR2-D1353 23-32A	23-32A	KNX2-32/38
	KNR2-D1355 30-38A	30-38A	KNX2-38
KNR2-D36	KNR2-D2353 23-32A	23-32A	KNX2-32-38
	KNR2-D2355 28-36A	28-36A	KNX2-32-38
	KNR2-D2355 30-40A	30-40A	KNX2-32-38
KNR2-D93	KNR2-D3322 17-25A	17-25A	KNX2-40/95
	KNR2-D3353 23-32A	23-32A	KNX2-40/95
	KNR2-D3355 30-40A	30-40A	KNX2-40/95
	KNR2-D3357 37-50A	37-50A	KNX2-50/95
	KNR2-D3359 48-65A	48-65A	KNX2-65/95
	KNR2-D3361 55-70A	55-70A	KNX2-65/95
	KNR2-D3363 63-80A	63-80A	KNX2-80/95
	KNR2-D3365 80-93A	80-93A	KNX2-95
	KNR2-D4365 80-104A	80-104A	KNC1-F115/150
	KNR2-D4367 95-120A	95-120A	KNC1-F115/150
	KNR2-D5369 110-140A	110-140A	KNC1-F150
	KNR2-D5371 120-150A	115-150A	KNC1-F150

THERMAL OVERLOAD RELAY

KNRD-D Series

Main specifications

- Setting current: 0.1-0.16A—48-65A
- Protection class: Class 10, 10A
- Standards: IEC/EN 60947-4-1
  IEC/EN 60947-5-1



Product Information Sheet

Model	KNRD-D series
Voltage	up to 660V
Current	up to 80A and below circuits
Frequency	AC 50 or 60Hz
Function	thermal protection of AC motors

Product Information Sheet

Product name	Rated current	Setting current
KNRD-D	25	1P6
	↓	↓
	25:25A	1P6: 1.0-1.6A
	65:65A	P16: 0.1-0.16A
	3 Series: 65A	...
		65:48-65A
		P means decimal point

Selection and Parameter Table

Model	Number	Rated current range	Contactors that can be inserted and installed
KNRD-D13	1301	0.1~0.16	D09~D32
	1302	0.16~0.25	D09~D32
	1303	0.25~0.4	D09~D32
	1304	0.4~0.63	D09~D32
	1305	0.63~1	D09~D32
	1306	1~1.6	D09~D32
	1307	1.6~2.5	D09~D32
	1308	2.5~4	D09~D32
	1310	4~6	D09~D32
	1312	5.5~8	D09~D32
	1314	7~10	D09~D32
	1316	9~13	D09~D32
	1321	12~18	D09~D32
	1322	16~24	D25/32
KNRD-D33**/3**	3322 /325	17~25	D40~D65
	3353 /332	23~32	D40~D65
	3355 /340	30~40	D40~D65
	3357 /350	37~50	D50~D65
	3359 /365	48~65	D50~D65

MOTOR CIRCUIT BREAKE

- Adjustable current, setting dial
- Flame-retardant insulating shell
- High standards and high configuration



MOTOR CIRCUIT BREAKE

Technical parameters

Summary of Product Technical Parameters	
Parameter Item	Parameter Value
Number of Poles	3P
Connection Type	AC
Utilization Category	Class AC, compliant with IEC 60947-2
	AC-3, compliant with IEC 60947-4-1
	AC-3e, compliant with IEC 60947-4-1
Network Frequency	50/60 Hz, compliant with IEC 60947-2
Motor Power (kW)	2.2 kW at 400/415 V AC 50/60 Hz
	3 kW at 500 V AC 50/60 Hz
	4 kW at 690 V AC 50/60 Hz
Breaking Capacity	100 kA Icu at 230/240 V AC 50/60 Hz, compliant with IEC 60947-2
	100 kA Icu at 400/415 V AC 50/60 Hz, compliant with IEC 60947-2
	50 kA Icu at 440 V AC 50/60 Hz, compliant with IEC 60947-2
	50 kA Icu at 500 V AC 50/60 Hz, compliant with IEC 60947-2
	3 kA Icu at 690 V AC 50/60 Hz, compliant with IEC 60947-2
Rated Service Short-circuit Breaking Capacity [Ics]	100% at 230/240 V AC 50/60 Hz, compliant with IEC 60947-2
	100% at 400/415 V AC 50/60 Hz, compliant with IEC 60947-2
	100% at 440 V AC 50/60 Hz, compliant with IEC 60947-2
	100% at 500 V AC 50/60 Hz, compliant with IEC 60947-2
	75% at 690 V AC 50/60 Hz, compliant with IEC 60947-2
Control Type	(Push-type) Button
Rated Current [In]	6.3 A
Thermal Overload Protection Setting	4...6.3 A, compliant with IEC 60947-2
Magnetic Trip Current	91 A
Conventional Heating Current [Ith]	6.3 A, compliant with IEC 60947-2
Rated Operating Voltage [Ue]	690 V AC 50/60 Hz, compliant with IEC 60947-
Rated Insulation Voltage [Ui]	690 V AC 50/60 Hz, compliant with IEC 60947-
Rated Impulse Withstand Voltage [Uimp]	6 kV, compliant with IEC 60947-2
Phase Loss Sensitivity	Yes, compliant with IEC 60947-4-1
Isolation Function	Applicable, compliant with IEC 60947-1
Power Consumption per Pole	2.5 W
Mechanical Life	100,000 cycles
Electrical Life	100,000 cycles for AC-3 at 415 V In
	100,000 cycles for AC-3e at 415 V In
Rated Load	Continuous operation, compliant with IEC
Wiring Capacity	Power circuit: Screw-in terminals, 2 cable(s) 1...6 mm² - Solid wire
	Power circuit: Screw-in terminals, 2 cable(s) 1.5...6 mm² - Stranded wire (uninsulated)
	Power circuit: Screw-in terminals, 2 cable(s) 1...4 mm² - Stranded wire (insulated)
Tightening Torque	1.7 N·m via screw-in terminals
Mounting Mode	35 mm DIN rail: Clipped
	Panel: Screw-mounted (with adaptor plate)



KNV2ME14

Main specifications

- Ui: 690V
- Uimp: 6kV
- Electromagnetic Trip Current: 91 A
- Ith: 6.3 A
- Power Consumption per Pole: 2.5 W
- Frequency: 50/60Hz

MOTOR CIRCUIT BREAKE



KNV2PM20



KNV3ME40

Technical parameters

Parameter	Standard	Unit	Value
Model			KNV2P/KNV3M
Utilization Category	IEC947-2		A
	IEC947-4-1		AC-3
Rated Operational Voltage (Ue)	IEC947-2	V	690
Rated Insulation Voltage (Ui)	IEC947-2	V	690
Rated Operational Frequency	IEC947-2	Hz	50/60
Rated Impulse Withstand Voltage (Uimp)	IEC947-2	kV	6
Total Power Dissipation per Pole		W	2.5
Mechanical life (C.O.: Closing/Opening)		C.O.	100000
Electrical life of AC-3 class loads	440V in/2	C.O.	100000
	440V in	C.O.	-
Load Level (Max. Operating Rate)		C.O./h	25
Max. Conventional Thermal Current	IEC947-4-1	A	0.16...80
Rated Load	IEC947-4-1		Continuous load

Main specifications

- Ui: 690V
- Rated Power: 4kW-45kW
- Current: 0.16-80A
- Control Ciruit Voltage: 24V-440V
- Division capacity: 10-100KA
- Frequency: 50/60Hz

Features

- Isolation protection
- Auxiliary connectors available
- Short circuit/overload protection

Automatic Transfer Switch

- Low failure rate
- Easy to maintain
- Reliable performance



AUTOMATIC TRANSFER SWITCH

KNS1 Series



Main specifications

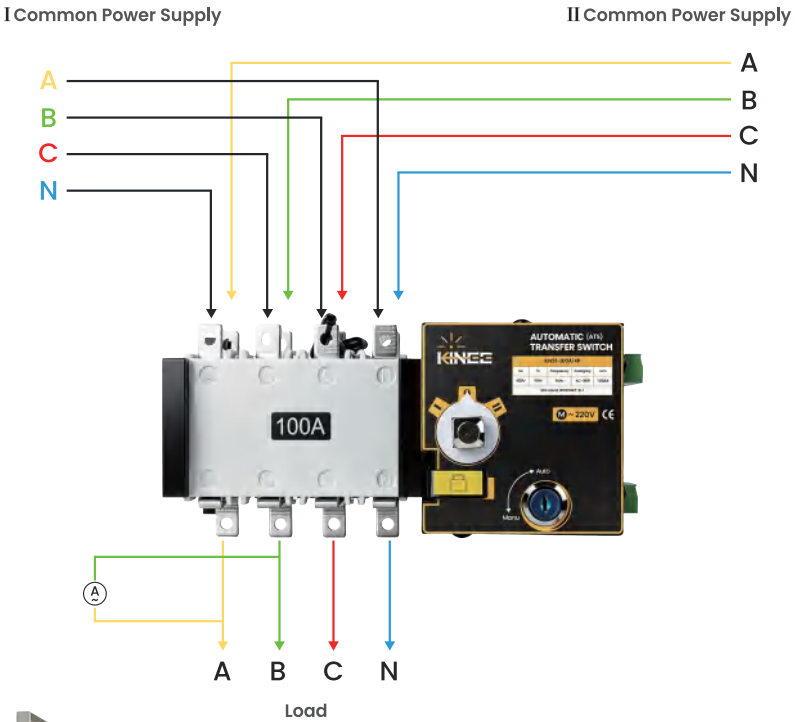
- Rated operating current: 20-3200A
- Rated voltage: AC400V
- Operating voltage: 220V
- Frequency: AC 50Hz

Feature

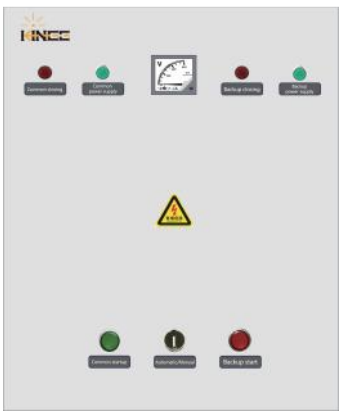
- Manual/Automatic Transmission
- Instant Switching
- Flame-retardant casing

Rated Current		20A	40A	63A	80A	100A	125A	160A	250A	400A	630A	800A	1000A	1250A	1600A
Rated Insulation Voltage Ui		750V								1000V					
Rated Impulse Withstand Voltage Uimp		8kV								12kV					
Rated Operating Voltage Ue		AC400V													
Rated Operating Current Ie	AC-31A	20A	40A	63A	80A	100A	125A	160A	250A	400A	630A	800A	1000A	1250A	1600A
	AC-35A	20A	40A	63A	80A	100A	125A	160A	250A	400A	630A	800A	1000A	1000A	1600A
	AC-33A	20A	40A	63A	80A	100A	125A	160A	250A	400A	400A	630A	800A	800A	1000A
Rated Making Capacity		10Ie													
Rated Breaking Capacity		8Ie													
Rated Limited Short-circuit Current Is		50kA								70kA				100kA	120kA
Rated Short-time Withstand Current Is		7kA						9kA		13kA		26kA		50kA	
Transfer Time I-II or II-I		0.45s								0.6s		1.2s			
Control Voltage		DC24V、48V、110V AC220V													
Motor energy consumption															
Rated power	Startup	300W						325W		335W		400W	440W		
	Normal	55W						62W		74W		90W	98W		
Weight (kg)		7.0	7.2	7.2	7.2	7.5	7.5	8.8	9.0	16.5	17	32	36	40	43

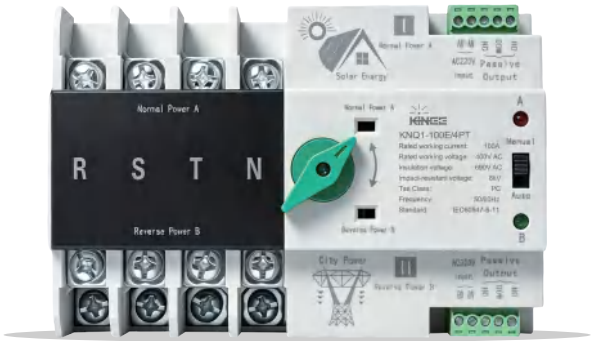
AUTOMATIC TRANSFER SWITCH BOX WIRING DIAGRAM







AUTOMATIC TRANSFER SWITCH



KNQ1 Series

Main specifications

- Rated operating current: 20-3200A
- Rated voltage: AC400V
- Operating voltage: 220V
- Frequency: AC 50Hz

Feature

- Manual/Automatic Transmission
- Instant Switching
- Flame-retardant casing

Specification	100A		
Rated current Ie(A)	16, 20, 25	32,40,50,63	80,100
Insulation voltage Ui	AC690V, 50Hz		
Rated voltage Ue	AC400V, 50Hz		
Classification	PC class: can be manufactured and withstood without short circuit current		
Utilization category	AC-33iB		AC-31B
Pole No.	2P	3P	4P
Weight(kg)	1.7	2.1	2.6
Electrical	Life: 2000 times; Manual operation: 5000 times		
Rated short circuit current Iq	50kA		
Short circuit protection device (fuse)	RT16-00-63A		
Rated impulse withstand voltage	8kV		
Control circuit	Rated control voltage Us: AC220V/50Hz Normal working conditions: 85–110%Us		
Auxiliary circuit	2 relays, each with two sets of contact converter contact capacity: AC220V/50Hz Ie=5y		
Conversion time of contactor	<50ms		
Operation conversion time	<50ms		
Return conversion time	<50ms		
Power off time	<50ms		

Application

- Residential communities
- Commercial buildings
- Shopping malls
- Hospitals and schools



AUTOMATIC TRANSFER SWITCH



KNQ3S-63 Series

Main specifications

- Rated Voltage: 400V
- Rated Current: 6-125A
- Operation Mode: Manual/Automatic
- Electrical rating: CB
- Switching Time: ≤2s

Manual/Automatic Mode

Flame-retardant casing

Signal indication

Parameter	2P	3P	4P
Product Model	KNQ3S-63/2P1	KNQ3S-63/3P1	KNQ3S-63/4P1
Rated Current Ie	63A		
Insulation Voltage Ui	AC690V 50/60Hz		
Rated Voltage Ue	AC230V	AC400V	AC400V
Grade	CB Class		
Pole	2P	3P	4P
Rated impulse withstand voltage	4KV		
Rated short circuit making capacity Icm	6KA		
Rated short circuit breaking capacity Icn	4.5KA		
Electrical Life	2000times		
Mechanical Life	5000times		
Controller	Type A(basic type)		
Control Circuit Us	AC230V 50/6Hz		
Operating transfer time (no time delay)	≤3s		



INDICATOR LAMP

Main specifications

- Mounting hole diameter: 22 mm
- Measure voltage: AC 50V-500V
- Rated power: 0.5W



Voltage indicator light

Color

Main specifications

- Rated current: ≤ 20mA
- Brightness: ≥ 100cd/m²
- Frequency: 50~60Hz



Flash Buzzer

Color

Main specifications

- Rated current: ≤ 20mA
- Multiple voltage options: 12-380V
- Rated power: 0.5W



Signal Light

Color

PUSH BUTTON



Flat push button

- Applicable below 10A
- Self-resetting/self-locking
- 1NO1NC

Color



Flat Illuminated push button

- Applicable below 10A
- With light/self-resetting
- 1NO1NC

Color



Selector switch

- Applicable below 10A
- Two gears/three gears
- 1NO1NC/2NO2NC



Illuminated rotary switch

- Applicable below 10A
- Self-locking
- 1NO1NC

Color



Two-button illuminated button

- Applicable below 10A
- Self-reset/with light
- 1NO1NC/2NO2NC



Knob switch with key

- Applicable below 10A
- Second gear/third gear
- 1NO1NC



Emergency stop self-locking button switch

- Applicable below 10A
- Self-locking
- 1NO1NC



Emergency push button

- Applicable below 10A
- Self-locking
- 1NO1NC

TERMINAL SERIES

Professional Terminal Manufacturer



Terminal Series



SC(JGK) Series Peephole
Copper Connecting Terminal



JM(JGY) Series Peephole Triangular
Copper Connecting Terminal



DIN AUS Series Copper
Connecting Terminal



JG Series Copper
Connecting Terminal



DT Series Copper Connecting
Terminal



DL Series Aluminium
Connecting Terminal



GT-1 Series Copper
Connecting Tube(Passing Through)



GL-1 Series Aluminium
Connecting Tube (Passing Through)



GTY Series Copper Connecting Tube



Copper-Aluminium GTL Series
Connecting Tube



SC(JGA)/SC(Lengthen) Series
Copper Connecting Terminal



SC(JGB) Series Bell Mouth Copper
Connecting Terminal



AUS(Thickened) Series Copper
Connecting Terminal



DT(G) Series Copper
Connecting Terminal



DT-2 (2 Holes) Series
Copper Connecting Terminal



DL-2 (2 Holes) Series
Aluminium Connecting Terminals



GT-2 Series Copper Connecting
Tube (Oil-Plugging)



GL-2 Series Aluminium Connecting
Tube(Oil -Plugging)



GLB Series Aluminum Connecting Tube



GTLZ Series Copper - Aluminum
Pin Terminal

Terminal Series



DTL-1 Series Copper-Aluminium Connecting Terminal



DTL-2 Series Copper-Aluminium Connecting Terminal



CPTAU Series Pre-Insulated Copper-Aluminium Terminal



BLMT Series Aluminum Alloy Shear Bolted Connecting Terminal



APG Series Aluminium Parallel Groove Clamp



WCJB Series Wintersweet Type Red Copper Connecting Clamp



CCT Series Copper Connecting Clamp



OT Series Copper Passing Through Terminal



C45 Series Copper Pin Terminal



DTLC / GTLA/GTLC Series Copper-Aluminium Pin Terminal



DTLZ Series Small Head Copper-Aluminium Connecting Terminal



DTL-2-F Series Copper-Aluminium Connecting Terminal



MJPT Series Pre-Insulated Cable Sleeve



AMB Series Aluminum Alloy Shear Bolted Connecting Tube



CAPG Series Copper -Aluminum Parallel Groove Clamp



WCJC Series Wintersweet Type Brass Connecting Clamp



T/J Series Copper Bolt Clamp



DT-Z Series Small Head Copper Connecting Terminal



PTNB Series Copper Pin Terminal



SM / SE Series Busbar Insulator

INSULATED TERMINALS

All copper tin-plated



INSULATED TERMINALS

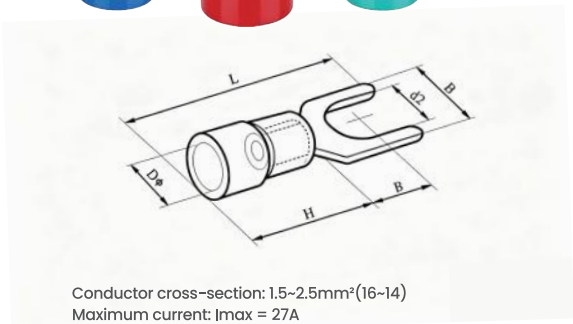
SPADE TERMINALS



Features

- Made entirely of copper, with strong electrical conductivity
- Tin-plated surface for rust and corrosion resistance
- One-piece molding, press-fit without cracking

Color



Conductor cross-section: 0.5~1.5mm² (22-16)
Maximum current: Imax = 9A

Item No.	American Bolt Size	Bolt Hole Diameter d2	Size					Color
			B (mm)	L (mm)	F (mm)	H (mm)	Dφ (mm)	
SV1.25-3	#4	3.2mm	5.7	21.2	6.5	10	4.3	Red
SVS1.25-3.5	#6	3.7mm	5.7	21.2	6.5			
SV1.25-3.5	#6	3.7mm	6.4	21.2	6.5			
SVS1.25-4	#8	4.3mm	6.4	21.2	6.5			
SVM1.25-4	#8	4.3mm	7.2	21.2	6.5			
SV1.25-4	#8	4.3mm	8.1	21.2	6.5			
SVS1.25-5	#10	5.3mm	8.1	21.2	6.5			
SV1.25-5	#10	5.3mm	9.5	21.2	6.5			
SVS1.25-6	1/4	6.5mm	9.5	21.2	6.5			
SV1.25-6	1/4	6.5mm	12	21.2	11			

Conductor cross-section: 1.5~2.5mm²(16~14)
Maximum current: Imax = 27A

Item No.	American Bolt Size	Bolt Hole Diameter d2	Size					Color
			B (mm)	L (mm)	F (mm)	H (mm)	Dφ (mm)	
SV2-3	#4	3.2mm	5.7	21.2	6.5	10	4.9	Blue
SVS2-3.5	#6	3.7mm	5.7	21.2	6.5			
SV2-3.5	#6	3.7mm	6.0	21.2	6.5			
SVS2-4	#8	4.3mm	6.4	21.2	6.5			
SVM2-4	#8	4.3mm	7.2	21.2	6.5			
SV2-4	#8	4.3mm	8.1	21.2	6.5			
SVS2-5	#10	5.3mm	8.1	21.2	6.5			
SV2-5	#10	5.3mm	9.5	21.2	6.5			
SVS2-6	1/4	6.5mm	9.5	21.2	6.5			
SV2-6	1/4	6.5mm	12.0	21.2	11			

Conductor cross-section: 2.5~4mm²(14~12)
Maximum current: Imax = 37A

Item No.	American Bolt Size	Bolt Hole Diameter d2	Size					Color
			B (mm)	L (mm)	F (mm)	H (mm)	Dφ (mm)	
SV3.5-4	#8	4.3mm	8	24.8	7	12.5	6.2	Black
SV3.5-5	#10	5.3mm	8	24.8	7			
SV3.5-6	1/4	6.5mm	12	24.8	12.1			

Conductor cross-section: 4~6mm²(12~10)
Maximum current: Imax = 48A

Item No.	American Bolt Size	Bolt Hole Diameter d2	Size					Color
			B (mm)	L (mm)	F (mm)	H (mm)	Dφ (mm)	
SV5.5-3.5	#6	3.7mm	8.3	25.2	7.5	13.0	6.7	Yellow
SV5.5-4	#8	4.3mm	8.3	25.2	7.5			
SV5.5-4	#8	4.3mm	9.0	25.2	7.5			
SV5.5-5	#10	5.3mm	9.0	25.2	7.5			
SV5.5-6	1/4	6.4mm	9.0	25.2	7.5			
SV5.5-6	1/4	6.4mm	12.0	30.0	11.5			
SV5.5-8	5/16	8.4mm	14.0	31.2	12.0			

INSULATED TERMINALS

Color



PIN TERMINALS

Features

- PVC sheath, insulating and protecting against electric shock
- The crimping is firm and will not fall off.
- Thickened pure copper, tin-plated surface for oxidation resistance

Conductor cross-section: 0.5~1.5mm² (22-16)
Maximum current: Imax=19A

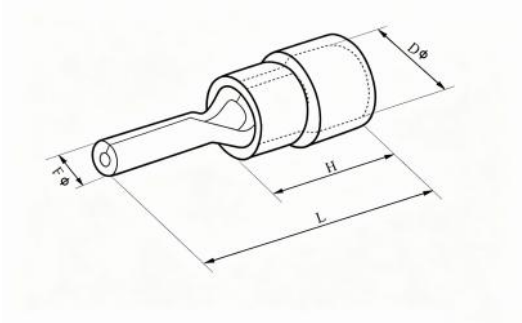
Item No.	Size				Color
	Fϕ (mm)	L (mm)	H (mm)	Dϕ (mm)	
PTV1.25-9	1.9	19.0	10.0	4.3	Red
PTV1.25-10	1.9	20.0			
PTV1.25-12	1.9	22.0			
PTV1.25-13	1.9	23.0			

Conductor cross-section: 0.5~2.5mm² (16-14)
Maximum current: Imax=27A

Item No.	Size				Color
	Fϕ (mm)	L (mm)	H (mm)	Dϕ (mm)	
PTV2-9	1.9	19.0	10.0	4.3	Blue
PTV2-10	1.9	20.0			
PTV2-12	1.9	22.0			
PTV2-13	1.9	23.0			

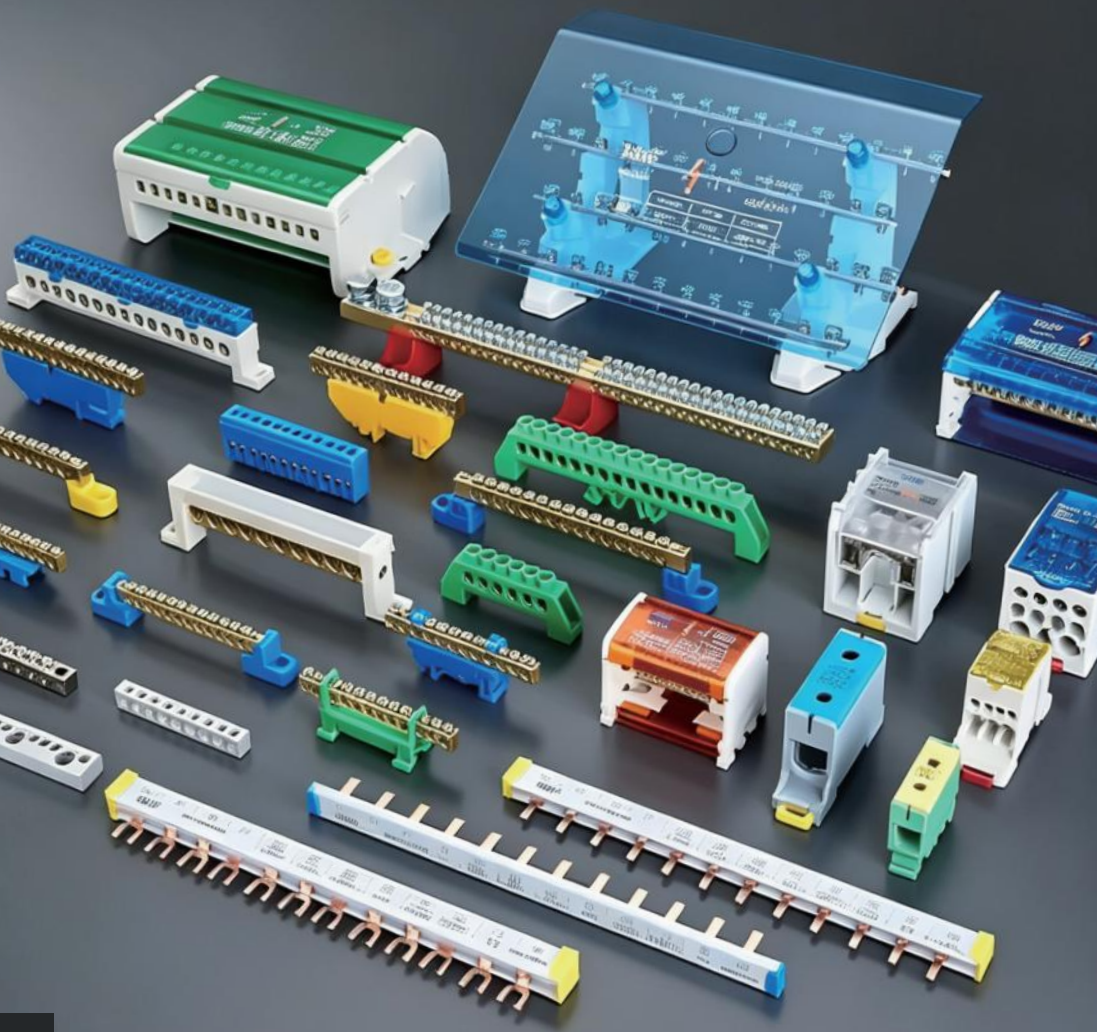
Conductor cross-section: 0.5~1.5mm² (16-14)
Maximum current: Imax=27A

Item No.	Size				Color
	Fϕ (mm)	L (mm)	H (mm)	Dϕ (mm)	
PTV5.5-13	2.8	25.5	12.5	6.7	Yellow



KINEE

RELIABLE CONNECTOION COMES FROM PROFESSIONAL



CONNECTOR BOX SERIES

UKK SERIES

Features

- PA Nylon 66, flame retardant grade 94V-2
- Solvent-resistant, good impact resistance.
- Operating temperature: -30°C to 110°C
- Brass and iron screws with zinc-plated surface
- Applicable voltage range: 250–450 V

Color

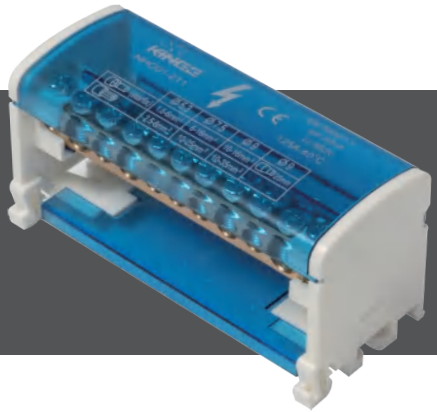


Main parameter table

Model	ICE Current / Voltage A/V	Cross-sectional Area mm² x Number of Holes		Dimensions L*W*H
UKK80	85A/690V	6 to 16	×1 In	30×69×49
		2.5 to 6	×4 Out	
		2.5 to 16	×2 Out	
UKK125	150A/690V	10 to 35	×1 In	29×77×46
		6 to 16	×4 In	
		2.5 to 16	×6 Out	
UKK160	200A/690V	10 to 35	×1 In	29×77×46
		6 to 16	×4 In	
		2.5 to 16	×6 Out	
UKK250	255A/690V	35 to 120	×1 In	47×96×50
		6 to 35	×2 Out	
		2.5 to 16	×5 Out	
		2.5 to 10	×4 Out	
UKK400	335A/690V	95 to 185	×1 In	47×96×50
		6 to 35	×2 Out	
		2.5 to 16	×5 Out	
		2.5 to 10	×4 Out	
UKK500	520A/690V	4×15.5×0.8 to 8×24 Square Hole Size	×1 In	49×96×50
		6 to 35	×2 Out	
		2.5 to 16	×5 Out	
		2.5 to 10	×4 Out	

CONNECTOR BOX SERIES

NH01 SERIES

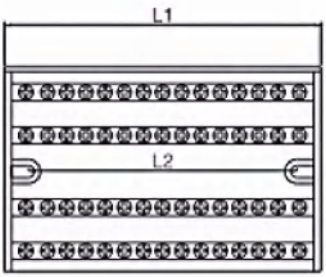


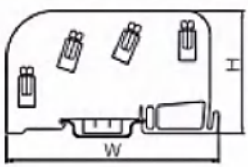
Features

- PA, Polyamide 66, 94-2 grade.
- Inflaming retarding
- Working Temperature: -30°C to 110 C
- Brass. Screw is iron plated zinc
- Voltage:250-450V

Main parameter table

Model	Spec. W x h	Rated Current (A)	Rated Voltage (V)	L1 (mm)	L2 (mm)	H (mm)	W (mm)	Max. Section	Hole Qty	Plastic Material
NHC-207	6.5 x 12	125A	500V	67	48	50	45	35mm²	2 x 7	PA
NHC-211	6.5 x 12	125A	500V	100	86	50	45	35mm²	2 x 11	PA
NHC-215	6.5 x 12	125A	500V	134	118	50	45	35mm²	2 x 15	PA
NHC-407	6.5 x 12	125A	500V	67	48	50	90	35mm²	4 x 7	PA
NHC-411	6.5 x 12	125A	500V	100	86	50	90	35mm²	4 x 11	PA
NHC-415	6.5 x 12	125A	500V	134	118	50	90	35mm²	4 x 15	PA
NHC-413	8 x 17	160A	500V	180	168	73	138	50mm²	4 x 13	PA





WATERPROOF DISTRIBUTION BOX

SK SERIES (2-36 WAY)



Features

- Insulating flame-retardant housing
- Built-in guide rails and copper busbars
- IP65 waterproof and dustproof
- Transparent protective window cover

HT SERIES (2-24 WAY)



Features

- Complete specifications
- IP65 waterproof grade
- Buckle design



HA SERIES (4-24 WAY)



Features

- Safety lock design
- Reserve holes on he back
- IP65 waterproof and dustproof

Anti-corrosion & rust prevention

Strong impact resistance

High and low temperature resistance

TSM SERIES (4-36 WAY)

Features

- View window
- IP44 waterproof grade
- Full range of specifications





WENZHOU KINEE ELECTRICAL CO.,LTD

Room 101, Building 31, Wenzhou Cultural and Creative Technology Industrial Park, No. 706 Yanyun Road, Kunpeng Street, Wenzhou Marine Economic Development Demonstration Zone, Wenzhou City, Zhejiang Province

+86 15005778620 www.kinee.net sandyma@kinee.net