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PRODUCT CATALOGUE

PROFESSIONAL MANUFACTURER OF INDUSTRIAL CONTROL COMPONENTS

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XLDQ3 Dual power automatic transfer switch series

The XLDQ3 series dual power automatic transfer switch designed and produced by our company is a specialized product developed to meet the needs of customers. This product has two conversion functions: auto-transfer and auto-restoring, auto-transfer and nonauto-restoring. It simultaneously monitors the three-phase voltage of two power supplies in three-phase four-wire power grid. When any phase experiences overvoltage, undervoltage or phase loss, it can automatically transfer from abnormal voltage to normal power supply; the product used in the power grid-generation system can also send out power generation command. It is a dual power automatic transfer switch with complete performance, high safety and reliability, high degree of automation and wide range of application.

The product complies with the GB/T 14048.11 standard.

XLDQ3

Dual power automatic transfer switch



Rated operating voltage	AC400V
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
No. of poles	3P/4P
Controller model	A/B/C
Operation mode	Auto/manual
Conversion mode	Auto-transfer and auto-restoring/auto-transfer and nonauto-restoring
Dimension Length×Width×Height (mm)	248×125×125mm (same size for 3P and 4P)
Mounting (hole) size Length×Width (mm)	229×113mm (same size for 3P and 4P)
Installation method	Vertical

XLDQ3NX Dual power automatic transfer switch series

The newly designed XLDQ3NX-A/B/C/D series dual power automatic transfer switch is based on in-depth research and development of power transfer switch technology. It has been redesigned in various aspects such as product structure, control unit, execution unit, electromagnetic compatibility, etc., completely subverting the design concept of traditional dual power automatic transfer switch. This is a dual power automatic transfer switch with smallest volume, which has compact product structure and is easy for installation; modular design improves the continuity of product power supply and has better energy-saving effects than other similar products.

The product complies with the GB/T 14048.11 standard.

XLDQ3NX

Dual power automatic transfer switch



Rated operating voltage	AC400V
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
No. of poles	3P/4P
Controller model	A/B/C/D
Operation mode	Automatic/manual
Conversion mode	Auto-transfer and auto-restoring/auto-transfer and nonauto-restoring/Power grid-generator
Dimension Length×Width×Height (mm)	3P: 212.5×125×121mm 4P: 248×125×121mm
Mounting (hole) size Length×Width (mm)	3P: 193.5×113mm 4P: 229×113mm
Installation method	Vertical

XLDQ3NM Dual power automatic transfer switch series

The XLDQ3NM-A/B/D intelligent dual power automatic transfer switch adopts international industrial design concepts, it comprehensively improves the traditional molded case dual power automatic transfer switch from product structure, visual appearance, human-machine engineering, control circuit and other aspects, making it comparable to international first-class products in quality and extremely cost-effective. The product has normal and backup supply voltage measurement and display functions, which can save users the cost of cabinet type voltage measurement and display equipment, and integrate functions such as generator automatic start and stop, fire remote emergency control, remote communication, etc., with a higher degree of intelligence.

The product complies with the GB/T 14048.11 standard.

XLDQ3NM
Dual power automatic
transfer switch



Frame current	125A	250A	400A	630A	800A
Rated operating voltage	AC400V				
Rated operating current	80A,100A,125A	125A,160A 180A,200A 225A,250A	250A,315A 350A,400A	500A,630A	800A
No. of poles	3P/4P				
Controller model	A/B/D				
Operation mode	Automatic/manual				
Conversion mode	Auto-transfer and auto-restoring/auto-transfer and nonauto-restoring/Power grid-generator				
Dimension Length×Width×Height (mm)	3P: 390×240×145 4P: 420×240×145 (125 type)				
Mounting (hole) size Length×Width (mm)	3P: 357×220 4P: 387×220 (125 type)				
Installation method	Vertical				

XLDS2 Dual power automatic transfer switch series

The XLDS2 series automatic transfer switch is mainly used for one main and one backup or mutual backup power transfer system in power distribution or motor network with frequency of AC 50Hz, operating voltage of AC230V/AC400V and rated current from 16A to 3200A, as well as load transfer between mains power and generator set. It can also be used for isolation of circuit that is not frequently connected or disconnected.

The product is widely used in the transmission and distribution system and automation system of important power supply places such as fire protection, hospitals, banks and high-rise buildings that do not allow power outages.

The product complies with the GB/T 14048.11 standard.

XLDS2
Dual power automatic
transfer switch



Rated operating voltage	AC400V	
Frame current	100A, 160A, 250A, 630A	1000A, 1600A, 2000A, 2500A, 3200A
Rated impulse withstand voltage (Uimp)	8kV	
Rated limiting short-circuit current (Iq)	120kA	
Utilization category	AC-33iB (PC class)	AC-32B (PC class)
No. of poles	3P/4P	
Controller model	A/B/C/D/E/F	
Installation method	Vertical and horizontal	

XLDS3 Dual power automatic transfer switch series

The XLDS3 series product belongs to the PC class dual power automatic transfer switch, it's mainly used in two neutral grounded power supply systems with frequency of AC 50Hz, rated voltage of 400V and below and rated operating current up to 630A. It transfers between power supplies to ensure the reliability and safety of power supply due to an abnormality in one power supply.

This automatic transfer switch has "normal power", "backup power" and "two-circuit off" positions, with high making and breaking capacity, which can satisfy the transfer of common loads, as well as transfer of high inductance or large motor load. Meanwhile, because of its high short-term withstand current capacity, it does not require specific SPCD, which does not affect the selectivity in the circuit, and it can also satisfy the application on the large capacity power supply side.

The product complies with the GB/T 14048.11 standard.

XLDS3

Dual power automatic transfer switch



Model	XLDS3-80	XLDS3-125	XLDS3-250	XLDS3-630
No. of poles	3/4	3/4	3/4	3/4
Controller model	B/C/D/E			
Rated operating voltage (V)Ue	400	400	400	400
Rated operating current (A)Ie	16-80	80-125	140-250	315-630
Rated insulation voltage (V)Ui	690	690	690	690
Rated impulse withstand voltage (kV)Uimp	8	8	8	8
Utilization category	AC-33B	AC-33B	AC-33B	AC-33B
Rated short-time withstand current (kA, rms)Icw	10kA(30mS)	10kA(200mS)	10kA(200mS)	25kA(200mS)
Rated short-circuit making capacity (kA peak)Icm	15kA	20kA	30kA	50kA
Rated limiting short-circuit current (kA)Iq	120kA	120kA	120kA	120kA
Rated control supply voltage (V)Us	230V/50Hz	230V/50Hz	230V/50Hz	230V/50Hz
Contact transfer time (s)	0.6	0.6	1	1.5
Number of operation cycles	Power-off	8500	8500	7000
	Power-on	1500	1500	1000
	Total	10000	10000	8000
Dimension(mm) Length×Width×Height	229×115×129	245×130×122	295×175×175	430×272×228
Installation size (mm) Length×Width	212×100	230×113	275×152	400×240
Weight (kg)	2.5	4.3	9	22.5
Installation method	Vertical			

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XLDS5 Dual power automatic transfer switch series

The XLDS5 series product belongs to PC class (excitation type) automatic transfer switch (hereinafter referred to as switch). It's suitable for two neutral grounded power supply systems with frequency of AC 50HZ/60HZ, rated voltage of 400V/415V and below and rated operating current from 16A to 630A. Its unique power monitoring device can distinguish the difference between two power supplies and quickly transfer when the transfer conditions are met, ensuring the reliability and safety of the power supply.

This switch has three positions: "Normal (I) ON", "Backup (II) ON", and "OFF(O)", and can be used for fire linkage and frequent on-off power supply system. It's mainly used in places where power outages are not allowed, such as hospitals, shopping malls, banks, chemical industries, metallurgy, high-rise buildings, military facilities and fire protection.

The product complies with the GB/T 14048.11 standard.

XLDS5

Dual power automatic transfer switch



Model and specification		XLDS5-125	XLDS5-250	XLDS5-630	
No. of poles (P)		2, 3, 4	3, 4	3, 4	
Rated operating current Ie(A)		16, 20, 25, 32, 40, 63, 80, 100, 125	125, 160, 200, 225, 250	250, 315, 400	500, 630
Utilization category		AG-33A, AC-33iA, AG-33B			AC-33iA, AG-33B
Rated operating voltage Ue(V)		AC400V/415V			
Rated insulation voltage Ui(V)		800			
Rated working frequency Hz		50/60Hz			
Rated impulse withstand voltage Uimp(kV)		8			
Rated limiting short-circuit current Iq(kA) (fuse)		120			
Rated control power supply Us(V)		AC230V			
Minimum transfer operation time (ms)		≤ 70	≤ 70	≤ 100	
Number of working positions of contact		II or III	II or III	II or III	
Number of operation cycles	Power-off	10000	10000	10000	
	Power-on	6000	6000	6000	
	Total	16000	16000	16000	
Dimension (mm) Length×Width×Height		238X140X115	292X190X132	375X285X195	

XLDS2T Dual power automatic transfer switch series

The XLDS2T series product belongs to PC class (three-stage type) automatic transfer switch (hereinafter referred to as switch). It's suitable for power supply system with frequency of AC 50HZ/60HZ, rated voltage of 400V and rated operating current from 16A to 630A. It transfers between power supplies to ensure the reliability and safety of power supply due to an abnormality in one power supply.

This switch has three positions: "Normal (I) ON", "Backup (II) ON", and "OFF(O)", and can be used for fire linkage and frequent on-off power supply system. It's mainly used in places where power outages are not allowed, such as hospitals, shopping malls, banks, chemical industries, metallurgy, high-rise buildings, military facilities and fire protection.

The product complies with the GB/T 14048.11 standard.

XLDS2T

Dual power automatic transfer switch



Model and specification		XLDS2T-125	XLDS2T-250	XLDS2T-630
Rated operating current Ie(A)		16, 20, 25, 32, 40, 50, 63, 80, 100, 125	125, 160, 200, 225, 250	250, 315, 400, 500, 630
Rated supply voltage Us(v)		AC230V		
Rated insulation voltage Ui(M)		690V		
Rated impulse withstand voltage Uimp(kV)		8kV		
Rated short-time making capacity Icm (KA peak)		17kA		26kA
Rated limiting short-circuit current Iq		100kA		
Contact transfer time (s)		0.7s	0.9s	1.2s
Transfer operation time (s)		1.4s	2.0s	2.5s

Surge protective device series

Overview

The SP1 series surge protective device is suitable for power supply system such as TT, IT, TN-S, TN-C, TN-C-S with AC 50/60Hz, 230/400V and below.

It's generally installed in the low-voltage main distribution cabinet of building incoming line.

The product complies with the GB/T 18802.11 standard.

SP1-D
Surge protective device



Protection grade	Grade 3							
Rated operating voltage(Un)	230V/400V							
Nominal discharge current In(8/20μs)	5kA				10kA			
Maximum discharge current I _{max} (8/20μs)	10kA				20kA			
Maximum continuous operating voltage (U _c)	275V	320V	385V	420V	275V	320V	385V	420V
Protection level (U _p)kV	< 1.0	< 1.2	< 1.2	< 1.2	< 1.2	< 1.5	< 1.5	< 1.5
Leakage current (75%U _c 1mA)	< 20μA							
Test class	Class II							
Protection level	IP20							
Recommended fuse or circuit breaker	10A~16A							
Installation method	35mm standard DIN rail							
No. of poles	1P		2P		3P		4P	
Outline and installation size (mm)	90×18×67		90×36×67		90×54×67		90×72×67	

SP1-C
Surge protective device



Protection grade	Grade 2							
Rated operating voltage(Un)	230V/400V							
Nominal discharge current In(8/20μs)	20kA							
Maximum discharge current I _{max} (8/20μs)	40kA							
Maximum continuous operating voltage (U _c)	275V	320V	385V	420V	440V			
Protection level (U _p)kV	< 1.5	< 1.6	< 1.8	< 2.0	< 2.2			
Leakage current (75%U _c 1mA)	< 20μA							
Test class	Class II							
Protection level	IP20							
Recommended fuse or circuit breaker	40A~63A							
Installation method	35mm standard DIN rail							
No. of poles	1P		2P		3P		4P	
Outline and installation size (mm)	90×18×67		90×36×67		90×54×67		90×72×67	

SP1-B
Surge protective device



Protection grade	Grade 1												
Rated operating voltage(Un)	230V/400V												
Nominal discharge current In(8/20μs)	30kA				40kA				60kA				
Maximum discharge current Imax(8/20μs)	60kA				80kA				100kA				
Maximum continuous operating voltage (Uc)	320V	385V	420V	440V	320V	385V	420V	440V	320V	385V	420V	440V	
Protection level (Up)kV	<2.0	<2.2	<2.2	<2.4	<2.2	<2.5	<2.5	<2.7	<2.5	<2.5	<3.0	<3.2	
Leakage current (75%Uc1mA)	< 20μA												
Test class	Class II												
Protection level	IP20												
Recommended fuse or circuit breaker	40A~63A												
Installation method	35mm standard DIN rail												
No. of poles	1P				2P				3P				4P
Outline and installation size (mm)	90×27×67				90×54×67				90×81×67				90×108×67

SP1-NPE
Surge protective device



Rated operating voltage(Un)	230V/400V					
Nominal discharge current In(8/20μs)	5kA	10kA	20kA	30kA	40kA	60kA
Maximum discharge current I _{max} (8/20μs)	10kA	20kA	40kA	60kA	80kA	100kA
Maximum continuous operating voltage (Uc)	255V					
Protection level (Up)kV	< 1.0	< 1.1	< 1.2	< 1.5	< 1.7	< 2.0
Leakage current (75%Uc1mA)	< 20μA					
Test class	Class II					
Protection level	IP20					
Recommended fuse or circuit breaker	10~16A, 40A~63A					
Installation method	35mm standard DIN rail					
No. of poles	1P+N			3P+N		
Outline and installation size (mm)	90×36×67, 90×54×67			90×72×67, 90×108×67		

SP7
Surge protective device



Rated operating voltage(Un)	230V/400V							
Nominal discharge current In(8/20μs)	40kA		50kA		60kA		100kA	
Maximum discharge current I _{max} (8/20μs)	80kA		100kA		120kA		160kA	
Maximum continuous operating voltage (Uc)	385V	420V	385V	420V	385V	420V	385V	420V
Protection level (Up)kV	< 2.4	< 2.5	< 2.5	< 2.8	< 2.8	< 3.0	< 3.0	< 3.5
Leakage current (75%Uc1mA)	< 20μA							
Test class	Class II							
Protection level	IP20							
Recommended fuse or circuit breaker	50A, 63A, 100A							
Installation method	35mm standard DIN rail							
No. of poles	1P		2P		3P		4P	
Outline and installation size (mm)	90×36×64		90×72×64		90×108×64		90×144×64	

SP9-I
Surge protective device



Rated operating voltage (Un)	230V/400V									
Nominal discharge current In(8/20μs)	50kA				50kA				50kA	
Impulse current I _{imp} (10/350μs)	15kA				25kA				50kA	
Maximum continuous operating voltage (Uc)	275V	320V	385V	440V	275V	320V	385V	440V	275V	385V
Voltage protection level (Up)kV	< 1.5	< 1.6	< 2.0	< 2.2	< 1.8	< 2.0	< 2.2	< 2.4	< 2.3	< 2.5
Maximum continuous operating voltage (Uc)	385V									
Test class	Class I									
Protection level	IP20									
Installation method	35mm standard DIN rail									
No. of poles	1P		2P		3P		4P			
Outline and installation size (mm)	90×36×64		90×72×64		90×108×64		90×144×64			

SP5
Surge protective device



Rated operating voltage(Un)	230V/400V
Nominal discharge current In(8/20μs)	5kA, 10kA, 20kA, 30kA, 40kA
Maximum discharge current I _{max} (8/20μs)	10kA, 20kA, 40kA, 60kA, 80kA
Maximum continuous operating voltage (Uc)	275V, 320V, 385V, 460V
Protection level (Up)kV	< 1.0 < 1.2 < 1.2 < 1.5 / < 1.2 < 1.3 < 1.5 < 1.8 / < 1.5 < 1.5 < 1.8 < 2.0 / < 1.6 < 1.8 < 2.0 < 2.2 / < 1.8 < 2.0 < 2.2 < 2.4
Leakage current (75%Uc1mA)	< 20μA
Test class	Level II
Protection level	IP20 level
Recommended fuse or circuit breaker	10A~63A
Installation method	35mm standard card rail
No. of poles	1P, 2P, 3P, 4P
Outline and installation size (mm)	91×18×71, 91×36×71, 91×54×71, 91×72×71

SP5-DC
PV surge protective device



Rated operating voltage(Un)	230V/400V
Nominal discharge current In(8/20μs)	20kA
Maximum discharge current I _{max} (8/20μs)	40kA
Maximum continuous operating voltage (Uc)	600V, 1000V, 1500V
Protection level (Up)kV	< 2.4, < 3.2, < 3.5
Leakage current (75%Uc1mA)	< 20μA
Test class	Level II
Protection level	IP20 level
Recommended fuse or circuit breaker	40A
Installation method	35mm standard card rail
No. of poles	1P
Outline and installation size (mm)	91×36×71 (2P) , 91×54×71 (3P)

SP7ZN
Intelligent surge protective device



Rated operating voltage(Un)	230V/400V
Nominal discharge current In(8/20μs)	20kA, 30kA, 40kA, 50kA, 60kA
Impulse current I _{imp} (10/350μs)	40kA, 60kA, 80kA, 100kA, 120kA
Maximum continuous operating voltage (Uc)	275V, 320V, 385V, 440V
Voltage protection level (Up)kV	< 1.8~ < 2.5
Leakage current (75%Uc1mA)	< 20μA
Test class	Level II
Protection level	IP20 level
Recommended fuse or circuit breaker	10A~100A
Installation method	35mm standard card rail
No. of poles	2P, 3P, 4P
Outline and installation size (mm)	96×90×68 (2P) , 144×90×68 (3P, 4P)

XLPS1
Onboard surge protective device



Rated operating voltage (Un)	230V/400V
Nominal discharge current In(8/20μs)	30kA
Impulse current I _{imp} (10/350μs)	6kA
Maximum continuous operating voltage (Uc)	275V, 385V
Protection level (Up)kV	≤ 2.0
Test class	≤ 50ms
Installation method	Class I, Class II
No. of poles	PCB onboard
Outline and installation size (mm)	42.5×18×33.5

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XLPS2

Onboard surge protective device



Rated operating voltage (Un)	230V/400V
Nominal discharge current In(8/20μs)	10kA
Maximum discharge current Imax(8/20μs)	20kA
Maximum continuous operating voltage (Uc)	275V, 385V
Protection level (Up) kV	±1.5
Leakage current (75%Uc1mA)	< 20μA
Test class	Class II
Installation method	PCB onboard
Outline and installation size (mm)	35×14×26.5

XLSCB

Surge protective device



Non-trip impulse current Ie(8/20μs)	10kA, 20kA, 40kA, 60kA, 80kA, 100kA, 120kA, 160kA
Non-trip impulse current Ie(10/350μs)	15kA, 25kA
Rated operating voltage Ue	230/400VAC
Current trip value Io	3±1A
Power frequency short-circuit current breaking time Tos	≤ 40ms
Power frequency load current breaking time To	≤ 50ms
Mechanical life	4000 times
Electrical life	4000 times
Normal work environment	-25~+60°C
Installation method	35mm standard DIN rail
No. of poles	2P, 3P, 4P
Outline and installation size (mm)	85×36×73.5(2P) 85×72×73.5(3P, 4P)

XLSCB2

Backup protective device



Non-trip impulse current Ie(8/20μs)	10kA, 20kA, 40kA, 60kA, 80kA, 100kA, 120kA, 160kA
Non-trip impulse current Ie(10/350μs)	15kA, 25kA
Rated operating voltage Ue	230/400VAC
Current trip value Ii	3±1A
Maximum short-circuit breaking capacity Icn	25kA, 50kA, 100kA
Mechanical life	10000 times
Electrical life	4000 times
Normal work environment	-5~+40°C
Installation method	35mm standard DIN rail
No. of poles	1P, 2P, 3P, 4P
Outline and installation size (mm)	≤ 80kA: 90×18×74(1P), 90×36×74(2P), 90×54×74(3P), 90×72×74(4P) ≥ 100kA: 90×36×74(1P), 90×72×74(2P), 90×108×74(3P), 90×144×74(4P)

Miniature (residual current) circuit breaker series

Overview

This miniature circuit breaker is mainly used in circuit with frequency of AC 50Hz, rated operating voltage of 230V/400V and below, and rated current up to 63A. It's used for protection of electrical circuit and equipment in modern buildings against leakage, overload, short circuit, overvoltage, undervoltage, etc. It is also applicable for infrequent operation and isolation of circuit.

Altitude: $\leq 2000\text{m}$; ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$.

Installation category: Class II and III.

DZ47-63
Miniature circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
No. of poles	1P, 2P, 3P, 4P
Instantaneous release form	C type (5~10In), D type (10~20In)
Protection type	Distribution protection, motor protection
Rated short-circuit breaking capacity (Icu)	4kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail installation
Product executive standard	GB/T 10963.1

DZ47LE-32
Miniature residual current breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Instantaneous release form	B type (3~5In), C type(5~10In), D type (10~20In)
Protection type	Distribution protection, motor protection
Rated leakage operating current ($I_{\Delta n}$)	30mA, 50mA, 100mA
Rated short-circuit breaking capacity (Icu)	4kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 16917.1

DZ47LE-63
Miniature residual current circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	40A, 50A, 63A
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Instantaneous release form	B type (3~5In), C type(5~10In), D type (10~20In)
Protection type	Distribution protection, motor protection
Rated leakage operating current ($I_{\Delta n}$)	30mA, 50mA, 100mA
Rated short-circuit breaking capacity (Icu)	4kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 16917.1

XLDM7-100
Miniature circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	63A, 80A, 100A
No. of poles	1P, 2P, 3P, 4P
Protection type	Distribution protection, motor protection
Rated short-circuit breaking capacity (Icu)	10kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T14048.2

XLDM7LE-100
Miniature residual current circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	63A, 80A, 100A
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Protection type	Distribution protection, motor protection
Rated leakage operating current (I _{Δn})	30mA, 50mA, 100mA
Rated short-circuit breaking capacity (Icu)	10kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T14048.2

XLB1-63
Miniature circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
No. of poles	1P, 2P, 3P, 4P
Instantaneous release form	B type, C type, D type
Protection type	Distribution protection, motor protection
Rated short-circuit breaking capacity (Icu)	6kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 10963.1

XLB1LE-63
Miniature residual current circuit breaker



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	1A, 2A, 3A, 4A, 6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A
No. of poles	1P+N, 2P, 3P, 3P+N, 4P
Instantaneous release form	B type, C type, D type
Protection type	Distribution protection, motor protection
Rated leakage operating current (I _{Δn})	30mA, 50mA, 100mA
Rated short-circuit breaking capacity (Icu)	6kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 16917.1

XLB2-32
Miniature circuit breaker



Rated operating voltage	AC230V
Rated frequency	50Hz
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A
No. of poles	1P+N
Instantaneous release form	B type, C type, D type
Protection type	Distribution protection, motor protection
Rated short-circuit breaking capacity (Icu)	4.5kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 10963.1

XLB2LE-32
Miniature residual current circuit breaker



Rated operating voltage	AC230V
Rated frequency	50Hz
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A
No. of poles	1P+N
Instantaneous release form	B type, C type, D type
Protection type	Distribution protection, motor protection
Rated leakage operating current (I _{Δn})	30mA, 50mA, 100mA
Rated short-circuit breaking capacity (Icu)	4.5kA
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 16917.1

XLH2-125
Miniature isolation switch



Rated operating voltage	AC230V/400V
Rated frequency	50Hz
Rated operating current	6A, 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A
No. of poles	1P, 2P, 3P, 4P
Outline and installation size	Refer to the user manual or selection manual
Installation method	35mm standard DIN rail
Product executive standard	GB/T 14048.3

RELAY
SERIES

SWITCH
SERIES

ELECTRIC DRIVE AND
CONTROL SERIES

INSTRUMENT &
METER SERIES

DISTRIBUTION
CONTROL SERIES

AUTOMATION INDUSTRY
APPLICATION

POWER SUPPLY
AND OTHERS

XLCM1 Molded case circuit breaker

Overview

The XLCM1 (CM1) series molded case circuit breaker is suitable for distribution network circuit with frequency of AC 50Hz, rated insulation voltage of 690V (500V for 63 type), rated operating voltage of 400V, and rated operating current from 16A to 800A. It is used to distribute electrical energy and protect circuit and power equipment from overload, short circuit, undervoltage and other faults. It can also serve as a protection for infrequent starting, overload, short circuit and undervoltage of electric motor.

The product complies with the GB/T14048.2 standard.

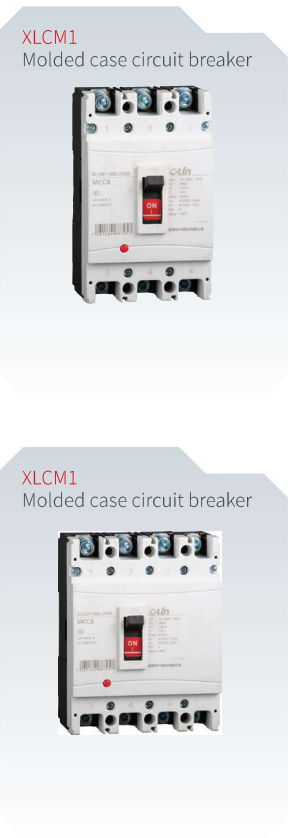
Model description

XL	CM	1 -	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/> /	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Enterprise code	Molded circuit breaker	Design code	Rated frame current	Breaking capacity feature code: Standard type-L (L can be omitted) Moderate type-M	Operation mode code: handle direct operation-no code; electric operation-P; Rotating handle-Z;	No. of poles	Release mode and accessory code	Purpose code: circuit breaker for distribution-no code Circuit breaker for motor protection-2	N pole type of 4P circuit breaker

Note: There are four types of neutral pole (N pole) in the four-pole products:
A type: The N pole is not equipped with over-current release, and the N pole is always connected, not closed or opened with other three poles.
B type: N pole is not equipped with over-current release, and N pole is closed and opened together with other three poles (N pole is closed first and then opened).
C type: N pole is equipped with over-current release, and N pole is closed and opened together with other three poles (N pole is closed first and then opened).
D type: N pole is equipped with over-current release, and the N pole is always connected, not closed and opened with other three poles.

Technical parameter

Rated operating voltage	AC400V
Rated insulation voltage	690V (500V for 63 type)
Frame size	63A, 125A, 250A, 400A, 630A, 800A
Rated current	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A, 180A, 200A, 225A, 250A, 315A, 350A, 400A, 500A, 630A, 800A
Overload protection (time delay)	Distribution protection, motor protection
Rated ultimate short-circuit breaking capacity level	L (standard type); M (moderate breaking type)
Installation method	Vertical/horizontal
Wiring method	Front-panel wiring, rear-panel wiring, plug-in type
No. of poles	3P, 4P
Pollution degree	Class 3
Installation category	III
Protection level	IP20
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C
Altitude	≤ 2000m



XLCM1L Molded case residual current circuit breaker

XLCM1L
Molded case residual current circuit breaker



Overview

The XLCM1L (CM1L) series residual current circuit breaker is suitable for use in neutral point solidly grounded power supply system with frequency of AC 50Hz, rated operating voltage up to 400V, and rated operating current from 16A to 800A. It is used for residual current protection and can also be used to prevent fire hazards caused by ground fault current due to equipment insulation damage. Meanwhile, it be used to distribute electrical energy and protect circuit and power equipment from damage caused by overload, short circuit and other faults. It can also be used for infrequent starting and overload/short circuit protection of electric motor.

The product complies with the GB/T14048.2 standard.

Model description

XL	CM	1	L -	□	□	□ /	□	□	□
Enterprise code	Molded case circuit breaker	Design code	Special derivative code (electronic residual current operated circuit breaker)	Rated frame current	Breaking capacity feature code: Standard type-L (L can be omitted) Moderate type-M	Operation mode code: handle direct operation-no code; electric operation-P; Rotating handle-S;	No. of poles 3P; 4P; 3P+N;	Release mode and accessory code	Purpose code: Residual current circuit breaker for distribution-no code; residual current circuit breaker for motor protection-2;

Technical parameter

Rated operating voltage	AC400V
Frame size	125A, 250A, 400A, 630A, 800A
Rated current	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A, 180A, 200A, 225A, 250A, 315A, 350A, 400A, 500A, 630A, 800A
Leakage current	30mA, 50mA, 100mA, 200mA, 300mA, 500mA, 1000mA
Overload protection (time delay)	Distribution protection, motor protection
Rated ultimate short-circuit breaking capacity level	L (standard type); M (moderate breaking type)
Installation method	Vertical/horizontal
Wiring method	Front-panel wiring, rear-panel wiring, plug-in type
No. of poles	3P, 4P, 3P+N
Pollution degree	3
Installation category	III
Protection level	IP20
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C
Altitude	≤ 2000m

XLCM1E Electronic molded case circuit breaker series

Overview

XLCM1E
Electronic molded case
circuit breaker



The XLCM1E series electronic molded case circuit breaker is suitable for distribution network circuit with frequency of AC 50Hz, rated operating voltage of 400V, and rated working up to 800A. It is used to distribute electrical energy and protect line and power equipment from damage caused by overload, short circuit, undervoltage and other faults. It can also be used for infrequent starting operation for electric motor.

The intelligent overcurrent release of this circuit breaker is controlled by microprocessor and has three-stage protection characteristic, namely overload inverse time limit long time delay protection, short circuit time delay protection and short circuit instantaneous protection. Due to its adjustable artificial short-circuit short time delay protection characteristic, this series of circuit breaker can clearly achieve selective protection with another short-circuit protection device connected in series on the load side.

The overcurrent three-stage protection characteristic of this circuit breaker can be easily adjusted to meet the protection requirement of different loads and achieve optimal matching.

This circuit breaker has operation, pre-alarm and overload indication.

The product complies with the GB/T14048.2 standard.

Model description

XL	CM	1	E -	□	□ /	□	□	□	□
Enterprise code	Molded case circuit breaker	Design code	Electronic type	Rated frame current	Operation mode code: handle direct operation-no code; electric operation-P; Rotating handle-Z;	No. of poles	Release mode and accessory code	Purpose code: circuit breaker for distribution-no code Circuit breaker for motor protection-2	N pole type of 4P circuit breaker

Technical parameter

Rated operating voltage	AC400V
Rated insulation voltage	AC1000V
Frame size	125A, 250A, 400A, 800A
Rated current	16A, 20A, 25A, 32A, 40A, 50A, 63A, 80A, 100A, 125A, 160A, 180A, 200A, 225A, 250A, 315A, 350A, 400A, 500A, 630A, 800A
Overload protection (time delay)	Distribution protection, motor protection
Installation method	Vertical/horizontal
Wiring method	Front-panel wiring, rear-panel wiring, plug-in type
No. of poles	3P, 4P
Pollution degree	Class 3
Installation category	III
Protection level	IP20
Ambient temperature	Upper limit temperature: +40℃ ; lower limit temperature: -5℃
Altitude	≤ 2000m

XLDW1 (DW45) Intelligent air circuit breaker series

XLDW1(DW45)

Fixed type intelligent air circuit breaker



XLDW1(DW45)

Draw-out type intelligent air circuit breaker



Overview

The XLDW1(DW45) series intelligent air circuit breaker is used to control and protect low-voltage distribution networks. It's generally installed in low-voltage distribution cabinet as the main switch for overall protection. Circuit breaker with rated current of 4000A or below can also be used for infrequent starting of electric motor.

Classification by structure form: fixed type, draw-out type.

The product complies with the GB/T14048.2 standard.

Model description

XL	DW	1 -	□	□
Enterprise code	Air circuit breaker	Design code	Rated frame current	Number of poles (3P is omitted)

Technical parameter

Rated insulation voltage (Ui)	690V
Rated voltage (Ue)	AC690V and below
Frame current (Inm)	2000A, 3200A, 4000A
Rated current (Ie)	400A, 630A, 800A, 1250A, 1600A, 2000A, 2500A, 2900A, 3200A, 3600A, 4000A
Rated service short-circuit breaking capacity (Ius)	40kA~65kA
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C
No. of poles	3P, 4P (only 3P for 4000A)
Structure form	Fixed type
Classification by controller	L type, M type, H type, 2M type, 2H type
Pollution degree	3
Rated insulation voltage (Ui)	690V
Rated voltage (Ue)	AC690V and below
Frame current (Inm)	2000A, 3200A, 4000A
Rated current (Ie)	400A, 630A, 800A, 1250A, 1600A, 2000A, 2500A, 2900A, 3200A, 3600A, 4000A
Rated service short-circuit breaking capacity (Ius)	40kA~65kA
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C
No. of poles	3P, 4P (only 3P for 4000A)
Structure form	Draw-out type
Classification by controller	L type, M type, H type, 2M type, 2H type
Pollution degree	3

CJX2 AC Contactor series

Overview

The CJX2 series AC contactor (hereinafter referred to as the contactor) is mainly used in circuit with frequency of AC 50Hz, rated operating voltage of 400V, and rated operating current of 09~95A, and it's used for remote connection and disconnection of circuit and frequent starting of AC motor. This product can also be combined with auxiliary contact set, air delay contact, mechanical interlocking mechanism and other accessories to form time delay contactor and star-delta starter, and can be combined with appropriate thermal relay to form electromagnetic starter.

The product complies with the GB/T14048.4 standard.

Model description

CJ	X	2 -	□	□	□
AC Contactor	Miniature	Design code	It indicates the rated operating current under the AC-3 utilization category and rated operating voltage of 400V	“10” -with 1 NO auxiliary contact “01” -with 1 NC auxiliary contact “11” -with 1 NO and 1 NC auxiliary contact “004” -4 NO main contacts “008” -2 NO and 2 NC main contacts	Coil voltage code: Z-DC control

Technical parameter

Model and specification	CJX2-09	CJX2-12	CJX2-18	CJX2-25	CJX2-32
Rated operating current (Ie)	9A	12A	18A	25A	32A
Rated insulation voltage (Ui)	690V				
Rated operating voltage	400V				
Rated control voltage	AC: 24V, 36V, 48V, 96V, 110V, 127V, 220V, 380V				
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C				
Auxiliary contact	01/NC (normally closed auxiliary contact), 10/NO (normally open auxiliary contact)				
Utilization category	AC-3, AC-4				
Installation method	Vertical installation (screw installation, 35mm standard DIN rail)				
Accessory	Auxiliary contact set, air delay contact, mechanical interlocking mechanism				
Dimension (mm)	47×76×82	47×76×82	47×76×87	58×86×96	58×86×101
Installation size (mm)	35×50/60	35×50/60	35×50/60	40×50/60	40×50/60

Model and specification	CJX2-40	CJX2-50	CJX2-65	CJX2-80	CJX2-95	
Rated operating current (Ie)	40A	50A	65A	80A	95A	
Rated insulation voltage (Ui)	690V					
Rated operating voltage	400V					
Rated control voltage	AC: 24V, 36V, 48V, 96V, 110V, 127V, 220V, 380V					
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C					
Auxiliary contact	11(1 normally closed auxiliary contact+1 normally open auxiliary contact/1NC+NO);					
Utilization category	AC-3, AC-4					
Installation method	Vertical installation (screw installation, 35mm/75mm standard DIN rail)					
Accessory	Auxiliary contact set, air delay contact, mechanical interlocking mechanism					
Dimension (mm)	84×129×116	84×129×116	84×129×116	96×129×127	96×129×127	
Installation size (mm)	40×100/110	40×100/110	40×100/110	40×100/110	40×100/110	

XLCP51 Control and protection switch series

XLCP51
Control and protection switch



Overview

The XLCP51 series Control and protection switch is mainly used in power system with frequency of AC 50Hz, rated operating voltage 690V, main rated current from 1A to 125A, intelligent controller adjustable operating current from 0.4A to 125A and control motor power from 0.12kW to 55kW. It can connect, carry and disconnect current under normal condition (including specified overload condition), and it can also connect, carry and disconnect current under abnormal condition (such as short circuit, undervoltage, etc.) within the specified time. XLCP51 realizes integrated and internally coordinated control and protection function on product of single mechanism form. It can Replace for various traditional separation components such as circuit breaker (fuse), contactor, starter, isolator, thermal relay, overload (or overcurrent, phase failure) protection relay, motor comprehensive protector, intelligent leakage relay, etc. It has the function of remote automatic control and local manual control for control operation, the characteristic of coordinated time-current protection, self coordination of control and protection, continuous operation after short circuit, high breaking capacity, small arcing distance, long service life, adjustable protection setting current, easy operation, and diverse and complete supporting accessory modules. It can realize the control and protection of motor load and distribution load.

The product complies with the GB/T14048.9 standard.

Model description

XL	CPS1	□ -	□	□ /	□	□ /	□	□	□
rise Code	Control and protection switch (Multifunctional device)	Product combination type: basic type-no code N-reversible type D-Double speed type J-star-delta reduced-voltage type Z-auto-coupling reduced-voltage type	Rated frame current (Inm): 45A, 125A	Rated service breaking capacity Ics: 15kA Y: 35kA	Load category code: M-motor protection type L-Distribution protection type	Rated operating current: 1A,3A,6A 12A,16A 25A,32A 45A,63A 80A,100A 125A	Auxiliary contact code: 06-3 NO 2 NC+1 fault trip+1 fault alarm	Control supply voltage Us: M-230V Q-400V	Derivative code: basic type-no code F-Fire protection L-Leakage G-Isolation T-Comm.

Technical parameter

Rated operating voltage (Ue)	400V, 690V
Control supply voltage (Us)	AC230V, AC400V
Rated frame current (Inm)	45A, 125A
Rated operating current (Ie)	1A, 3A, 6A, 12A, 16A, 25A, 32A, 45A, 63A, 80A, 100A, 125A
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C
Installation environment	Altitude ≤ 2000m, no moisture no corrosive gas
No. of poles	3P
Overload protection (time delay)	Distribution protection, motor protection
Breaking capacity	C: 15KA, Y: 35KA
Auxiliary contact	06-3 NO 2 NC+1 fault trip+1 fault alarm
Derivative function	F-fire protection, L-leakage, G-isolation, T-communication
Installation method	45 type: Vertical installation (screw installation, 35mm standard DIN rail) 125 type: Vertical installation (screw installation)
Dimension (mm)	45 type 3P: 202×78×140 125 type 3P: 245×104×180

XLCP51D Double speed type
Control and protection switch



Rated operating voltage (Ue)	400V, 690V
Control supply voltage (Us)	AC230V, AC400V
Frame current (Inm)	45A, 125A
Rated operating current (Ie)	1A, 3A, 6A, 12A, 16A, 25A, 32A, 45A, 63A, 80A, 100A, 125A
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C ;
Installation environment	Altitude ≤ 2000m, no moisture, no corrosive gas
No. of poles	3P
Overload protection (time delay)	Distribution protection, motor protection
Breaking capacity	C: 15KA, Y: 35KA
Auxiliary contact	06-3 NO 2 NC+1 fault trip+1 fault alarm
Derivative function	F-fire protection, L-leakage, G-isolation, T-communication
Installation method	Vertical installation (screw installation)
Dimension (mm)	45 type 3P: 400×450 125 type 3P: 450×550

XLCP51J Star-delta type
Control and protection switch



Rated operating voltage (Ue)	400V, 690V
Control supply voltage (Us)	AC230V, AC400V
Frame current (Inm)	45A, 125A
Rated operating current (Ie)	1A, 3A, 6A, 12A, 16A, 25A, 32A, 45A, 63A, 80A, 100A, 125A
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C ;
Installation environment	Altitude ≤ 2000m, no moisture, no corrosive gas
No. of poles	3P
Overload protection (time delay)	Distribution protection, motor protection
Breaking capacity	C: 15KA, Y: 35KA
Auxiliary contact	06-3 NO 2 NC+1 fault trip+1 fault alarm
Derivative function	F-fire protection, L-leakage, G-isolation, T-communication
Installation method	Vertical installation (screw installation)
Dimension (mm)	45 type 3P: 400×450 125 type 3P: 450×550

XLCP51N Reversible type
Control and protection switch



Rated operating voltage (Ue)	400V, 690V
Control supply voltage (Us)	AC230V, AC400V
Frame current (Inm)	45A, 125A
Rated operating current (Ie)	1A, 3A, 6A, 12A, 16A, 25A, 32A, 45A, 63A, 80A, 100A, 125A
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C ;
Installation environment	Altitude ≤ 2000m, no moisture, no corrosive gas
No. of poles	3P
Overload protection (time delay)	Distribution protection, motor protection
Breaking capacity	C: 15KA, Y: 35KA
Auxiliary contact	06-3 NO 2 NC+1 fault trip+1 fault alarm
Derivative function	F-fire protection, L-leakage, G-isolation, T-communication
Installation method	Vertical installation (screw installation)
Dimension (mm)	45 type 3P: 400×450 125 type 3P: 450×550

XLCP51Z Auto-coupling reduced-voltage type
Control and protection switch



Rated operating voltage (Ue)	400V, 690V
Control supply voltage (Us)	AC230V, AC400V
Frame current (Inm)	45A, 125A
Rated operating current (Ie)	1A, 3A, 6A, 12A, 16A, 25A, 32A, 45A, 63A, 80A, 100A, 125A
Ambient temperature	Upper limit temperature: +40°C ; lower limit temperature: -5°C ;
Installation environment	Altitude ≤ 2000m, no moisture, no corrosive gas
No. of poles	3P
Overload protection (time delay)	Distribution protection, motor protection
Breaking capacity	C:15kA, Y:35kA
Auxiliary contact	06-3 NO 2 NC+1 fault trip+1 fault alarm
Derivative function	F-fire protection, L-leakage, G-isolation, T-communication
Installation method	Vertical installation (screw installation)
Dimension (mm)	45 type 3P: 400×450 125 type 3P: 450×550

RELAY
SERIES

SWITCH
SERIES

ELECTRIC DRIVE AND
CONTROL SERIES

INSTRUMENT &
METER SERIES

DISTRIBUTION
CONTROL SERIES

AUTOMATION INDUSTRY
APPLICATION

POWER SUPPLY
AND OTHERS

XLCPS2 Control and protection switch series

Overview

XLCPS2
Control and
protection switch



The XLCPS2 series Control and protection switch (hereinafter referred to as "switch" or CPS) is mainly used to control and protect the circuit of low-voltage distribution and motor with frequency of AC 50Hz, rated operating voltage of 690V and below, rated operating current from 0.3A~63A, and control motor power from 0.07kW to 30kW.

The XLCPS2 switch is an integrated technology product with compact structure, small size, and it is eco-friendly and energy-saving, easy for installation and simple for operation; the digital electronic control system has high degree of intelligence and reliable and complete functions. The product structure has been optimized with eco-friendly new material, which has characteristics such as temperature resistance, high strength and strong arc resistance. The functional units of the product are modular, and each module has innovative highlights. It has multiple patents, and the standardized manufacturing of module greatly improves the reliability of the product.

The XLCPS2 switch is a multifunctional device with circuit overload and short circuit protection capacity, and the rated service short-circuit breaking capacity is up to 50kA; it has on-off control function of circuit load, long service life and high reliability; it has various control modes including handle control (manual), terminal control (automatic) and keyboard control (menu), and the capacity to remotely control the closing and opening of switch (upper computer communication control and master switch control), it's suitable for both automatic and remote control system.

The protection function is comprehensive, including short circuit, overload, phase failure, imbalance, locked rotor, undercurrent, etc., which meets the needs of various circuit loads. The switch has fault alarm and other functions, and provides operation record, fault record and other memory data.

The product complies with the standard GB/T 14048.9.

Model description

XL	CPS	2	- □	/ □	□	□	□
Enterprise code	Product category: Control and protection switch (CPS)	Design number	Frame current Inm: 63A	Rated operating current Ie 1.2, 2.4, 6, 12, 18, 32, 45, 63	M-230V Control supply voltage code M-230V	Controller type: S-standard type T-comm. type Su-standard type with voltage protection	Derivative product code (added with module) L-leakage type

Note: If the user requires combination type product, please contact the manufacturer.

Technical parameter

Frame size	63
Rated operating voltage Ue	400V, 690V
Utilization category	AC—43, AC—44
Agreed heating current Ith(A)	12 32 63
Rated operating current Ie(A)	1.2, 2.4, 6, 12 18, 32 45, 63
Rated frequency	50Hz
No. of poles	3
Rated work system	8-hour work system, uninterrupted work system, intermittent work system Intermittent work system level 300, load factor 40%
Rated service short-circuit breaking capacity Ics	50kA (AC400V) , 4kA (AC690V)
Breaking operation time	≤ 2ms
Rated insulation voltage Ui	690V
Rated impulse withstand voltage Uimp	6kV
Electric life (AC-43) (10000 times)	100 (AC400V)
Mechanical lifespan (10000 times)	1000
Installation method	Vertical installation (screw installation, 35mm standard DIN rail)
Dimension (mm)	184×55×158