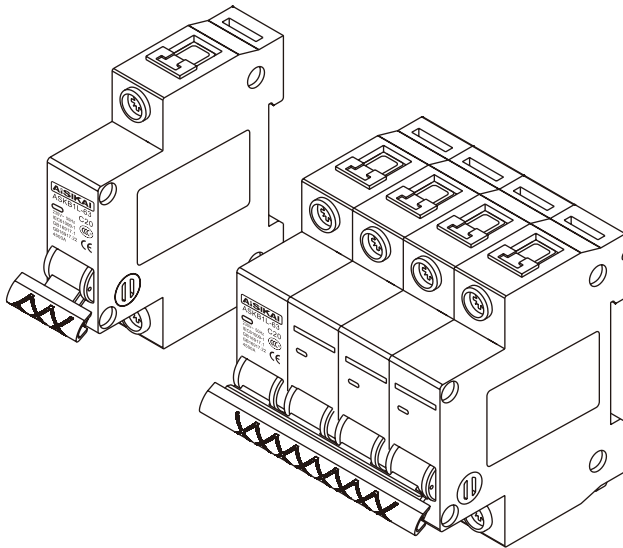


ASKB1/B2

MINIATURE CIRCUIT BREAKER USER MANUAL



JIANGSU AISIKAI ELECTRIC CO.,LTD

ASKB1 MINIATURE CIRCUIT BREAKER SELECTION TABLE

No code: normal protection
 GQ: over-voltage under-voltage protection(63 frame only)
 S: prepaid meter special protection
 L:leakage protection
 Function derivation code

Miniature circuit breaker
 Production code

ASK B 1 GQ — 63 H / 1P+N / C 40A

Design serial
 1: basic type

Frame ratings
 63: 63Aframe
 125: 125Aframe

L: 4.5 kA
 H: 6 kA
 Breaking capacity

C: Power type
 D: Lighting type
 Tripper type

Rated current (A)
 3-125

Company
 AISIKAI ELECTRIC

No. of poles		
Type B1	Type B1L	Type B1S/B1GQ
	1P+N: single phase	
1P: 1 poles	2P: 2 phases	
2P: 2 poles	3P: 3 phases	
3P: 3 poles	3P+N: 3 phases	1P+N: single phase protection
4P: 4 poles	4P: 4 poles	3P+N: 3 phases protection

Frame Classification:

Normal type(63A frame, 125A frame)

Over-voltage under-voltage protection type(GQ type, 63A frame)

Prepaid meter special type (S type, 63A frame, 125A frame)

Leakage protection type(L type, 63A frame, 125A frame)

Design Marking	Design Marking	Model Description 1: ASKB1GQ-63 / 1P+N / 40A:	Model Description 2: ASKB1L-125 / 4P / 100A:	Model Description 3: ASKB2-32 / 1P+N / 6A:
 ASKB1L ASKB2L	 ASKB1L ASKB2L	1. standard over-voltage under-voltage protection type MCB 2. 63A frame 3. single phase two lines, rated current 40A	1. standard leakage protection type MCB 2. 125A frame 3. 4 poles, rated current 100A	1. compact leakage protection type MCB 2. 32A frame 3. single phase two lines, rated current 6A

ASKB1 NORMAL PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

63A Frame						
General power distribution protection						
No. of poles			1P	2P	3P	4P
Electrical performance						
Functions			Short-circuit protection, overload protection, isolation, control			
Rated frequency	f	(Hz)	50			
Rated operational voltage	Ue	(V AC)	230/400	400	400	400
Rated current	In	(A)	3、6、10、20、25、32、40、50、63			
Impulse withstand voltage	Uimp	(kV)	4			
Instantaneous tripping type			C/D			
Rated short-circuit capacity	Icu	(kA)	L type	Icu=Ics=4.5		
			H type	Icu=Ics=6		
Tripper type			Thermomagnetic			
Service life	(0~C)	Mechanical service life	20000			
		Electrical service life	8000			
Control and indication			Alarm contact SD, auxiliary contact OF, shunt tripper MX+OF or over-voltage under-voltage tripper MN+MV (choose one of the two)			
Optional accessories(multiple options available)						
Connection and installation						
Protection level			IP20			
Handle lock			None			
Wiring capacity	(mm²)		1 ~ 25			
Operational temperature	(℃)		-5 ~ +40			
Resistance to heat and humidity			Class 2			
Altitude	(m)		≤ 2000			
Air relative humidity			Not exceed 95% at +20℃ ; not exceed 50% at +40℃			
Pollution level			2			
Installation environment			Without strong impact and vibration			
Installation category			III			
Installation method			DIN standard rail			
Outline dimensions (mm)		a	18	36	54	72
		b	80.5			
		c	76	78		

ASKB1 NORMAL PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

125A Frame							
General power distribution protection							
No. of poles			1P	2P	3P	4P	
Electrical performance							
Functions			Short-circuit protection, overload protection, isolation, control				
Rated frequency	f	(Hz)	50				
Rated operational voltage	Ue	(V AC)	230	400	400	400	
Rated current	In	(A)	63、80、100、125				
Impulse withstand voltage	Uimp	(kV)	4				
Instantaneous tripping type			C/D				
Rated short-circuit capacity	Icu	(kA)	10				
Tripper type			Thermomagnetic				
Service life	(0~C)	Mechanical service life	20000				
		Electrical service life	8000				
Control and indication			Alarm contact SD, auxiliary contact OF, shunt tripper MX+OF or over-voltage under-voltage tripper MN+MV (choose one of the two)				
Optional accessories(multiple options available)							
Connection and installation							
Protection level			IP20				
Handle lock			None				
Wiring capacity	(mm²)		1 ~ 25				
Operational temperature	(℃)		-5 ~ +40				
Resistance to heat and humidity			Class 2				
Altitude	(m)		≤ 2000				
Air relative humidity			Not exceed 95% at +20℃；not exceed 50% at +40℃				
Pollution level			2				
Installation environment			Without strong impact and vibration				
Installation category			III				
Installation method			DIN standard rail				
Outline dimensions (mm)			a	27	54	81	108
Width*Height*Depth			b	80.5			
			c	73.5	78.5		

ASKB1GQ OVER-VOLTAGE UNDER-VOLTAGE PROTECTION MINIATURE CIRCUIT BREAKER **MAIN TECHNICAL PARAMETERS**

63A Frame					
General power distribution protection					
No. of poles			1P+N(single phase two lines)		3P+N(three phases four lines)
Electrical performance					
Functions			Short-circuit protection, overload protection, isolation, control		
Rated frequency	f	(Hz)	50		
Rated operational voltage	Ue	(V AC)	400		
Over-voltage under-voltage protection range		(V AC)	Under-voltage: 170V±10% Over-voltage: 280V±10%		
Rated current	In	(A)	63Frame(16、20、25、32、40、50、63)		
Instantaneous tripping type			C/D		
Rated short-circuit capacity	Icu	(kA)	L	Icu=Ics=4.5	
			H	Icu=Ics=6	
Tripper type			Thermomagnetic+Electronic tripper		
Service life	(0~C)	Mechanical service life	20000		
		Electrical service life	8000		
Connection and installation					
Refer to ASKB1-63/2P for 1P+N outline dimensions; Refer to ASKB1-63/4P for 3P+N outline dimensions					

ASKB1S PREPAID METER SPECIAL TYPE MINIATURE CIRCUIT BREAKER **MAIN TECHNICAL PARAMETERS**

63A/125A Frame				
General power distribution protection				
No. of poles			1P+N(single phase two lines)	3P+N(three phases four lines)
Electrical performance			Short-circuit protection, overload protection, isolation, control	
Functions				
Rated frequency	f	(Hz)	50	
Rated operational voltage	Ue	(V AC)	200	400
Over-voltage under-voltage protection range		(V AC)	230	
Rated current	In	(A)	63Frame(3、6、10、16、20、25、32、40、50、63) 125Frame(63、80、100、125)	
Instantaneous tripping type			C/D	
Rated short-circuit capacity		L	Refer to the ASKB1 specifications	
		H	Refer to the ASKB1 specifications	
Tripper type			Thermomagnetic+Electronic tripper	
Service life	(0~C)	Mechanical service life	20000	
		Electrical service life	8000	
Connection and installation				
Refer to ASKB1-63/2P for 1P+N outline dimensions; Refer to ASKB1-63/4P for 3P+N outline dimensions				

ASKB1L LEAKAGE PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

63A Frame													
General power distribution protection (IEC/EN 61009-1; GB 16917.1)													
No. of poles				1P+N		2P		3P		3P+N		4P	
Electrical performance													
Functions				Short-circuit protection, overload protection, leakage protection, isolation, control									
Residual current type				AC type(ensure tripping for sudden applied or slowly rising residual sinusoidal AC currents)									
Rated frequency		f	(Hz)	50									
Rated operational voltage		Ue	(V AC)	230	230	400	400	400					
Rated residual action current		IΔn	(mA)	Default 30mA(non-action current 15mA). 50, 100, 200, 300mA is customizable									
Rated current		In	(A)	3、6、10、16、20、25、32、40、50、63									
				C/D									
Rated residual making and breaking capacity		Im	(A)	2000									
Rated short-circuit capacity		Icu	(kA)	L		Icu=Ics=4.5							
				H		Icu=Ics=6							
Tripper type				Thermomagnetic									
Service life		(0~C)	Mechanical service life	20000									
						Electrical service life 8000							
Control and indication													
Optional accessories(multiple options available)				Alarm contact SD, auxiliary contact OF									
Connection and installation													
Protection level				IP20									
Wiring capacity		(mm²)		1 ~ 25									
Operational temperature		(℃)		-25 ~ +60									
Resistance to heat and humidity				Class 2									
Altitude		(m)		≤ 2000									
Air relative humidity				Not exceed 95% at +20℃ ; not exceed 50% at +40℃									
Pollution level				2									
Installation environment				Without strong impact and vibration									
Installation category				Ⅲ									
Installation method				DIN standard rail									
Outline dimensions (mm) Width*Height*Depth			a	1-32A	45	63	90	99	177				
				40-63A	54	72	103	177	135				
			b	96									
			c	76			78						

ASKB1L LEAKAGE PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

63A Frame

General power distribution protection
(IEC/EN 61009-1; GB 16917.1)



No. of poles

1P+N

2P

3P

3P+N

4P

Electrical performance

Functions

Short-circuit protection, overload protection, leakage protection, isolation, control

Residual current type

AC type(ensure tripping for sudden applied or slowly rising residual sinusoidal AC currents)

Rated frequency

f

(Hz)

50

Rated operational voltage

U_e

(V AC)

230

230

400

400

400

Rated residual action current

I_{Δn}

(mA)

Default 30mA(non-action current 15mA). 50, 100, 200, 300mA is customizable

Rated current

I_n

(A)

3、6、10、16、20、25、32、40、50、63

Rated residual making and breaking capacity

I_m

(A)

C/D

2000

Rated short-circuit capacity

I_{cu}

(kA)

L

I_{cu}=I_{cs}=4.5

H

I_{cu}=I_{cs}=6

Tripper type

Thermomagnetic

Service life

(0~C)

Mechanical service life

20000

Electrical service life

8000

Control and indication

Optional accessories(multiple options available)

Alarm contact SD, auxiliary contact OF

Connection and installation

Protection level

IP20

Wiring capacity

(mm²)

1 ~ 25

Operational temperature

(℃)

-25 ~ +60

Resistance to heat and humidity

Class 2

Altitude

(m)

≤ 2000

Air relative humidity

Not exceed 95% at +20℃; not exceed 50% at +40℃

Pollution level

2

Installation environment

Without strong impact and vibration

Installation category

III

Installation method

DIN standard rail

Outline dimensions
(mm)



a

54

81

108

108

135

b

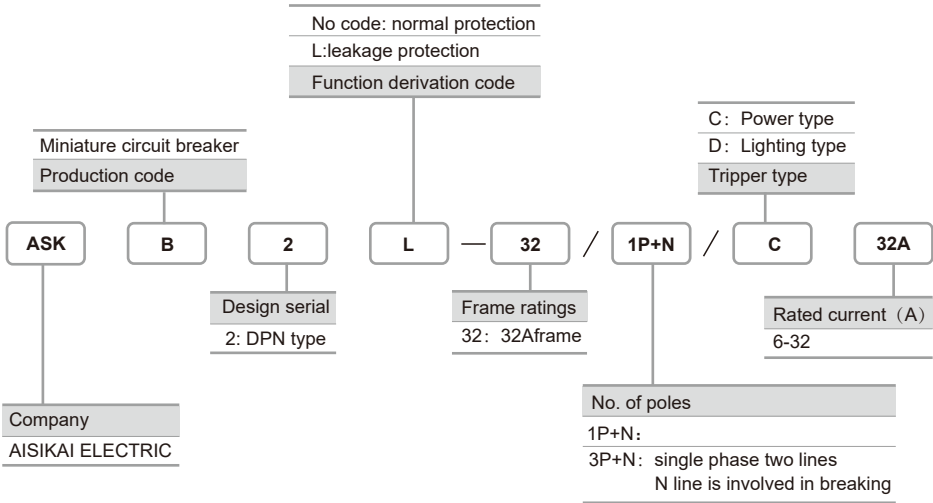
113

c

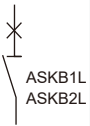
78.5

Width*Height*Depth

ASKB2 MINIATURE CIRCUIT BREAKER
SELECTION TABLE



Frame Classification:
Normal type(32A frame)
Leakage protection type(L type, 32A frame)

Design Marking	Design Marking	Model Description 3: ASKB2-32 / 1P+N / 6A:
 ASKB1L ASKB2L	 ASKB1L ASKB2L	1.compact leakage protection type MCB 2.32A frame 3.single phase two lines, rated current 6A

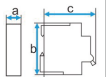
ASKB2 NORMAL PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

32A Frame

General power distribution protection
(IEC/EN 61009-1; GB 16917.1)



No. of poles			1P+N: single phase two lines, N line is involved in breaking
Electrical performance			
Functions			Short-circuit protection, overload protection, isolation, control
Rated frequency	f	(Hz)	50
Rated operational voltage	Ue	(V AC)	230
Rated current	In	(A)	6、10、16、20、25、32
Impulse withstand voltage	Uimp	(kV)	4
Instantaneous tripping type			C/D
Rated short-circuit capacity	Icu	(kA)	3
Tripper type			Thermomagnetic
Service life	(0~C)	Mechanical service life	20000
		Electrical service life	4000
Control and indication			
Optional accessories(multiple options available)			Not available
Connection and installation			
Protection level			IP20
Handle lock			None
Wiring capacity		(mm²)	1 ~ 25
Operational temperature		(℃)	-5 ~ +40
Resistance to heat and humidity			Class 2
Altitude		(m)	≤ 2000
Air relative humidity			Not exceed 95% at +20℃ ; not exceed 50% at +40℃
Pollution level			2
Installation environment			Without strong impact and vibration
Installation category			III
Installation method			DIN standard rail
Outline dimensions (mm)		a	18
Width*Height*Depth		b	81
		c	76

ASKB2L LEAKAGE PROTECTION MINIATURE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

32A Frame					
General power distribution protection (IEC/EN 61009-1; GB 16917.1)					
No. of poles			1P+N: single phase two lines, N line is involved in breaking		
Electrical performance					
Functions			Short-circuit protection, overload protection, isolation, control		
Residual current type			AC type(ensure tripping for sudden applied or slowly rising residual sinusoidal AC currents)		
Rated frequency	f	(Hz)	50		
Rated operational voltage	Ue	(V AC)	230		
Rated residual action current	IΔn	(mA)	Default 30mA(non-action current 15mA).		
Rated current	In	(A)	6、10、16、20、25、32		
Instantaneous tipping type			C/D		
Rated residual making and breaking capacity	Im	(A)	2000		
Rated short-circuit capacity	Icu	(kA)	3		
Tripper type			Thermomagnetic		
Service life	(0~C)	Mechanical service life	20000		
		Electrical service life	Not available		
Control and indication					
Optional accessories(multiple options available)			None		
Connection and installation					
Protection level			IP20		
Wiring capacity		(mm²)	1 ~ 25		
Operational temperature		(C)	-25 ~ +60		
Resistance to heat and humidity			Class 2		
Altitude		(m)	≤ 2000		
Air relative humidity			Not exceed 95% at +20℃ ; not exceed 50% at +40℃		
Pollution level			2		
Installation environment			Without strong impact and vibration		
Installation category			Ⅲ		
Installation method			DIN standard rail		
Outline dimensions (mm)			a	36	
Width*Height*Depth			b	81	
			c	76	

DECLARATION

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AIKAI-20220SG-ASKM3-V1.0



Wechat



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