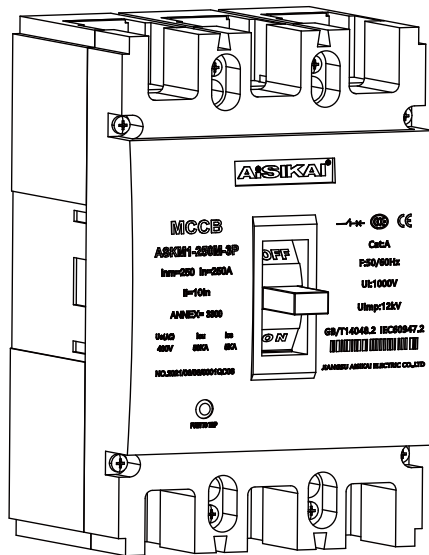


# ASKM1

## MOLDED CASE CIRCUIT BREAKER USER MANUAL







**JIANGSU AISIKAI ELECTRIC CO.,LTD**

ASKM1 THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

SELECTION TABLE

Molded case circuit breaker		2.electromagnetic tripper, only have short-circuit protection		3.composite tripper, have short-circuit protection and overload protection		I: overload alarm non-trip function		No code: front wiring C: front extended wiring R: rear wiring	
Production code		Tripper code		Special function code				PF: plug in front wiring PR: plug in rear wiring DF: draw out front wiring DR: draw out rear wiring	
		P: electric operating mechanism Z: rotate handle operation No code: direct handle operation		2: motor protection No code: power distribution				Installation wiring method	
		Operation method		Usage					

# **ASKM1 THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER** **MAIN TECHNICAL PARAMETERS**

Model	ASKM1-63			ASKM1-125			ASKM1-250			ASKM1-400			
													
Frame rating current Inm(A)	63			160			250			250			
No. of poles	3P/4P			3P/4P			3P/4P			3P/4P			
Rated current In(A)	10、16、20、25、32、40、50、63			10、16、20、25、32、40、50、63、80、100、125、140、160			100、125、140、160、180、200、225、250			225、250、315、350、400			
Rated insulation voltage Ui(V)	1000V			1000V			1000V			1000V			
Rated impulse withstand voltage Uimp(V)	12000V			12000V			12000V			12000V			
Rated operational voltage Ue(V)	AC400V/415V AC660V/690V												
Arc distance(mm)	≥50 (0) <sup>2)</sup>			≥50 (0) <sup>2)</sup>			≥50 (0) <sup>2)</sup>			≥100 (0) <sup>2)</sup>			
Breaking capacity level	L	M	H	L	M	H	L	M	H	L	M	H	
Ultimate short-circuit breaking capacity Icu(kA)	AC400V	25	35	50	35	50	65	35	50	65	65	70	100
											15	20	20
Service short-circuit breaking capacity Ics(kA)	AC400V	18	22	35	22	35	50	25	35	50	65	70	100
											15	20	20
Use category	A			A			A			A			
Electrical service life(times)	AC400V/415V	8000			8000			8000			7500		
	AC660V/690V	1500			1500			1000			1000		
Mechanical service life(times)	without maintenance	20000			20000			20000			10000		
	with maintenance	40000			40000			40000			20000		
Outline dimensions (mm)	W(3P/4P)	75/100			92/122			107/122			150/198		
	L	130			150			165			257		
	H(not including handle)	60			92			90			106.5		






Note:

1)According to GB/T14048.1, the term of "service life" indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.

2)Choose the height of 4mm zero arc cover for (ASKM1-63L/M, ASKM1-100C), 6.2mm for (ASKM1-160C/L/M/H), 8mm for (ASKM1-250C), 7.5mm for (ASKM1-250L/M/H), 9.3mm for (ASKM1-400C/L/M/H), ASKM1-630C/L/M/H), 9.5mm for(ASKM1-800L/M/H), realizing zero arc.

**ASKM1 THERMOMAGNETIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER**  
**MAIN TECHNICAL PARAMETERS**

Model	ASKM1-630			ASKM1-800			ASKM1-1600			
										
Frame rating current Inm(A)	630			800			1600			
No. of poles	3P/4P			3P/4P			3P/4P			
Rated current In(A)	400、500、630			400、500、630、700、800			800、1000、1250、1600			
Rated insulation voltage Ui(V)	1000V			1000V			1000V			
Rated impulse withstand voltage Uimp(V)	12000V			12000V			12000V			
Rated operational voltage Ue(V)	AC400V/415V			AC660V/690V						
Arc distance(mm)	≥ 100 (0 <sup>2</sup> )			≥ 100 (0 <sup>2</sup> )			≥ 100 (0 <sup>2</sup> )			
Breaking capacity level		L	M	H	L	M	H	L	M	H
Ultimate short-circuit breaking capacity Icu(kA)	AC400V	70	75	100	75	85	100	85	85	85
		20	30	30	20					
Service short-circuit breaking capacity Ics(kA)	AC400V	70	75	100	75	75	85	65	65	65
		20	30	30	20					
Use category	A			A			A			
Electrical service life(times)	AC400V/415V	7500			7500			7500		
	AC660V/690V	1000			500			1000		
Mechanical service life(times)	without maintenance	10000			10000			20000		
	with maintenance	20000			20000			20000		
Outline dimensions (mm)	W(3P/4P)	182/240			210/280			210/280		
	L	270			280			470		
	H(not including handle)	110			115.5			154		

Note:

1)According to GB/T14048.1, the term of "service life" indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.

2)Choose the height of 4mm zero arc cover for (ASKM1-63L/M, ASKM1-100C), 6.2mm for (ASKM1-160C/L/M/H), 8mm for (ASKM1-250C), 7.5mm for (ASKM1-250L/M/H), 9.3mm for (ASKM1-400C/L/M/H), ASKM1-630C/L/M/H), 9.5mm for(ASKM1-800L/M/H), realizing zero arc.

# ASKM1E INTELLIGENT ELECTRONIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

## SELECTION TABLE

Molded case circuit breaker		125		250		400		630		800		3: 3 poles		4: 4 poles		No. of poles		A		B: default		C		TH: humid tropical		No code: normal		Use environment		Rated current		32A ~ 800A			
Production code		E: electronic type		T: with communication function		00: no accessory		Refer to catalog		Internal accessories		Special code of N pole type		D		Function Derivation Code		Communication code		00: no accessory		Refer to catalog		Internal accessories		Special code of N pole type		Use environment							
ASK	M	1	E	125	H	T	/	P	/	4	3	00	2	B	G	/	TH	/	R	/	125A														
Design serial		Rated ultimate short-circuit breaking capacity		M: medium-high		H: high		Tripper code		3: electronic tripper		Usage		2: motor protection		No code: power distribution		Grounding function		G: with grounding function		Installation wiring method		No code: front wiring		C: front extended wiring		R: rear wiring		PF: plug in front wiring		PR: plug in rear wiring		D: draw out wiring	
Company		Operation method		No code: direct handle operation		P: electric operating mechanism		Z: rotate handle operation																											
AISIKAI ELECTRIC																																			

Note:


the special code of N pole type(for 4 poles products only. The default type is B if there is no special instructions when ordering)

A: N poles does not have over-current tripper. N pole is always closed and does not break/close along with the other three poles.

B: N poles does not have over-current tripper. N pole breaks/closes along with the other three poles. N pole is equipped with "first close, then split" function as standard.




C: N poles has over-current tripper. N pole breaks/closes along with the other three poles. N pole is equipped with "first close, then split" function as standard.

D: N poles has over-current tripper. N pole is always closed and does not break/close along with the other three poles.

<p>Design marking</p>  <p>ASKM1E</p>	<p>Model description 1:</p> <p>ASKM1E-125H / P / 43002 / TH / R / 63A</p> <ol style="list-style-type: none"> <li>1.Electronic molded case circuit breaker, 125A frame, high breaking capacity, electric operating mechanism.</li> <li>2.4 poles, electronic tripper, no accessory, for motor protection.</li> <li>3.humid tropical type, rear wiring.</li> <li>4.rated current 63A, setting current (0.4-1)In.</li> </ol>	<p>Model description 2:</p> <p>ASKM1E-250MT / 3300 / 160A</p> <ol style="list-style-type: none"> <li>1.Electronic molded circuit breaker, 250A frame, medium-high breaking capacity, communication function, direct manual operation(implicit).</li> <li>2.3 poles, electronic tripper, no accessory</li> <li>3.for power distribution (implicit), normal environment(implicit), front wiring(implicit).</li> <li>4.rated current 160A, setting current (0.4-1)In.</li> </ol>
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ASKM1E INTELLIGENT ELECTRONIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS

Model		ASKM1E - 125			ASKM1E - 250	
						
Frame rating current Inm(A)		125			250	
Rated current In(A)		32	63	125	160	250
Overload long delay setting current Ir(A)		12.5、16、20、25、32	32、36、40、45、50、55、60、63	63、65、70、75、80、85、90、95、100、125	63、80、90、100、125、140、160	100、125、140、160、180、200、225、250
Rated operational voltage Ue(V)		AC400V/415V			AC660V/690V	
Rated insulation voltage Ui(V)		1000V				
Rated impulse withstand voltage Uimp(V)		12000V				
Arc distance(mm)		≥ 50 (0) <sup>2)</sup>			≥ 50 (0) <sup>2)</sup>	
Breaking capacity level		M	H		M	H
Ultimate short-circuit breaking capacity Icu(kA)	AC400V/415V	50	85		50	85
	AC660V/690V	20	20		20	20
Service short-circuit breaking capacity Ics(kA)	AC400V/415V	35	50		35	50
	AC660V/690V	15	15		15	15
Rated short-time withstand current Iow(kA)/1s		5			5	
Use category		B			B	
Electrical service life(times)		8000			8000	
Mechanical service life(times)	without maintenance	20000			20000	
	with maintenance	40000			40000	
Outline dimensions (mm)	W(3P/4P)	92/122			107/142	
	L	150			165	
	H(not including handle)	92			90	
						

\*Note:




According to GB/T14048.1, the term of “service life” indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.

\*\*Note:

Choose the height of 6.2mm zero arc cover for 125 frame, 7.5mm for 250 frame, 9.3mm for 400 frame, 9.5mm for 800frame, realizing zero arc.

# ASKM1E INTELLIGENT ELECTRONIC NORMAL PROTECTION MOLDED CASE CIRCUIT BREAKER

## MAIN TECHNICAL PARAMETERS

Model	ASKM1E - 400		ASKM1E - 630		ASKM1E - 800		
							
Frame rating current Inm(A)	400		630		800		
Rated current In(A)	400		630		800		
Overload long delay setting current Ir(A)	200、225、250、280、315、350、400		400、420、440、460、480、500、530、560、600、630		630、640、660、680、700、720、740、760、780、800、		
Rated operational voltage Ue(V)	AC400V/415V		AC660V/690V				
Rated insulation voltage Ui(V)			1000V				
Rated impulse withstand voltage Uimp(V)			12000V				
Arc distance(mm)	≥100 (0) <sup>2)</sup>		≥100 (0) <sup>2)</sup>		≥100 (0) <sup>2)</sup>		
Breaking capacity level	M	H	M	H	M	H	
Ultimate short-circuit breaking capacity Icu(kA)	AC400V/415V	65	100	65	100	65	100
	AC660V/690V	20	20	20	20	20	20
Service short-circuit breaking capacity Ics(kA)	AC400V/415V	50	65	50	75	50	75
	AC660V/690V	15	15	15	15	15	15
Rated short-time withstand current Iw(kA)/1s	8		10		10		
Use category	B		B		B		
Electrical service life(times)		7500	7500		7500		
Mechanical service life(times)	without maintenance	10000	10000		10000		
	with maintenance	20000	20000		20000		
Outline dimensions (mm)	W(3P/4P)	150/198	210/280		210/280		
	L	257	280		280		
	H(not including handle)	106.5	115.5		115.5		

\*Note:

According to GB/T14048.1, the term of "service life" indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.

\*\*Note:

Choose the height of 6.2mm zero arc cover for 125 frame, 7.5mm for 250 frame, 9.3mm for 400 frame, 9.5mm for 800frame, realizing zero arc.

# ASKM1L THERMOMAGNETIC LEAKAGE PROTECTION MOLDED CASE CIRCUIT BREAKER

## SELECTION TABLE

Molded case circuit breaker		125			VA: VA Type												
Production code		250	P: electric operating mechanism		W: W Type												
		400	Z: rotate handle operation		V :Type is default. "V" can be omitted												
		630	No code: direct handle operation		U: U Type		Rated current										
		Frame rating (Inm)	Operation method		Residual current tripper type		16A ~ 630A										
		Leakage (residual current) protection function	00: no accessory		TH: humid tropical												
		Function Derivation Code	Refer to catalog for details		No code: normal												
			Internal accessories		Special code of N pole type		Use environment										
ASK	M	1	L	100	L	P	4	3	00	2	B	W	II	TH	R	125A	
Design serial		Rated ultimate short-circuit breaking capacity		No. of poles		Usage		Leakage alarm module code									
		L: standard		3: 3 poles		2: motor protection		I :leakage tripping and alarm									
		M:medium-high		4: 4 poles		No code: power distribution		II :leakage alarm without tripping									
								No code: without above modules									
Company				Tripper code												Installation wiring method	
AISIKAI ELECTRIC				2: electromagnetic tripper, only have short-circuit protection												No code: front wiring	
				3: composite tripper, have short-circuit protection and overload protection												front extended wiring	
				Note: both 2 and 3 have residual current trippers												R: rear wiring	
																PF: plug in front wiring	
																PR: plug in rear wiring	
																D: draw out wiring	

Note:

the special code of N pole type(for 4 poles products only. The default type is B if there is no special instructions when ordering)

A: N poles does not have over-current tripper. N pole is always closed and does not break/close along with the other three poles.

B: N poles does not have over-current tripper. N pole breaks/closes along with the other three poles. N pole is equipped with "first close, then split" function as standard.

C: N poles has over-current tripper. N pole breaks/closes along with the other three poles. N pole is equipped with "first close, then split" function as standard.

D: N poles has over-current tripper. N pole is always closed and does not break/close along with the other three poles.



Design marking	Model description 1: ASKM1L-125LP / 4300 / 2BWITH / R,In=125A	Model description 2: ASKM1L-250M / 3300 / A , In=250A
	<ol style="list-style-type: none"> <li>1. leakage protection molded case circuit breaker, 125A frame, standard breaking capacity, electric operation.</li> <li>2. 4 poles, composite tripper, no accessory.</li> <li>3. for motor protection. N poles does not have over-current tripper. W type residual current tripper, leakage alarm without tripping(leakage alarm and tripping is optional ), humid tropical type.</li> <li>4. rear wiring, rated current 125A.</li> </ol>	<ol style="list-style-type: none"> <li>1.leakage protection molded circuit breaker, 250A frame, medium-high breaking capacity, direct manual operation(implicit).</li> <li>2.3 poles, composite tripper, no accessory.</li> <li>3.For power distribution. N poles does not have over-current tripper. N pole is always closed and does not break/close along with the other three poles</li> <li>V type residual current tripper, no leakage alarm module, normal environment(implicit).</li> <li>4.rated current 250A.</li> </ol>



# ASKM1L THERMOMAGNETIC LEAKAGE PROTECTION MOLDED CASE CIRCUIT BREAKER

## MAIN TECHNICAL PARAMETERS



Model		ASKM1L - 125		ASKM1L - 250	
No. of poles		3P/4P		3P/4P	
Frame rating current Inm(A)		125		250	
Rated current In(A)		16、20、25、32、40、50、63、80、100、125		100、125、140、160、180、200、225、250	
Rated insulation voltage Ui(V)		AC400V		AC400V	
Rated impulse withstand voltage Uimp(V)		AC800V			
Rated operational voltage Ue(V)		8000		8000	
Arc distance(mm)		≥ 50 (0) <sup>2)</sup>		≥ 50 (0) <sup>2)</sup>	
Breaking capacity level		L	M	L	M
Ultimate short-circuit breaking capacity Icu(kA)		AC400V		35 50	
Service short-circuit breaking capacity Ics(kA)		AC400V		35 50	
Rated residual action current	AC type residual current protection	U type residual current protection		0.03 / 0.1 / 0.3 / 0.5	
		V type tripper, switchable between non-delay and delay		1.0 / 0.3 / 0.5	
		W type tripper, switchable between non-delay and delay		0.3 / 1 / 3 / 10	
	A type residual current protection	VA type tripper, switchable between non-delay and delay		0.1 / 0.3 / 0.5	
Use category		A		A	
Rated residual non-action current		½ IΔn		½ IΔn	
Rated residual short-circuit making(breaking) capacity		¼ Icu		¼ Icu	
Electrical service life(times)		8000		8000	
Mechanical service life(times)	without maintenance	20000		20000	
	with maintenance	40000		40000	
Outline dimensions		W(3P/4P)		92/122	
		L		150	
		H(not including handle)		92	
				107/142	
				165	
				90	


Note:

- 1)According to GB/T14048.1, the term of "service life" indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.
- 2)Choose the height of 6mm zero arc cover for 125 frame, 7.5mm for 250 frame, 9.3mm for 400 frame, 9.5mm for 800frame, realizing zero arc.

ASKM1L THERMOMAGNETIC LEAKAGE PROTECTION MOLDED CASE CIRCUIT BREAKER

MAIN TECHNICAL PARAMETERS



Model		ASKM1L - 400	ASKM1L - 630
No. of poles		3P/4P	3P/4P
Frame rating current Inm(A)		400	630
Rated current In(A)		225、250、315、350、400	400、500、630
Rated insulation voltage Ui(V)		AC400V	AC400V
Rated impulse withstand voltage Uimp(V)			
Rated operational voltage Ue(V)		8000	8000
Arc distance(mm)		≥100 (0) <sup>2)</sup>	≥100 (0) <sup>2)</sup>
Breaking capacity level		M	M
Ultimate short-circuit breaking capacity Icu(kA)		50	50
Service short-circuit breaking capacity Ics(kA)		35	35
Rated residual action current	AC type residual current protection	Utype residual current protection	---
		V type tripper, switchable between non-delay and delay	0.1 / 0.3 / 0.5
		W type tripper, switchable between non-delay and delay	1 / 3 / 10 / 30
	A type residual current protection	VA type tripper, switchable between non-delay and delay	0.1 / 0.3 / 0.5
Use category		A	A
Rated residual non-action current		½ I△n	½ I△n
Rated residual short-circuit making(breaking) capacity		¼ Icu	¼ Icu
Electrical service life(times)		7500	7500
Mechanical service life(times)	without maintenance	10000	10000
	with maintenance	20000	20000
Outline dimensions			
	W(3P/4P)	150/198	210/280
	L	257	280
	H(not including handle)	106.5	115.5

Note:

1)According to GB/T14048.1, the term of “service life” indicates the probability that an appliance will complete a number of operating cycles before repairing or replacing a component.

2)Choose the height of 6mm zero arc cover for 125 frame, 7.5mm for 250 frame, 9.3mm for 400 frame, 9.5mm for 800frame, realizing zero arc.

## DECLARATION

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The company reserves the right to modify the product specifications described in this manual without notice. Please consult the local agent before ordering. You have obtained the latest specifications of this product.



AIKAI-2022OSG-ASKM1-V1.0



Wechat



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