

Circuit protector CP

KCP Series

Part number description

KCP	- 3	1	2	3	4	5
1 Pole	1 : 1P	2 : 2P	3 : 3P			
2 Mounting	AN : Din rail					
3 Tripping characteristics	M : medium speed type					
4 Rated current	1A	2A	3A	5A		
	7A	10A	15A	20A		
	25A	30A				
5 Option	none: normal			AX : Auxiliary contact		

※ Rated currents of 0.1A, 0.3A, 0.5A, 0.7A, 13A are on demand.







General Specification

Part number		KCP-31ANM	KCP-32ANM	KCP-33ANM
Pole		1POLE	2POLE	3POLE
Rated current In (A)		1, 2, 3, 5, 7, 10, 15, 20, 25, 30		
Rating	Rated voltage Ue	AC(V)	250	250
		DC(V)	60	120
Insulation Resistance		100MΩ min (500V type insulation resistance tester) ¹		
Rated breaking capacity(kA)	UL1077	250VAC	1.5kA	
	CCC GB17701	60VDC	1.5kA	
	PSE	120VDC	-	note ¹
	CE EN60934	120VDC	-	1.5kA
	IEC60934	250VAC	2.5kA	
	KC KC60934	60VDC	2.5kA	
		120VDC	-	2.5kA
Durability	Mechanical	10,000 time		
	Electrical	6,000 time		
Weight		58g	114g	170g
Reference ambient temperature		+40°C		
Ambient temperature		-10 ~ +60°C		
Ambient Humidity		0 ~ 85%		
Withstand voltage		AC1500V (50/60Hz) 1 minute		
Vibration Resistant		15G(147m/S ²) IEC60068-2-6		
Shock Resistance		50G(500m/S ²) IEC60068-2-27		
Trip method		ODP		
Mounting method		DIN - RAIL		
Contact terminal tork		main terminal : 20A and under M4 : 1.2~1.5N.m 25A and over M5 : 1.8~2.2N.m		aux terminal : M3.0 : 0.8 ~ 1.0 N.m
Internal circuit	Series trip	S	Overload and short circuit protection	
	Switch only	O	Open/Close	
	Aux switch	W	Identification of open/close motion status	
Aux contact capacity		DC30V 3A / AC250V 3A		
Approval standard	KC	KC60934		
	UL	UL1077		
	CE	IEC60934		
	CCC	GB17701		
	PSE	JET6977		
	CB	IEC 60947-2		

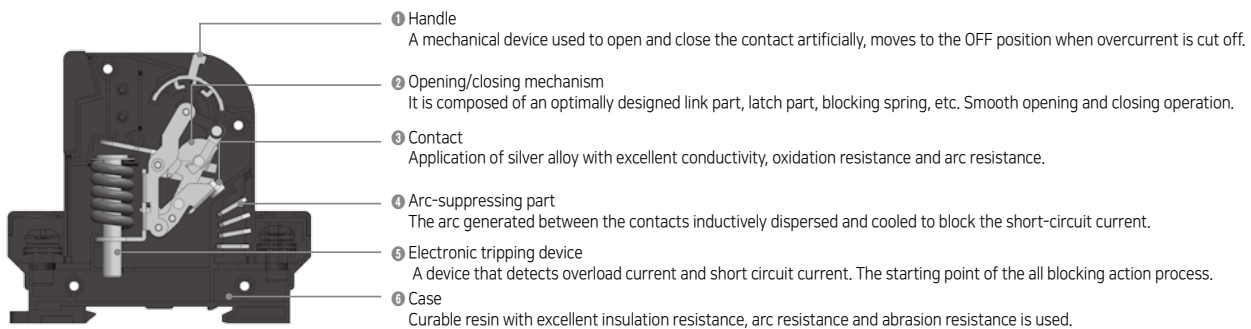
※note¹ : The 3-pole model is for AC only.



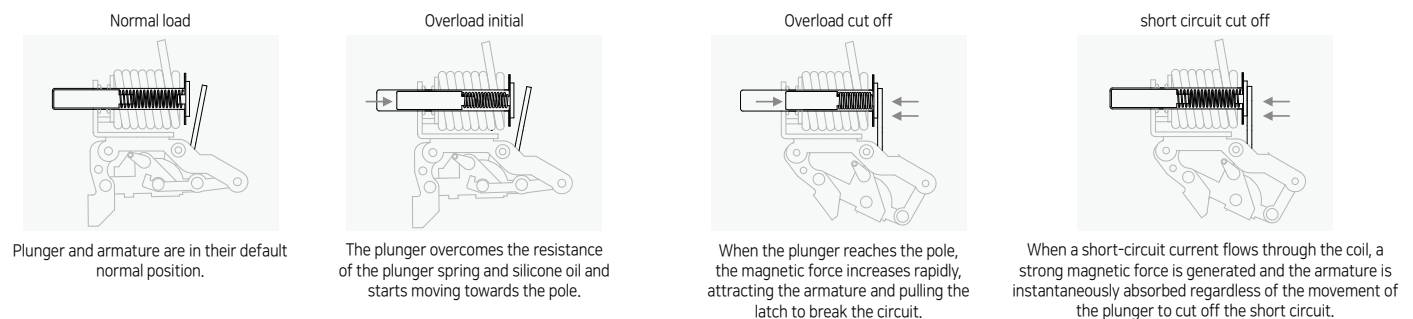
Product Selection

Normal type			Auxiliary type		
Pole	Rated current In (A)	Part number	Pole	Rated current In (A)	Part number
1P 	1A	KCP-31ANM1A	1P 	1A	KCP-31ANM1AAX
	2A	KCP-31ANM2A		2A	KCP-31ANM2AAX
	3A	KCP-31ANM3A		3A	KCP-31ANM3AAX
	5A	KCP-31ANM5A		5A	KCP-31ANM5AAX
	7A	KCP-31ANM7A		7A	KCP-31ANM7AAX
	10A	KCP-31ANM10A		10A	KCP-31ANM10AAX
	15A	KCP-31ANM15A		15A	KCP-31ANM15AAX
	20A	KCP-31ANM20A		20A	KCP-31ANM20AAX
	25A	KCP-31ANM25A		25A	KCP-31ANM25AAX
	30A	KCP-31ANM30A		30A	KCP-31ANM30AAX
2P 	1A	KCP-32ANM1A	2P 	1A	KCP-32ANM1AAX
	2A	KCP-32ANM2A		2A	KCP-32ANM2AAX
	3A	KCP-32ANM3A		3A	KCP-32ANM3AAX
	5A	KCP-32ANM5A		5A	KCP-32ANM5AAX
	7A	KCP-32ANM7A		7A	KCP-32ANM7AAX
	10A	KCP-32ANM10A		10A	KCP-32ANM10AAX
	15A	KCP-32ANM15A		15A	KCP-32ANM15AAX
	20A	KCP-32ANM20A		20A	KCP-32ANM20AAX
	25A	KCP-32ANM25A		25A	KCP-32ANM25AAX
	30A	KCP-32ANM30A		30A	KCP-32ANM30AAX
3P 	1A	KCP-33ANM1A	3P 	1A	KCP-33ANM1AAX
	2A	KCP-33ANM2A		2A	KCP-33ANM2AAX
	3A	KCP-33ANM3A		3A	KCP-33ANM3AAX
	5A	KCP-33ANM5A		5A	KCP-33ANM5AAX
	7A	KCP-33ANM7A		7A	KCP-33ANM7AAX
	10A	KCP-33ANM10A		10A	KCP-33ANM10AAX
	15A	KCP-33ANM15A		15A	KCP-33ANM15AAX
	20A	KCP-33ANM20A		20A	KCP-33ANM20AAX
	25A	KCP-33ANM25A		25A	KCP-33ANM25AAX
	30A	KCP-33ANM30A		30A	KCP-33ANM30AAX

Product structure



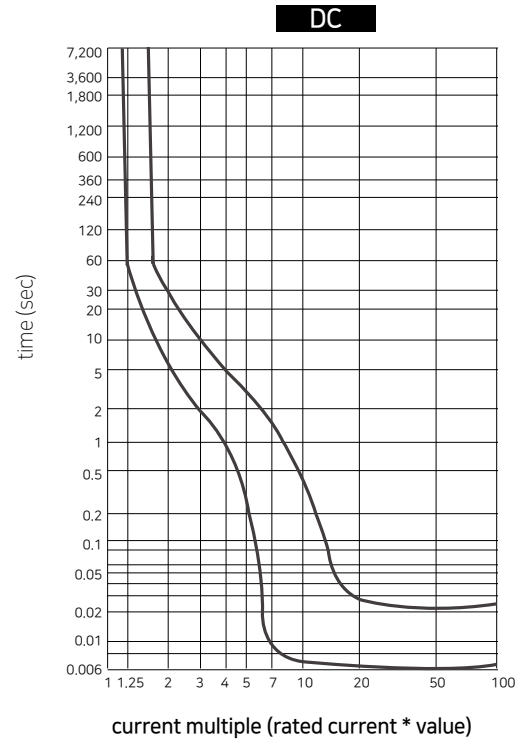
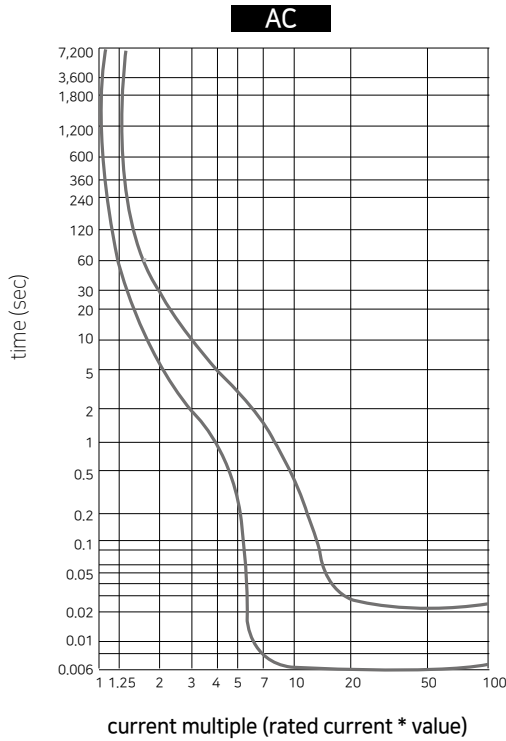
Principle of operation



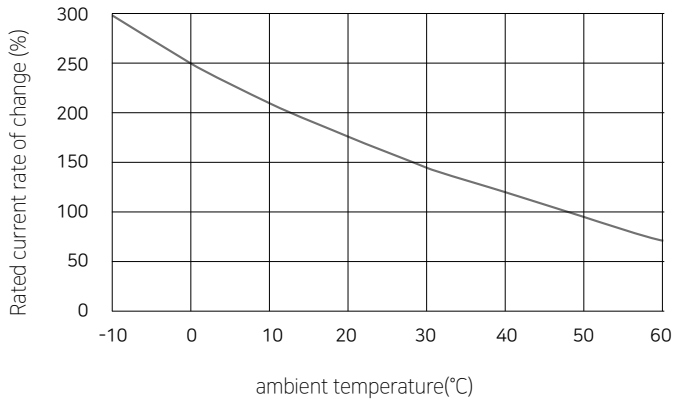
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Working characteristic curve

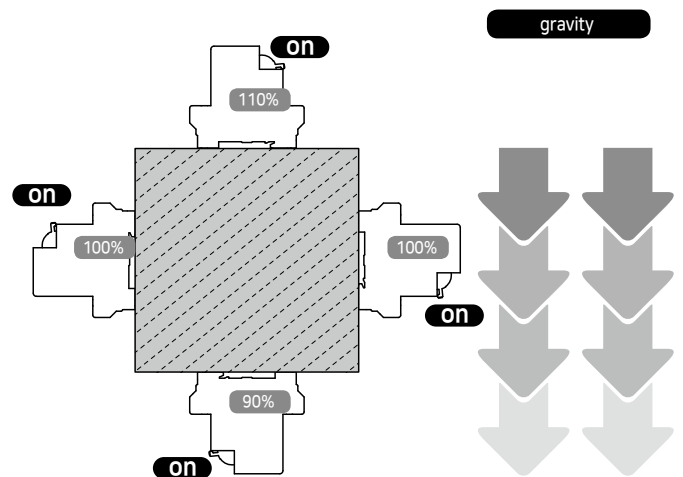


Compensation of operating time according to ambient temperature



※ The operating time of KCP is based on 40°C and its characteristics change depending on the ambient temperature. It is recommended to use the calibration by referring to the ambient temperature calibration curve.

Current ratio according to installation angle

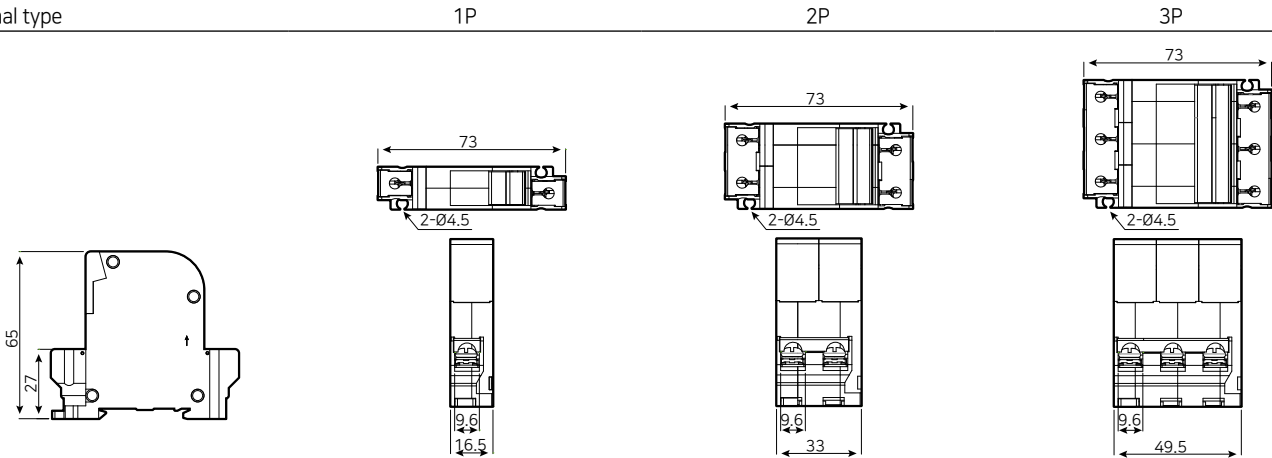


※ Depending on the angle of installation, the rate of current will be different under the influence of gravity. It is recommended to apply in consideration of this ratio.

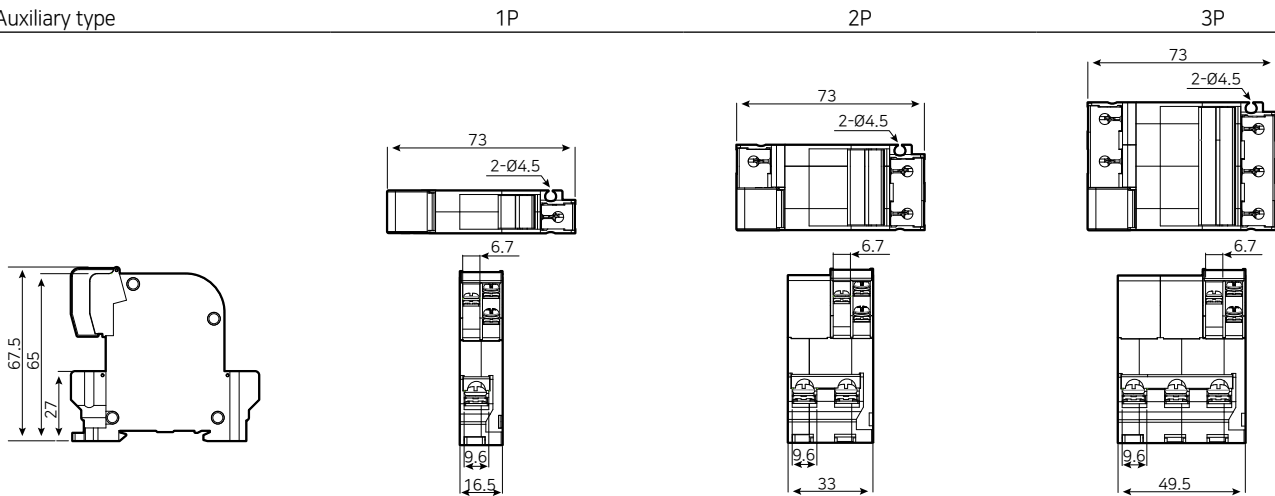
Dimension

unit : mm

Normal type

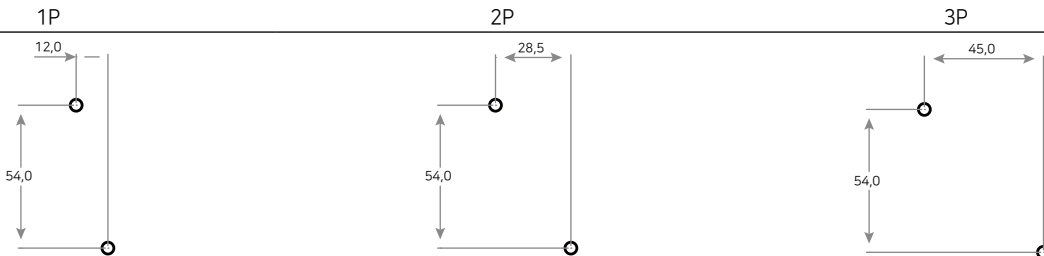


Auxiliary type



Panel Cut-Out

unit : mm



Precautions for use

Precautions for handling circuit protector

1. Select a model with the correct capacity considering the rated voltage and current of the model.
Incorrect model selection may cause malfunction or damage.
2. It must be installed in the normal installation direction, and it must be securely fixed to the installation surface. If the installation direction is changed, the blocking characteristics change.
3. Use it in a location where there is no dust or foreign matter as possible, with good ventilation, and connect a wire with sufficient current capacity to the terminal securely.
4. To prevent malfunction and maintain blocking performance, avoid direct sunlight and install in a place with ventilation holes.
5. When storing, avoid a humid place, and keep the handle in the OFF state.
6. Be careful not to drop during transportation. Impact may cause malfunction or damage.