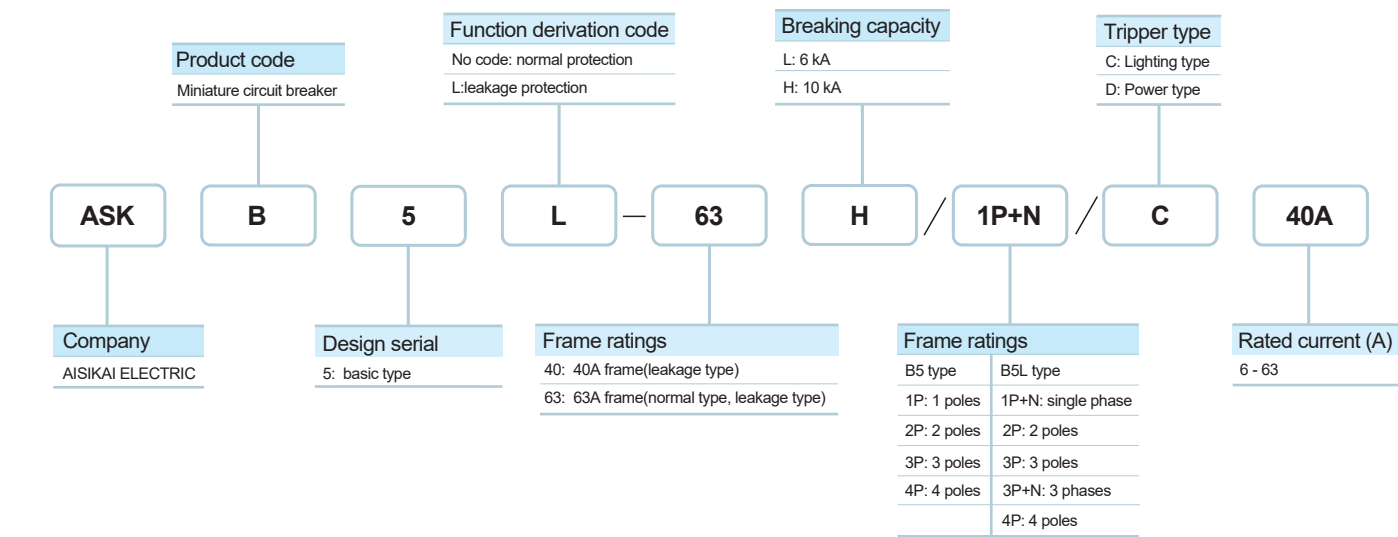
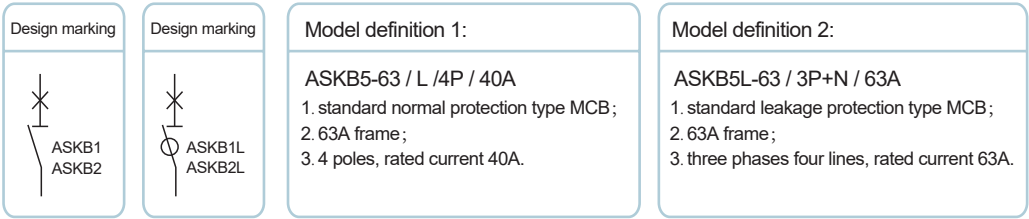


ASKB5 MINIATURE CIRCUIT BREAKER SELECTION TABLE



Frame Classification:

Normal type(63A frame)
Leakage protection type(L type, 40A frame, 63A frame)



QUALIFICATION DOCUMENTS



ASKB5 NORMAL PROTECTION MINIATURE CIRCUIT BREAKER

OVERVIEW



ASKB5 normal protection type miniature circuit breaker has features as advanced structure, reliable performance, high breaking capacity, beautiful and compact appearance, etc. Shell and three parts are made of impact resistant and high flame retardant materials. ASKB5 are suitable for AC 50Hz or 60Hz, rated operational voltage below 400V, rated current below 63A. MCB are mainly used for the overload and short-circuit protection of lines and equipment in lighting and power distribution in office buildings, residences and similar buildings. Under normal conditions, MCB can also be used in infrequent on-off control of electrical devices and lighting lines.

CLASSIFICATION

- Classified by the over-current tripper rated current (A)
Frame 63: 6, 10, 16, 20, 25, 32, 40, 50, 63A
- Classified by over-current tripper type
C type: protect inductive load and high-inductive lighting system
tripping characteristic: instantaneous trip range(5-10)In
D type: protect high-inductive load and impact load with high starting current
(motors, transformers, etc.)
tripping characteristic: instantaneous trip range(10-16)In

FEATURES

- Innovative structural design. Breaking capacity up to 10KA
Shell with ventilation slot design, active heat dissipation, reduce temperature rise
Composite high conductive material. Longer service life
Ergonomic operation design, non-slip handle for easy operation

APPLICATIONS







NORMAL OPERATIONAL CONDITIONS AND INSTALLATION METHODS

Category	Requirement
Operational temperature	Between -5℃ and +40℃. The average value in 24 hours does not exceed +35℃.
Altitude	Lower than 2000 meters.
Operational humidity	The relative humidity at +40℃ shall not exceed 50%. Higher relative humidity is allowed at lower temperature. The average maximum relative humidity is 90% in the most humid month
Installation level	The installation level is II, III.
Pollution level	Level 2
Installation method	Install vertically or horizontally. Use YH35-7.5 standard DIN rail.
Installation conditions	The inclination of the mounting surface to the vertical surface does not exceed 5 degrees. Use environment should be without strong impact and vibration.
Wiring method	Fasten the wires using screws.
Wire inlet method	Wiring reversely is acceptable for normal type. Wiring reversely is prohibited for leakage type.

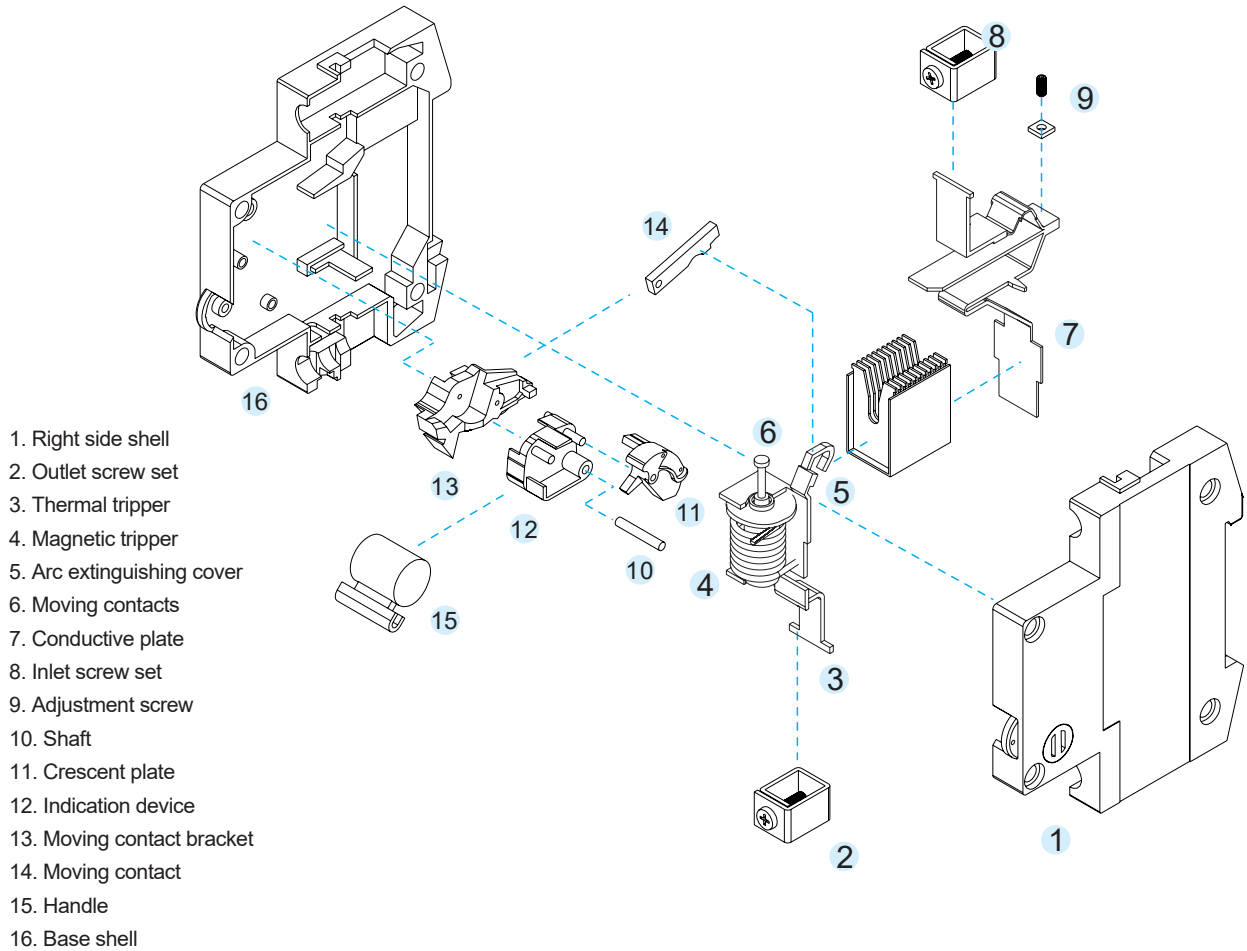
STANDARDS

GB10963.1、IEC60898-1

MAIN TECHNICAL PARAMETERS

63 Frame				
General power distribution protection				
<div><div></div><div></div><div></div><div></div></div>				
No. of poles				
<div><div>1P</div><div>2P</div><div>3P</div><div>4P</div></div>				
Electrical performance				
Functions				
Short-circuit protection, overload protection, isolation, control				
Rated frequency				
<div><div>f</div><div>(Hz)</div><div>50/60</div></div>				
Rated operational voltage				
<div><div>Ue</div><div>(V AC)</div><div>230/400</div><div>400</div><div>400</div><div>400</div></div>				
Rated current				
<div><div>In</div><div>(A)</div><div>6, 10, 16, 20, 25, 32, 40, 50, 63</div></div>				
Impulse withstand voltage				
<div><div>Uimp</div><div>(kV)</div><div>4</div></div>				
Rated insulation voltage				
<div><div>Ui</div><div>(V)</div><div>500</div></div>				
Instantaneous tripping type				
<div><div>C/D</div></div>				
Rated short-circuit capacity				
<div><div>Icu</div><div>(kA)</div><div>L</div><div>H</div><div>Icu=Ics=6</div><div>Icu=Ics=10</div></div>				
Tripper type				
<div><div>Thermomagnetic</div></div>				
Service life				
<div><div>(0 ~ C)</div><div>Mechanical service life</div><div>20000</div><div>Electrical service life</div><div>10000</div></div>				
Control and indication				
Optional accessories(multiple options available)				
Alarm contact SD, auxiliary contact OF, shunt tripper MX+OF or over-voltage under-voltage tripper MN+MV (choose one of the two)				
Connection and installation				
Protection level				
<div><div>Ip20</div></div>				
Handle lock				
<div><div>None</div></div>				
Wiring capacity				
<div><div>(mm²)</div><div>1~25</div></div>				
Operational temperature				
<div><div>(℃)</div><div>-5 ~ +40</div></div>				
Resistance to heat and humidity				
<div><div>2</div></div>				
Altitude				
<div><div>(m)</div><div>≤2000</div></div>				
Air relative humidity				
<div><div>Not exceed 95% at +20℃ ; not exceed 50% at +40℃</div></div>				
Pollution level				
<div><div>2</div></div>				
Installation environment				
<div><div>Without strong impact and vibration</div></div>				
Installation category				
<div><div>II ; III</div></div>				
Installation method				
<div><div>DIN standard rail</div></div>				
Outline dimensions				
<div><div><div><div><div>a</div><div>b</div></div><div><div>c</div></div></div><div><div>a</div><div>b</div><div>c</div></div></div><div><div>18</div><div>36</div><div>54</div><div>72</div></div></div>				
Width*Height*Depth (mm)				
<div><div>83</div></div>				
<div><div>78</div></div>				

MAIN STRUCTURE INTRODUCTION



Structure overview	Working method	Magnetic tripper	Thermal tripper	Arc extinguishing cover
Normal protection type miniature circuit breaker is one-piece structure, which is made of precise combination of internal parts. The left and right shells enclose the operating mechanism, moving/fixed contacts, thermal tripper, magnetic tripper, and arc extinguishing cover. Manual operation is used for open/close operation.	Miniature circuit breakers achieve the on-off of the circuit through the manual operation on the open/close handles. When the circuit is short-circuited or seriously overloaded, the magnetic tripper pushes the free tripping mechanism into action and the main contact breaks the main circuit. When the circuit is overloaded, the thermal tripper pushes the free tripping mechanism into action, breaking the main circuit to realize the protection of the distribution lines.	The coil of the magnetic tripper is connected in series with the main circuit. When the circuit is short-circuited or seriously overloaded, the magnetic tripper generate magnetic force due to electromagnetic induction, instantly making the armature pull in, pushing the free tripping mechanism into action and the main contact breaks the main circuit.	The coil of the thermal tripper is connected in series with the main circuit. When the circuit is overloaded, the thermal component of the thermal tripper heats up due to the increasing current, bending the bimetal strip, pushing the free tripping mechanism into action within a certain period of time and completing the protection breaking.	MCB adopts multi-layer stacked arc extinguishing cover. Its mounting position is below the contact. Each piece of arc extinguishing plate is at an angle of 60 degrees from the horizontal plane. In the breaking process, through the electromagnetic field induction force and the air flow, the arc is instantly imported into the arc extinguishing cover, realizing rapid arc extinguishing.