

SQ ACCESSORIES
Speaks Safety & Quality



PROMISING
THE BEST
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SQ CIRCUIT BREAKER

AM 1 SERIES MOULDED CASE CIRCUIT BREAKER

1. Application

AM1 series moulded case circuit breaker is one of products developed and manufactured by adopting international advanced technology. It is supplied with rated insulating voltage 500V and 800V and used for the circuit of AC 50/60Hz, rated operating voltage AC 400V (or below), rated operating current up to 1600A for infrequently changing over and starting of the motors. The products conform to IEC60947-2 standard.

2. Main Technical Specification

Type	Rated current (A)	Pole	Rated insulating voltage (V)	Rated operating voltage (V)	Arcing over distance (mm)	Ultimate short circuit breaking capacity (kA)	Service short circuit breaking capacity (kA)	Operation performance		
								Load	Unload	Utilization category
AM1-63L AM1-63M	(6),10,16 20,25,32 40,50,63	3,4	500V	400V	0	25	18	1500	8500	A
AM1-125L AM1-125M	(10),16,20,25 32,40,50,63 80,100,125				0(≤50)	35	22			
AM1-250L AM1-250M	100,125,160 180,200,225				≤50	50	35			
AM1-400L AM1-400M	225,250,315 350,400				≤50	50	35			
AM1-630L AM1-630M	400,500,600		≤100	65	42	1000	4000			
AM1-800M	630,700,800		≤100	50	35					
AM1-1250M	1000,1250		≤100	65	42					
AM1-1600M	1600		≤100	75	50					
			≤100	100	65					
			≤100	150	80					

Note : 6A without thermal protection. The N-pole of four-poles breaker is sited at the right side of the product has four types:

Type A : Without current trip-release on N pole which making all the time, not closing and opening with the other three poles.

Type B : Without current trip-release on N pole which closing and opening with the other poles.

Type C : With current trip-release which closing and opening with the other three poles.

Type D : With current trip release which making all the time not closing & opening with the other three poles.

3. Protection Characteristics

The thermodynamic release of a circuit breaker provides the feature of inverse time-delay, while the magnetic release is the instantaneous operation as shown table 2 (distribution circuit breaker).



MCCB (TP)
FIXED-25KA-40A



MCCB (TP)
FIXED-25KA-63A



MCCB (TP)
FIXED-35KA-100A



MCCB (TP)
FIXED-35KA-160A



MCCB (TP)
FIXED-35KA-200A



MCCB (TP)
FIXED-35KA-250A

ADB7-63 SERIES MINIATURE CIRCUIT BREAKER (10KA)

1. Application

ADB7-63 Miniature Circuit Breaker combines the following functions:

- Protection of circuit against short-circuit current
- Protection of circuit against overloaded current
- Control
- Isolation

It's mainly suitable for low voltage terminal electrical distribution in the residential houses, building, etc.

Type B : Non-inductive or micro-inductive circuit

Type C : Lighting distribution circuit

Type D : Industrial distribution system

2. Standards & Certificates

- Comply with standards IEC60898-1/GB10963.1
- Obtain the certificates of CCC,KEMA,CB

3. Type and Meaning

Pole	Breaking capacity I _{cn} (kA)	Rated current I _n (A)	Tripping type		
			B	C	D
1P	10	6	ADB7-6 1P/2P/3P	ADB7-6 1P/2P/3P	ADB7-6 1P/2P/3P
		10	ADB7-10 1P/2P/3P	ADB7-10 1P/2P/3P	ADB7-10 1P/2P/3P
		16	ADB7-16 1P/2P/3P	ADB7-16 1P/2P/3P	ADB7-16 1P/2P/3P
		20	ADB7-20 1P/2P/3P	ADB7-20 1P/2P/3P	ADB7-20 1P/2P/3P
		25	ADB7-25 1P/2P/3P	ADB7-25 1P/2P/3P	ADB7-25 1P/2P/3P
		32	ADB7-32 1P/2P/3P	ADB7-32 1P/2P/3P	ADB7-32 1P/2P/3P
		40	ADB7-40 1P/2P/3P	ADB7-40 1P/2P/3P	ADB7-40 1P/2P/3P
		50	ADB7-50 1P/2P/3P	ADB7-50 1P/2P/3P	ADB7-50 1P/2P/3P
3P		63	ADB7-63 1P/2P/3P	ADB7-63 1P/2P/3P	ADB7-63 1P/2P/3P

SINGLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-10
Pole: SP (Single Pole)
Tripping Type: C



Model: ADB7-63
Pole: SP (Single Pole)
Tripping Type: C

DOUBLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: DP (Double Pole)
Tripping Type: C



Model: ADB7-63
Pole: DP (Double Pole)
Tripping Type: C

TRIPLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: TP (Triple Pole)
Tripping Type: C



Model: ADB7-63
Pole: TP (Triple Pole)
Tripping Type: C



DZ50-63 SERIES MINIATURE CIRCUIT BREAKER (6.0KA)

SINGLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: SP (Single Pole)
Tripping Type: C



Model: ADB7-63
Pole: SP (Single Pole)
Tripping Type: C

DOUBLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: DP (Double Pole)
Tripping Type: C



Model: ADB7-63
Pole: DP (Double Pole)
Tripping Type: C

TRIPLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: TP (Triple Pole)
Tripping Type: C



Model: ADB7-63
Pole: TP (Triple Pole)
Tripping Type: C

DZ50-63 SERIES MINIATURE CIRCUIT BREAKER (6.0KA)

1. Application

DZ50-63 high switch-off ability miniature circuit breaker is applicable to line of AC 50/60Hz, rated voltage 230/400V and rated current up to 63A, used for overload and short circuit protection. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to industrial enterprise, commercial distribution, high-rise building and dwelling house. It conforms with the standards of IEC60947-2.

2. Main Technical Parameter

Type			DZ50-63	
Pole			1P	2P, 3P, 4P
Rated current (A)			1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63	
Rated voltage(V)			230	400
Type of instantaneous release			B,C,D	
Rated shot circuit breaking capacity Icn(kA)				
Life (times)	1-32A	Electric life		
		Mechanical life		
		Operation frequency	hour	
	Operation frequency			
	40-63a	Electric life		
		Mechanical life		
Operation frequency				

3. Applicable Conducting Wire

Rated current(A)	Nominal cross section of wire (mm²)
1-6A	1
10A	1.5
16,20A	2.5
25A	4
32A	6
40,50A	10
63A	16

4. The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t ≤ 1h	Non-release	-
	Carried out immediately after previous test	1.45In	t < 1h	Release	-
	Cold position	2.55In	1 st < t < 60s (In ≤ 32A)	Release	value within 5s
	Cold position	2.55In	1 st < t < 120s (In > 32A)	Release	
-5~+40°C	Cold position	3In	t ≤ 0.1s	Non-release	Type B
	Cold position	5In	t < 0.1s	Release	Type B
	Cold position	5In	t ≥ 0.1s	Non-release	Type C
	Cold position	10In	t < 0.1s	Release	Type C
	Cold position	10In	t ≥ 0.1s	Non-release	Type D
	Cold position	20In	t < 0.1s	Release	Type D

5. Outline & Installation Dimension (mm)





DZ49-63 SERIES MINIATURE CIRCUIT BREAKER (4.5KA)

SINGLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: SP (Single Pole)
Tripping Type: C



Model: ADB7-63
Pole: SP (Single Pole)
Tripping Type: C

DOUBLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: DP (Double Pole)
Tripping Type: C



Model: ADB7-63
Pole: DP (Double Pole)
Tripping Type: C

TRIPLE POLE

PRODUCT RANGE:
6A, 10A, 16A, 20A,
25A, 32A, 40A, 50A, 63A



Model: ADB7-6
Pole: TP (Triple Pole)
Tripping Type: C



Model: ADB7-63
Pole: TP (Triple Pole)
Tripping Type: C

DZ49-63 SERIES MINIATURE CIRCUIT BREAKER (4.5KA)

1. Application

DZ49-63 is applicable to a line of AC 50/60Hz, 220V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is a lighting distribution system in industrial enterprise, commercial distribution, and high-rise dwelling house. It conforms with the standard of IEC60947-2.

2. Main Technical Parameter

Type	DZ49-63			
Pole	1P		2P, 3P, 4P	
Rated current (A)	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63			
Rated voltage(V)	230		400	
Ambient temperature	-5° C~ + 40° C			
Type of instantaneous release	C	D	C	P
Rated short Circuit breaking capacity (kA)	1-32A: 6	4.5	1-32A: 6	
	50-63A: 4		50-63A: 4	

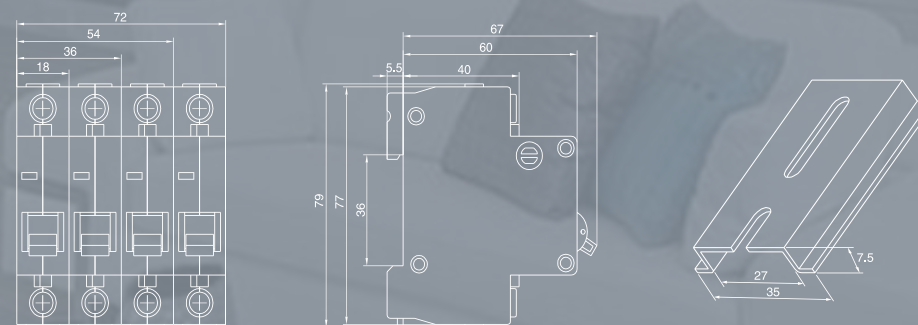
3. Applicable Conducting Wire

Rated current(A)	Nominal cross section of wire (mm ²)
1-6A	1
10A	1.5
16,20A	2.5
25A	4
32A	6
40,50A	10
63A	16

4. The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t ≤ 1h	Non-release	-
	Carried out immediately after previous test	1.45In	t < 1h	Release	-
	Cold position	2.55In	1 st < t < 60s (In ≤ 32A)	Release	value within 5s
	Cold position	2.55In	1 st < t < 120s (In > 32A)	Release	
-5~+40°C	Cold position	3In	t ≤ 0.1s	Non-release	Type B
	Cold position	5In	t < 0.1s	Release	Type B
	Cold position	5In	t ≥ 0.1s	Non-release	Type C
	Cold position	10In	t < 0.1s	Release	Type C
	Cold position	10In	t ≥ 0.1s	Non-release	Type D
	Cold position	20In	t < 0.1s	Release	Type D

5. Outline & Installation Dimension (mm)



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SUVASTU SURAIYA TRADE CENTER

Plot #57, Road #21, Kemal Ataturk Avenue,
Banani, Dhaka-1213

01755-661166 info@sq-bd.com /sqgroupbd