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- 如有更改,届时恕不另行通知!



PRODUCT CATALOGUE 产品手册

塑料外壳式断路器/小型断路器

MOULDED CASE CIRCUIT BREAKERS
MINIATURE CIRCUIT BREAKERS



联系方式 Contact us



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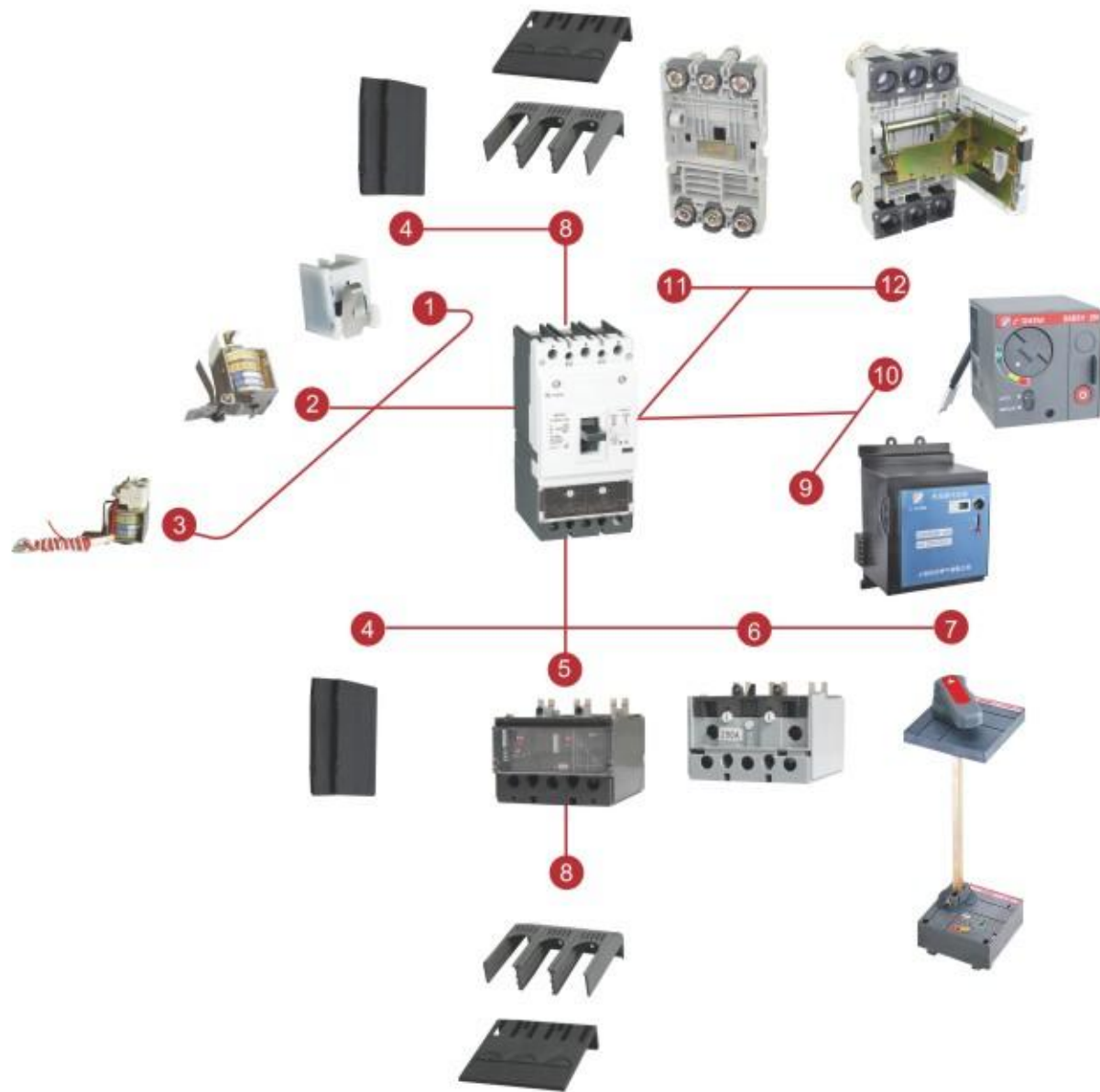
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- | | | |
|----------------------------------|------------------------------------|---|
| 1 辅助触头
Auxiliary contact | 5 电子脱扣器
Electronic release | 9 电操
Motor mechanism |
| 2 欠压脱扣器
Under-voltage release | 6 热磁脱扣器
Thermo-magnetic release | 10 电操
Electrical operating mechanism |
| 3 分励脱扣器
Shunt release | 7 手操
Handle operating mechanism | 11 插入式
Plug-in device |
| 4 隔弧板
Interface barrier | 8 插板
Terminal cover | 12 抽屉式
Draw-out device |

Types and meanings 型号及含义

DA M 1 □ - □ / □ / □ / □

- 用途代号
Application code ※
 - 脱扣器方式及附件代号 (见表二)
Release pattern and accessories code (see Table 2)
 - 极数3极无代号, 3极4线用 "3N" 表示, 4极用 "4" 表示, N极有保护用 "4B" 表示。
Pole number, empty for 3 poles, "3N" for 3-pole-4-wire, "4" for 4 poles, "4B" for N-poles with protective function.
 - 操作方式代号
Operation pattern Code ※※
 - 断路器额定电流In
Circuit breaker Rated current In
 - 派生代号
Derived code
 - 断路器壳架等级额定电流Inm
Circuit breaker Rated of frame size current Inm
 - 额定极限短路分断能力级别代号 (见表一)
Codes of different ultimate
 - 设计代号
Design code
 - 产品代号
Product Code
 - 企业代号
Code of enterprise
- 注: 用于配电的断路器无代号; 用于保护电动机的断路器以2表示。手柄直接操作无代号; 转动手柄操作用Z表示; 电动操作用D表示。
Indicates those breaker to protect motor.
※ No code for those directly operated by handle, code Z indicates those operated by rotary handle operating mechanism and indicates those operated by electric power.

DA	M	1	N	160	L	160A	3P
公司代码 Company code	产品代码 Product Code	设计代码 Design Code	分断能力代码 Breaking capacity code	壳架额定电流Inm(A) Rated frame current Inm(A)	派生代码 Derived code	额定电流In(A) Rated current In(A)	极数 Poles
			20kA	125	L-漏电 L-leakage	10A...125A	1P
			B:25kA	160	E-电子式 E-electronic	10A...160A	2P
			N:35kA	250	C-插入式、抽屉式 C-plug-in type, drawer type	63A...250A	3P
			S:50kA	400		250A...400A	4P(A): 无N极保护, 不选断 4P(A): Neutral unprotected, without on and off
			H:70kA	630		250A...630A	4P(B): 无N极保护, 带通断 4P(B): Neutral unprotected, on and off
				800		400A...800A	4P(C): N极保护, 带通断 4P(C): Neutral protected, on and off
				1600		800A...1600A	

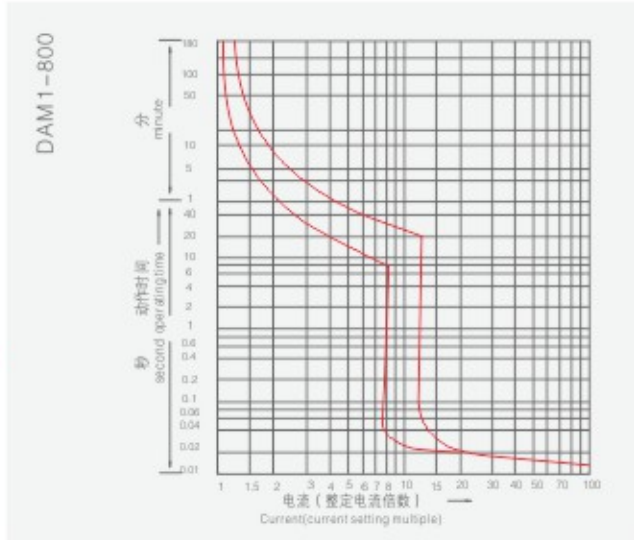
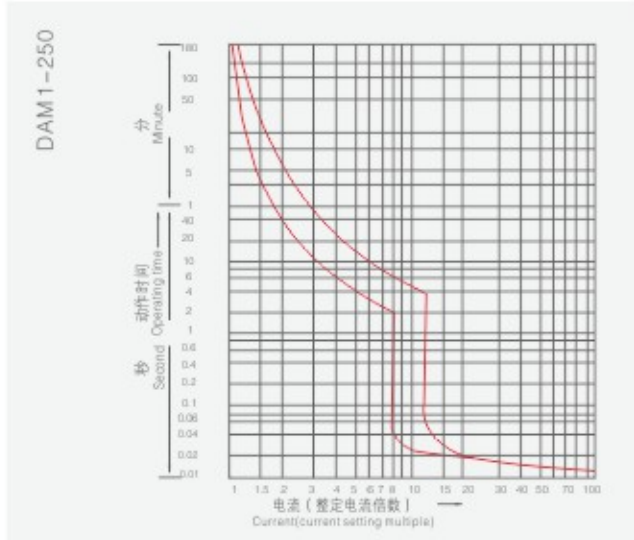
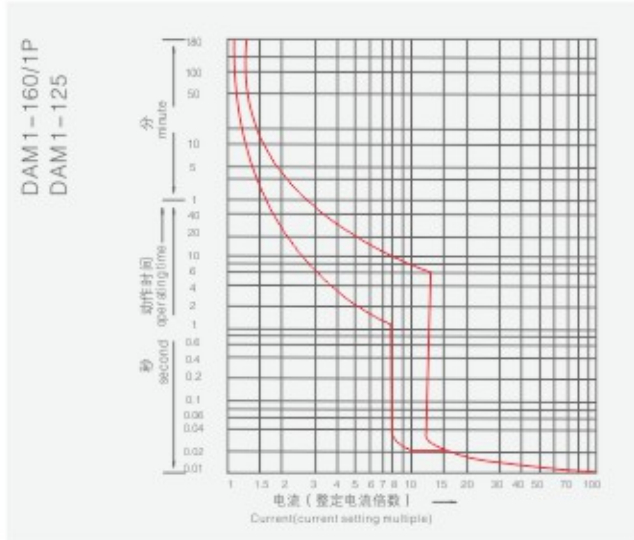


热磁式断路器 Thermal-Magnetic Circuit Breakers				
壳架 Model			DAM1-160	DAM1-200
分断能力代码 Breaking Capacity Code			B N	B N
壳架等级额定电流 Rated Current of Frame size-Inm			(A) 160A	200A
额定电流 Rated Current-In(40,50 or 55°C)			10 - 12.5 - 16 - 20 (A) 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125-160A	10 - 12.5 - 16 - 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125-160(200)A
额定绝缘电压 Rated Insulation Voltage -Ui(a.c.) 50-60Hz			(V) 750V	1000V
额定工作电压 Rated operation Voltage -Ue(a.c.) 50-60Hz			(V) 230V	400/415V
极数 Number of Pole			1P	2P
额定极限短路分断能力 Rated ultimate short Circuit breaking Capacity iku AC400V/50Hz O-CO (KA)			25 36	25 36
额定运行短路分断能力 Rated service short Circuit breaking Capacity Ics AC400V/50Hz O-CO-(KA)			18.75 27	18.75 27
额定短路接通能力 Rated short-circuit breaking capacity Icm(peak)/cos φ AC400V/50HZ O-CO (KA)			40/0.3 135/0.25	40/0.3
额定冲击耐受电压 Rated impulse withstand Voltage -Uimp			(V) 8000	8000
介电性能 Dielectric Propery (V)			2500	2500
飞弧距离 Ionization distance			(mm) ≤30/0	≤30/0
使用寿命 Endurance	总次数 Total Cycles		20000	15000
	使用电寿命 Electrical Life		3000	2500
	使用机械寿命 Mechanical Life		17000	12500
过电流脱扣 Over Current trip	热可调 Thermal release adjustable		-	-
	磁可调 Magnetic release adjustable (5In-10In)		-	-
	热磁固定式 Thermal and Magnetic release fix type		✓	✓
使用类别Category (EN 60947-2/ IEC 60947-2)	主电路 Main circuit		A/0	A/0
	辅助电路及控制电路 Auxiliary circuit		AC-15	AC-15
欠压脱扣器 Under Voltage Release			-	✓
分励脱扣器 Shunt Release			-	✓
辅助触头 Auxiliary Contact			-	-
报警触头 Alarm Contact			-	-
辅连报触头 Auxiliary Contact and Alarm Contact			-	-
手操 Handle Operation Mechanism			-	-
电操 Electrical Operation Mechanism			-	-
挂扣 DIN clips			✓	✓
插板 Terminal cover			-	-
隔板 Phase seperator			-	✓
加长手柄 Extention Handle			-	-
外形尺寸 Outline dimensions	宽W (mm)	3P	30	60
		4P	-	-
	长L (mm)	3P	120	120
		4P	-	-
	厚H (mm)	3P	70	70
		4P	-	-
重量 Weight	固定式 Fixed version 3P/4P		0.92/1.3	0.92/1.3
	插入式 Plug-in version 3P/4P		-	-
	抽出式 Draw out version 3P/4P		-	-



DAM1-125			DAM1-160			DAM1-250				DAM1-630(400)				DAM1-800				DAM1-1600		
B	N		B	N	S	N	S	H	G	N	S	H	G	N	S	H	G	S	H	G
125A			160A			250A				400A				800A				1600A		
10 - 12.5 - 16 - 20 - 25 - 32(30) - 40 - 50 - 63(60) - 80 - 100 - 125A			10 - 12.5 - 16 - 20 - 25 - 32 - 40 - 50 - 63 - 80 - 100 - 125 - 160(150)A			63 - 80 - 100 - 125 - 160(180) - 200(225) - 250(320)A				250 - 315 (350) - 400 - 500 - 630A				400 - 500 - 630 (700) - 800 - 1000A				800 - 1000 - 1250 - 1600A		
1000V			1000V			1000V				1000V				1000V				1000V		
400/415V			400/415V			400/415V				400/415V				400/415V				400/415V		
3P / 4P			3P / 4P			3P / 4P				3P / 4P				3P / 4P				3P / 4P		
25	35	20	25	35	50	35	50	65	85	35	50	70	85	35	50	70	85	65	85	100
12.5	17.5	20	12.5	26.25	37.5	26.25	37.5	48.75	51	26.25	37.5	52.5	52.5	35	37.5	52.5	52.5	50	50	50
40/0.3	73.5/0.25	40/0.3	41/0.3	73.5/0.25	110/0.25	77/0.25	114/0.25	143/0.2	178/0.2	70/0.25	110/0.25	154/0.2	187/0.2	77/0.25	100/0.25	154/0.2	187/0.2	105/0.25	143/0.2	220/0.2
8000			8000			8000				8000				8000				8000		
2500			3000			3000				3000				3000				3000		
≤30/0			≤30/0			≤30/0				≤60/0				≤80/0				≤80/0		
14000			8000			8000				5000				5000				3000		
4000			1000			1000				1000				1000				500		
10000			7000			7000				4000				4000				2500		
-			Min:0.7In -Max:1In			Min:0.7In -Max:1In				Min:0.7In -Max:1In				Min:0.7In -Max:1In				Min:0.7In -Max:1In		
-			-			-				-				-				-		
✓			✓			✓				✓				✓				✓		
A/0			A/0			A/B				A/B				A/B				A/B		
AC-15			AC-15			AC-15				AC-15				AC-15				AC-15		
✓			✓			✓				✓				✓				✓		
✓			✓			✓				✓				✓				✓		
✓			✓			✓				✓				✓				✓		
✓			✓			✓				✓				✓				✓		
✓			✓			✓				✓				✓				✓		
✓			✓			✓				✓				✓				✓		
-			-			-				-				-				-		
✓			✓			✓				✓				✓				✓		
76			90			105				140				210				210		
101			120			140				184				280				280		
120			120			170				255				268				406		
120			120			170				255				268				406		
70			70			103.5				103.5				103.5				138.5		
70			70			103.5				103.5				103.5				138.5		
0.92/1.3			1.2/1.6			2.7/3.5		41.5/5.5		5.1/7.1		9.6/12.5		17.2/22.2						
1.2/1.5			1.4/1.8			3.2/4.2		4.6/6		6.5/8.5		-		-						
-			-			3.6/4.6		5/6.4		6.5/8.7				12.2/15.3				22/30.1		

Protective Curve 特性曲线



热磁式断路器
Thermal-Magnetic Circuit Breakers
热磁双可调断路器(TAMA)
Thermal Adjustable Magnetic adjustable Circuit Breakers (TAMA)
电子式断路器
Electronic Circuit Breakers
漏电断路器 (ELCB)
Earth-Leakage Circuit Breakers(ELCB)

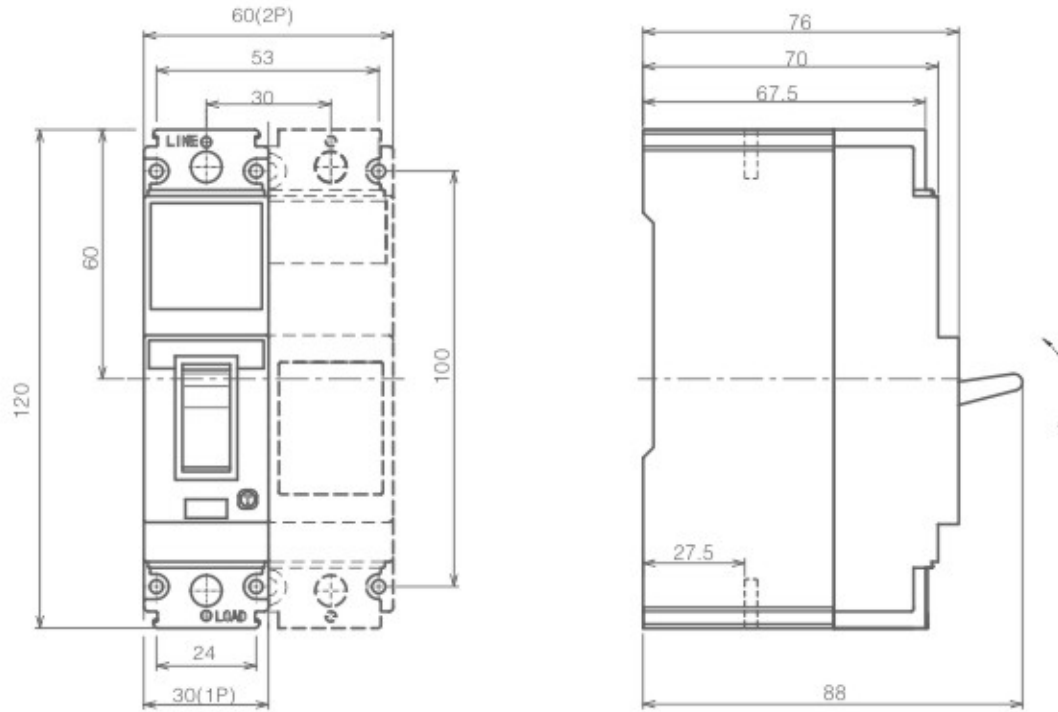


MCCB CBR

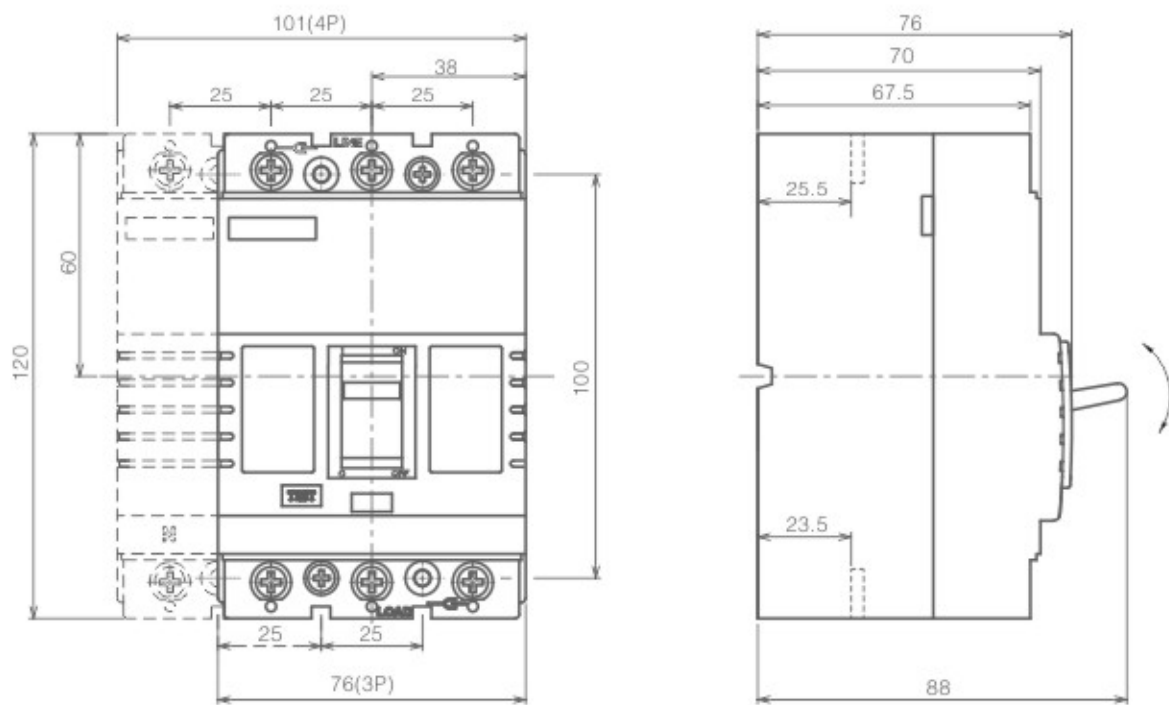


Outline dimension 外形尺寸

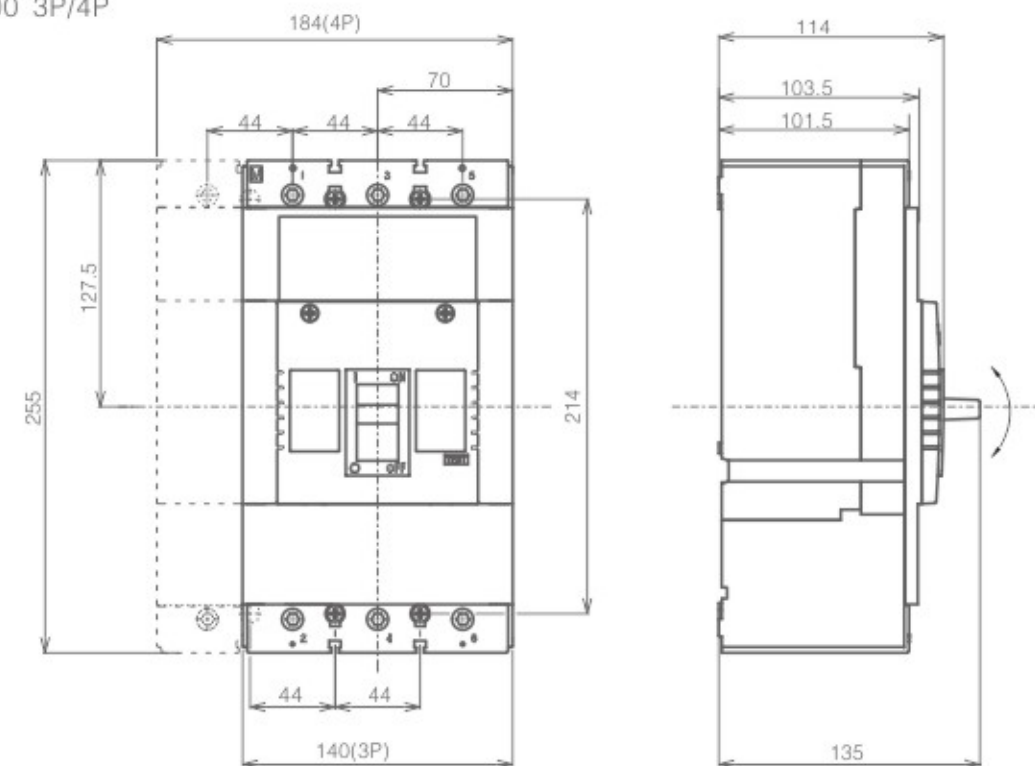
DAM1-160/1P/2P



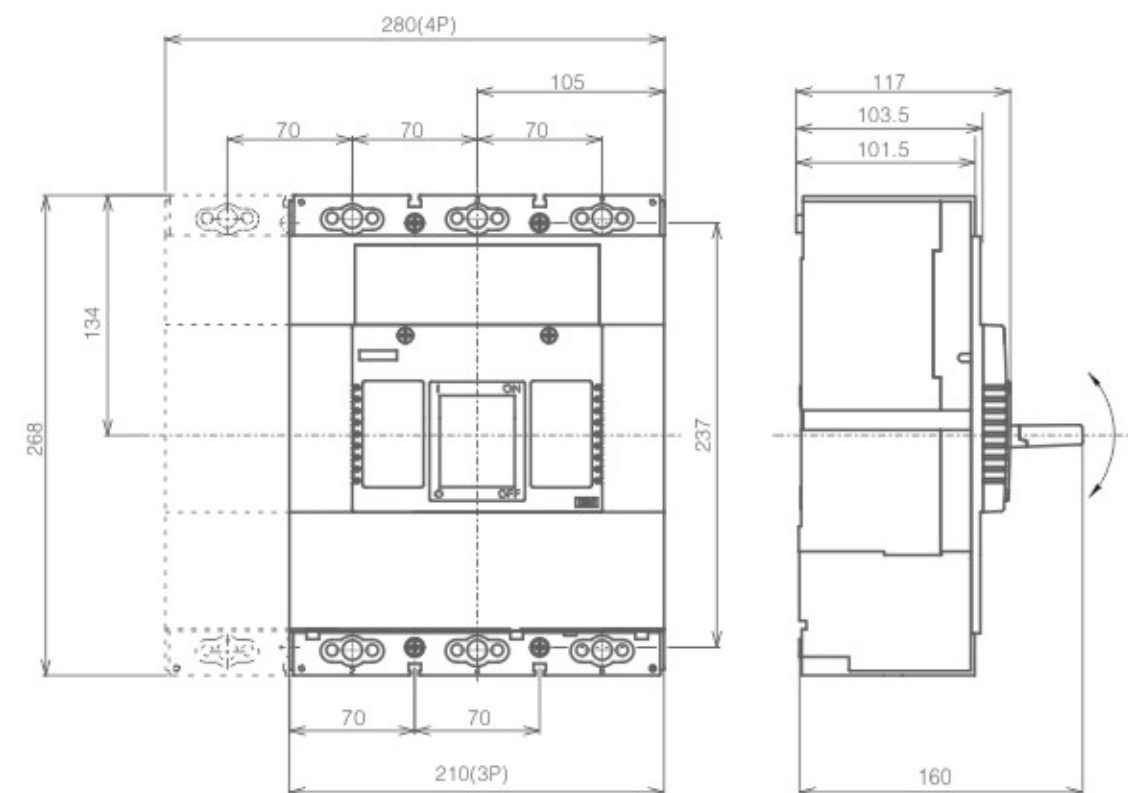
DAM1-125/3P/4P



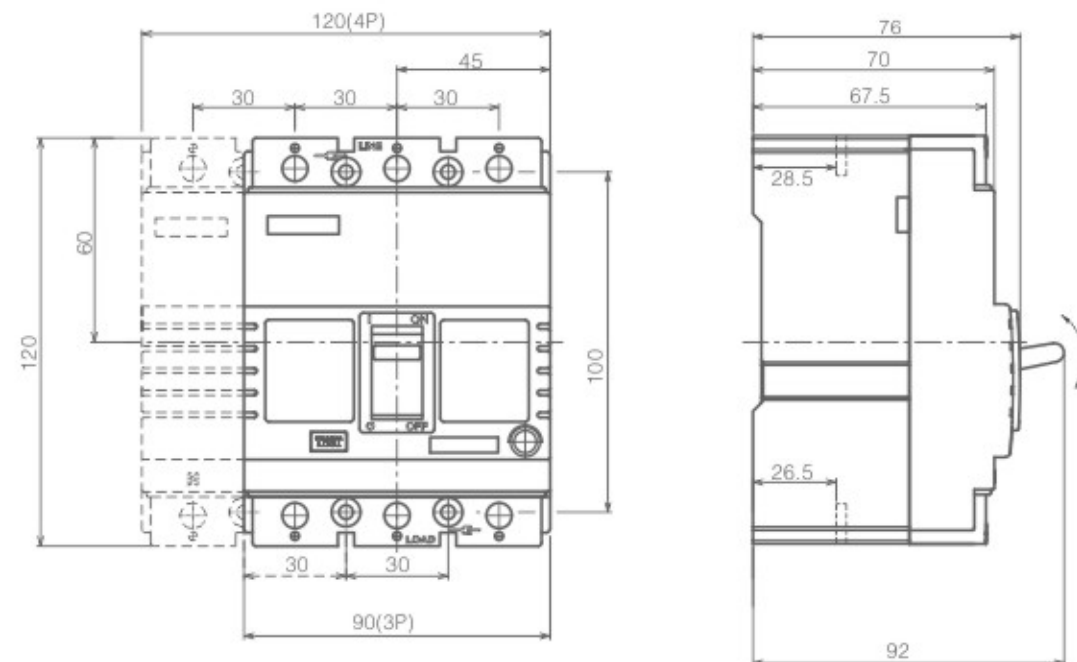
DAM1-400 3P/4P



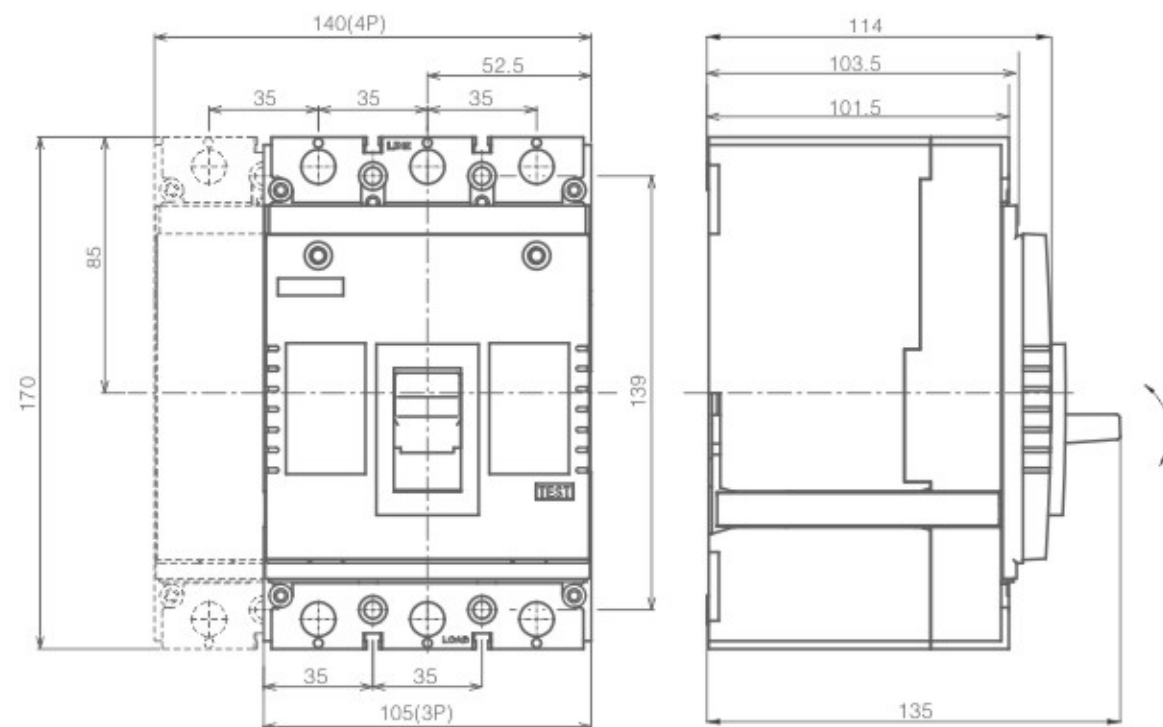
DAM1-800 3P/4P



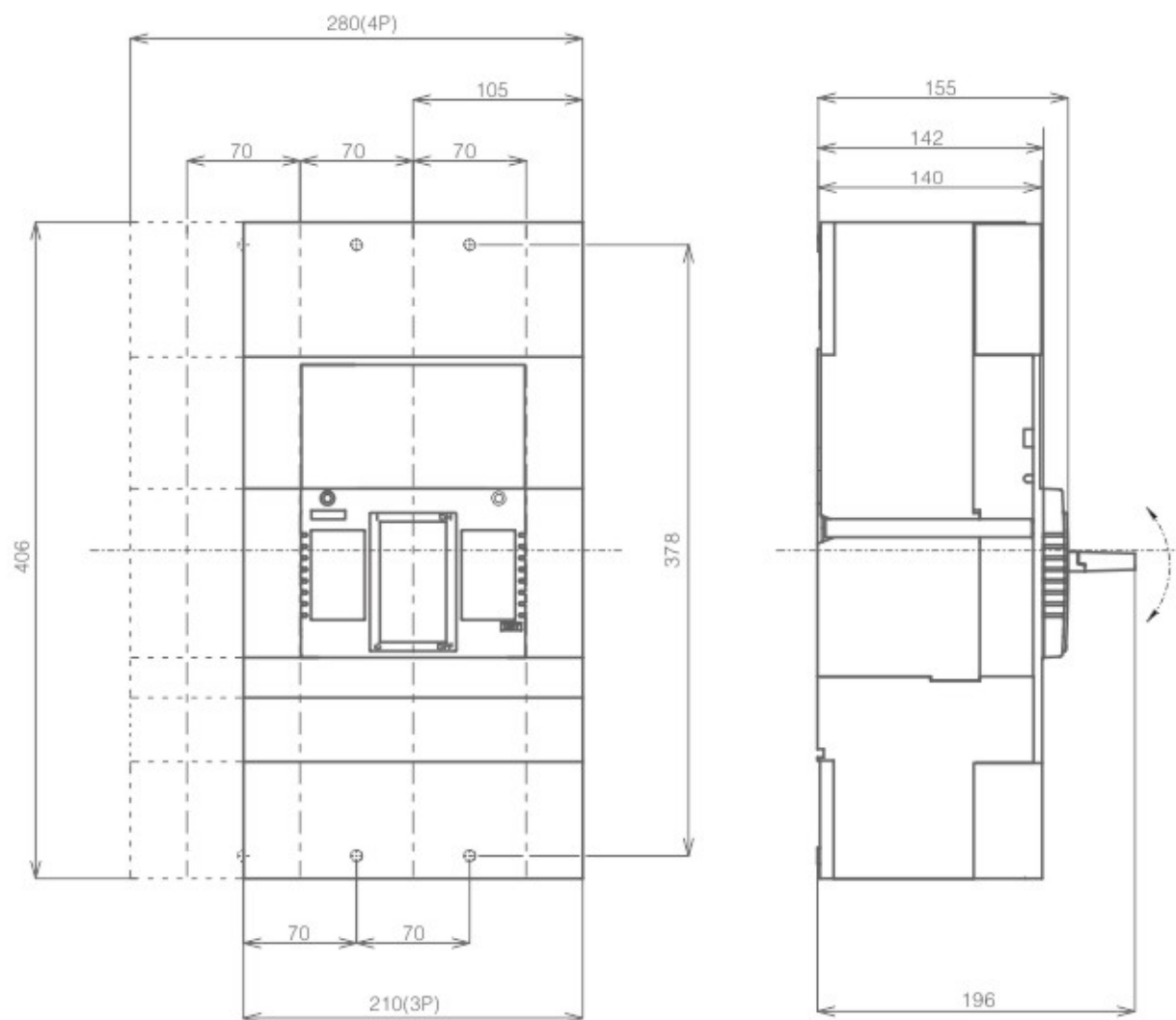
DAM1-160/3P/4P



DAM1-250/3P/4P



DAM1-1600 3P/4P



热磁双可调断路器 Thermal Adjustable Magnetic adjustable Circuit Breakers (TAMA)

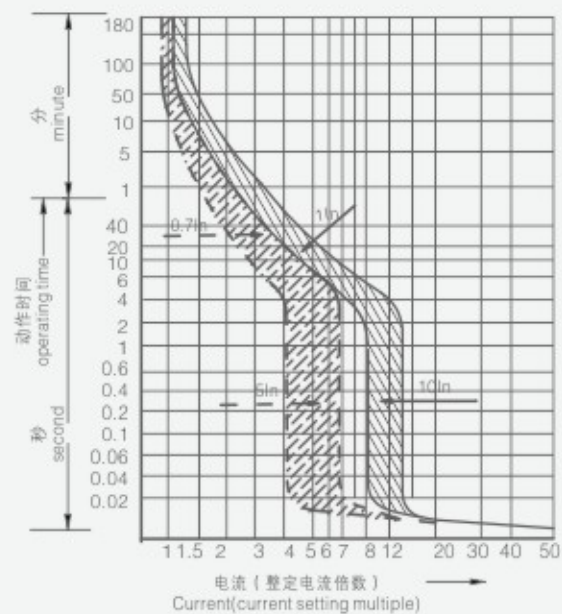


壳架 Model			DAM1-250				DAM1-630(400)				DAM1-800				DAM1-1600		
分断能力代码 Breaking Capacity Code			N	S	H	G	N	S	H	G	N	S	H	G	S	H	G
壳架等级额定电流 Rated Current of Frame size-Inm (A)			250A				400A				800A				1600A		
额定电流 Rated Current-In(40,50 or 55℃) (A)			125 – 160(180) – 200(225) – 250 – 320A				250 – 315 (350)– 400 – 500 – 630A				400– 500–630 (700)– 800–1000A				800 – 1000 – 1250 – 1600A		
额定绝缘电压 Rated Insulation Voltage –Ui(a.c.) 50–60Hz (V)			1000V				1000V				1000V				1000V		
额定工作电压 Rated operation Voltage –Ue(a.c.) 50–60Hz (V)			400/415V				400/415V				400/415V				400/415V		
极数 Number of Pole			3P				3P /4P				3P				3P		
额定极限短路分断能力Rated ultimate short Circuit breaking Capacity I _{kA} Icu AC400V/50Hz O-OO (KA)			35	50	65	85	35	50	70	85	35	50	70	85	65	85	100
额定运行短路分断能力Rated service short Circuit breaking Capacity I _{kA} Ics AC400V/50Hz O-OO-OO (KA)			26.25	37.5	48.75	51	26.25	37.5	52.5	52.5	35	37.5	52.5	52.5	50	50	50
额定短路接通能力（峰值） Rated short-circuit breaking capacity I _{cm} (peak)/cos φ AC400V/50Hz O-OO (KA)			77/ 0.25	114/ 0.25	143/ 0.2	178/ 0.2	70/ 0.25	110/ 0.25	154/ 0.2	187/ 0.2	77/ 0.25	100/ 0.25	154/ 0.2	187/ 0.2	105/ 0.25	143/ 0.2	220/ 0.2
额定冲击耐受电压 Rated impulse withstand Voltage –U _{imp} (V)			8000				8000				8000				8000		
介电性能 Dielectric Property (V)			3000				3000				3000				3000		
飞弧距离 Ionization distance (mm)			≤30/0※				≤60/0※				≤80/0※				≤80/0※		
使用寿命 Endurance	总次数 Total Cycles		8000				5000				5000				3000		
	使用电寿命 Electrical Life		1000				1000				1000				500		
	使用机械寿命 Mechanical Life		7000				4000				4000				2500		
过电流脱扣 Over Current trip	热可调 Thermal release adjustable		Min:0.7I _n –Max:1I _n				Min:0.7I _n –Max:1I _n				Min:0.7I _n –Max:1I _n				Min:0.7I _n –Max:1I _n		
	磁可调 Magnetic release adjustable		5I _n –10I _n				5I _n –10I _n				5I _n –10I _n				5I _n –10I _n		
使用类别 Category (EN 60947–2/ IEC 60947–2)	主电路 Main circuit		A/B				A/B				A/B				A/B		
	辅助电路及控制电路 Auxiliary circuit		AC–15				AC–15				AC–15				AC–15		
欠压脱扣器 Under Voltage Release			√				√				√				√		
分励脱扣器 Shunt Release			√				√				√				√		
辅助触头 Auxiliary Contact			√				√				√				√		
报警触头 Alarm Contact			√				√				√				√		
辅连报警触头 Auxiliary Contact and Alarm Contact			√				√				√				√		
手操 Handle Operation Mechanism			√				√				√				√		
电操 Electrical Operation Mechanism			√				√				√				√		
挂扣 DIN clips			–				–				–				–		
插板 Terminal cover			√				√				√				√		
隔板 Phase seperator			√				√				√				√		
加长手柄 Extension Handle			√				√				√				√		
外形尺寸 Outline dimensions	宽W (mm)	3P	105				140				210				210		
		4P	–				184				–				–		
	长L (mm)	3P	212.5				255				268				392		
		4P	–				255				–				–		
	厚H (mm)	3P	103.5				103.5				103.5				138.5		
		4P	–				103.5				–				–		
重量 Weight	固定式 Fixed version 3P/4P		2.7/3.5		41.5/5.5		5.1/7.1		9.6/12.5		17.2/22.2						
	插入式 Plug-in version 3P/4P		3.2/4.2		4.6/6		6.5/8.5		–		–						
	抽出式 Draw out version 3P/4P		3.6/4.6		5/6.4		6.5/8.7		12.2/15.3		22/30.1						

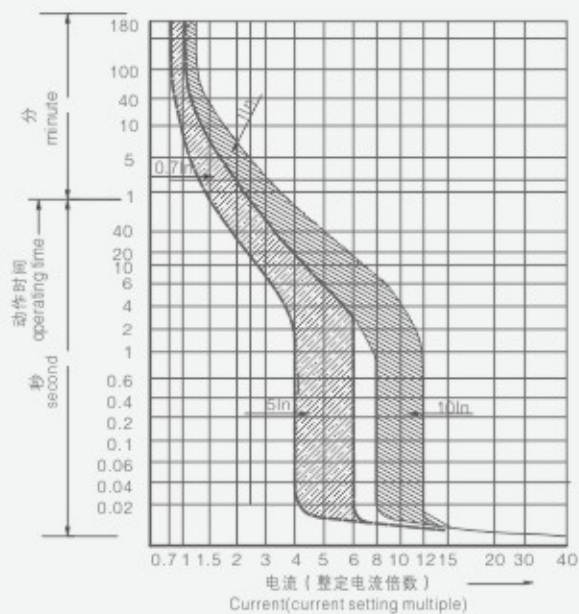
Characteristic curve for TAMA

特性曲线

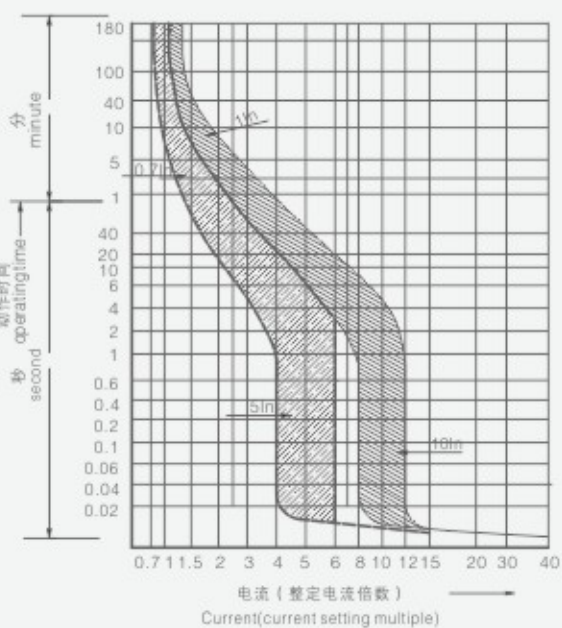
DAM1-250 TAMA



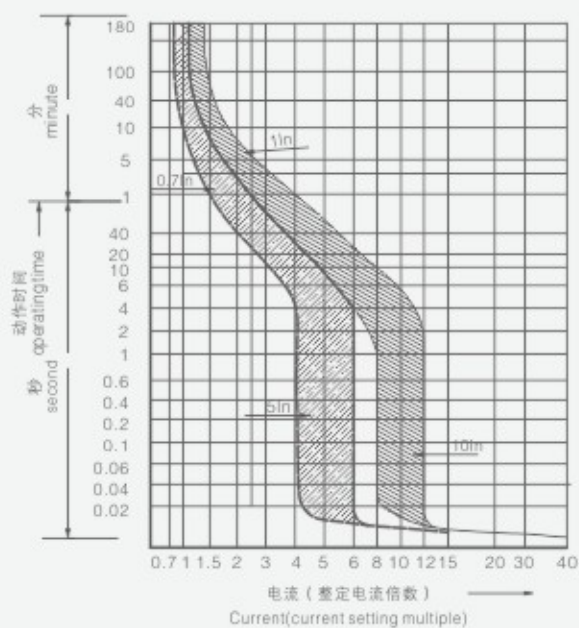
DAM1-400/630 TAMA



DAM1-800/1000 TAMA



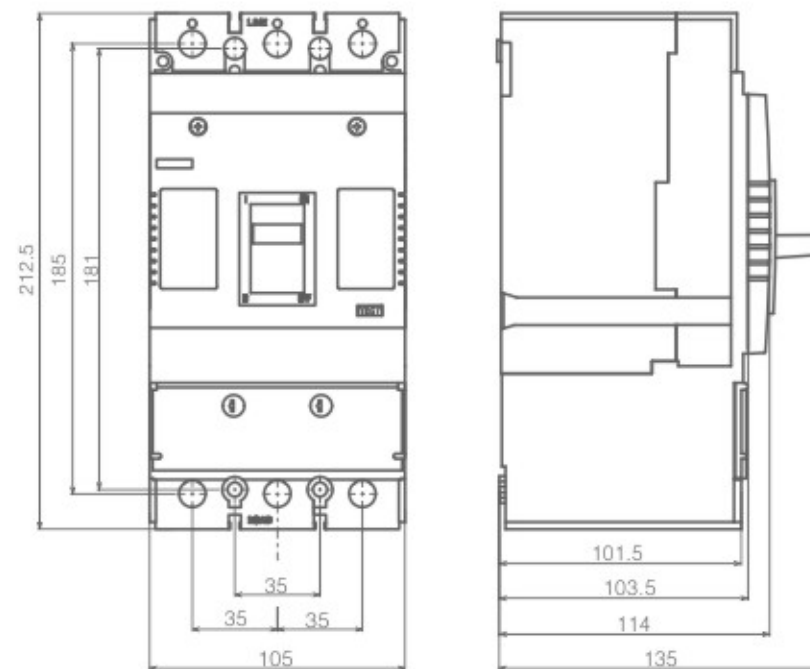
DAM1-1600 TAMA



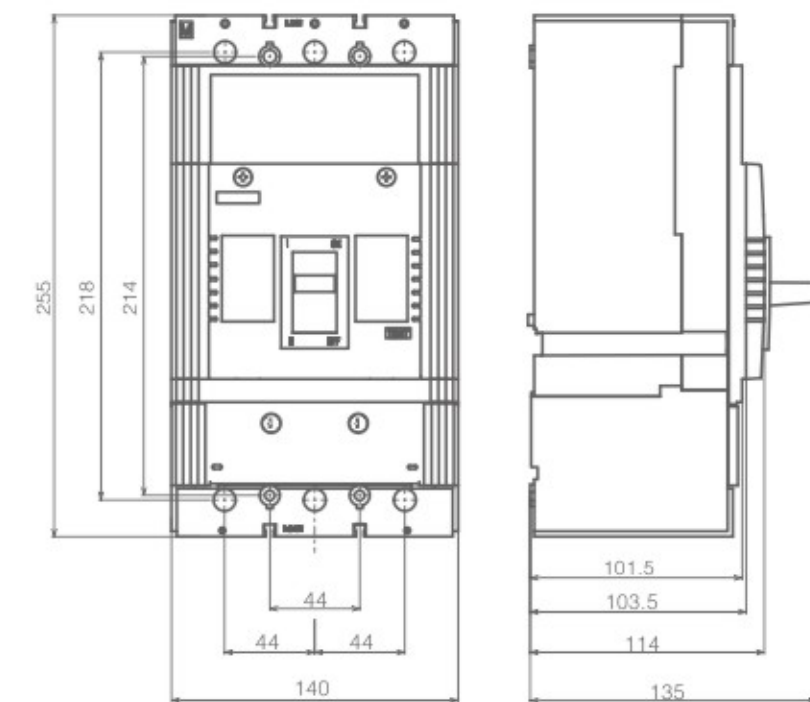
Outline dimension for thermal-magnetic adjustable MCCB

热磁双可调断路器的外形尺寸

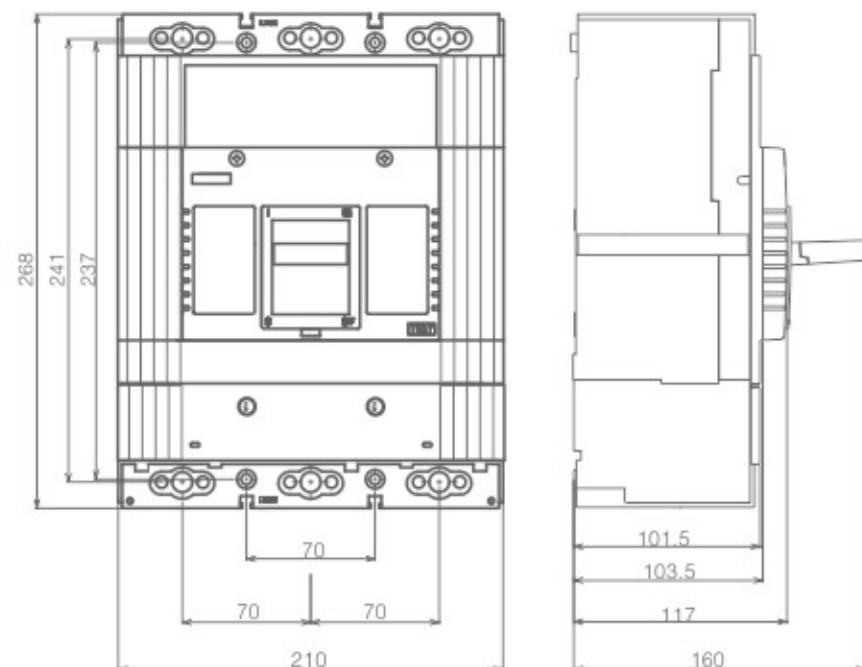
DAM1-250



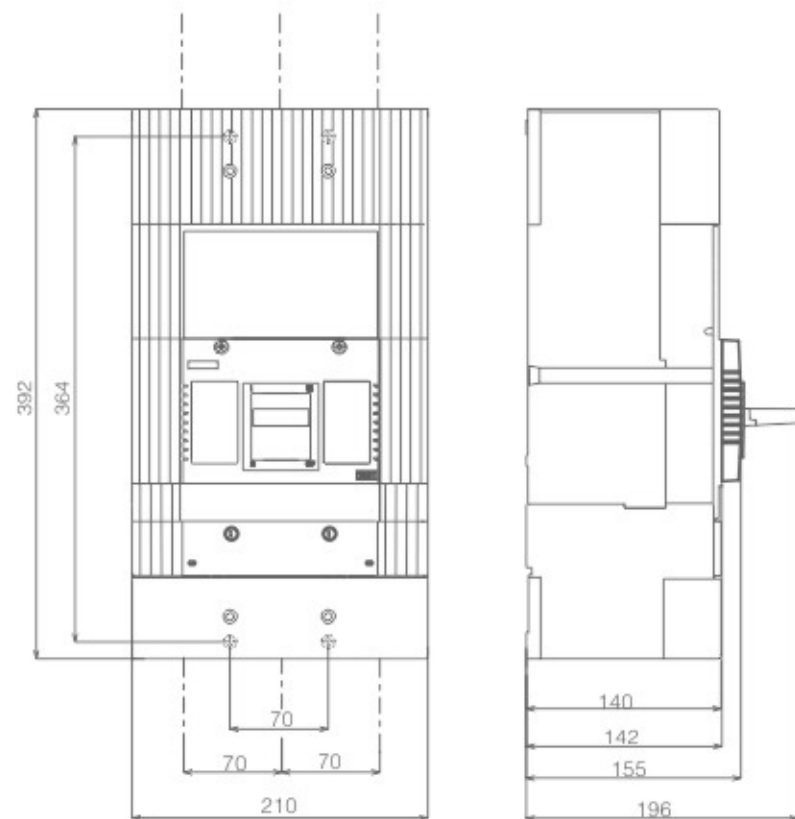
DAM1-630



DAM1-800



DAM1-1600


 电子式断路器
 Electronic Circuit Breakers

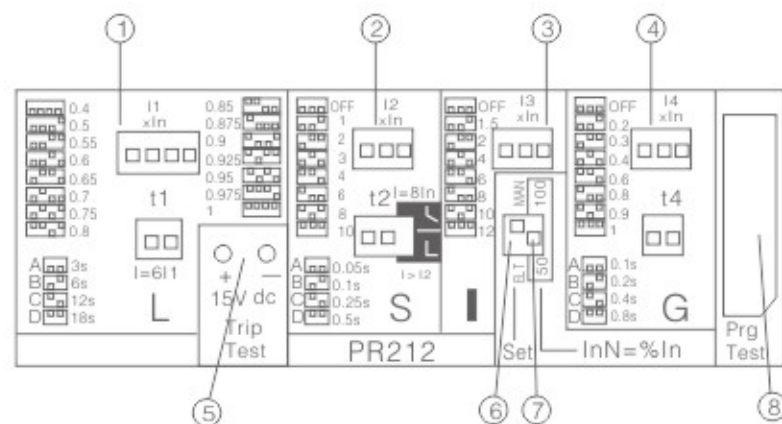

壳架 Model			DAM1-250				DAM1-630(400)				DAM1-800				DAM1-1600			
分断能力代码 Breaking Capacity Code			N	S	H	G	N	S	H	G	N	S	H	G	S	H	G	
壳架等级额定电流 Rated Current of Frame size-Inm (A)			250A				400A				800A				1600A			
额定电流 Rated Current-In(40,50 or 55℃) (A)			125 - 160(180) - 200(225) - 250 - 320A				250 - 315 (350)- 400 - 500 - 630A				400 - 500 - 630 (700)- 800 - 1000A				800 - 1000 - 1250 - 1600A			
额定绝缘电压 Rated Insulation Voltage -Ui(a.c.) 50-60Hz (V)			1000V				1000V				1000V				1000V			
额定工作电压 Rated operation Voltage -Ue(a.c.) 50-60Hz (V)			400/415V				400/415V				400/415V				400V			
极数 Number of Pole			3P /4P				3P /4P				3P /4P				3P /4P			
额定极限短路分断能力 Rated ultimate short Circuit breaking Capacity IKA Icu AC400V/50Hz O-CC (KA)			35	50	65	85	35	50	70	85	35	50	70	85	65	85	100	
额定运行短路分断能力 Rated service short Circuit breaking Capacity IKA Ics AC400V/50Hz O-CC-CO (KA)			26.25	37.5	48.75	51	26.25	37.5	52.5	52.5	35	37.5	52.5	52.5	50	50	50	
额定短路接通能力（峰值） Rated short-circuit breaking capacity Icm(peak)/cos φ AC400V/50Hz O-CC (KA)			77/0.25	114/0.25	143/0.2	178/0.2	70/0.25	110/0.25	154/0.2	187/0.2	77/0.25	100/0.25	154/0.2	187/0.2	105/0.25	143/0.2	220/0.2	
额定冲击耐受电压 Rated impulse withstand Voltage -Uimp (V)			8000				8000				8000				8000			
介电性能 Dielectric Property (V)			3000				3000				3000				3000			
飞弧距离 Ionization distance (mm)			≤30/0※				≤60/0※				≤80/0※				≤80/0※			
使用寿命 Endurance	总次数 Total Cycles		8000				5000				5000				3000			
	使用电寿命 Electrical Life		1000				1000				1000				500			
	使用机械寿命 Mechanical Life		7000				4000				4000				2500			
过电流脱扣 Over Current trip	热可调 Thermal release adjustable		(0.4-0.5-0.6-0.7-0.8-0.9-1)xIn				(0.4-0.5-0.6-0.7-0.8-0.9-1)xIn				(0.4-0.5-0.6-0.7-0.8-0.9-1)xIn				(0.4-0.5-0.6-0.7-0.8-0.9-1)xIn			
	磁可调 Magnetic release adjustable		(1.5-2-4-6-8-10-12)xIn				(1.5-2-4-6-8-10-12)xIn				(1.5-2-4-6-8-10-12)xIn				(1.5-2-4-6-8-10-12)xIn			
操作曲线 Operating Curve at 6Ir			3S-6S-12S-18S				3S-6S-12S-18S				3S-6S-12S-18S				3S-6S-12S-18S			
使用类别Category (EN 60947-2/ IEC 60947-2)	主电路 Main circuit		A/B				A/B				A/B				A/B			
	辅助电路及控制电路 Auxiliary circuit		AC-15				AC-15				AC-15				AC-15			
欠压脱扣器 Under Voltage Release			✓				✓				✓				✓			
分励脱扣器 Shunt Release			✓				✓				✓				✓			
辅助触头 Auxiliary Contact			✓				✓				✓				✓			
报警触头 Alarm Contact			✓				✓				✓				✓			
辅连报警触头 Auxiliary Contact and Alarm Contact			✓				✓				✓				✓			
手操 Handle Operation Mechanism			✓				✓				✓				✓			
电操 Electrical Operation Mechanism			✓				✓				✓				✓			
挂扣 DIN clips			-				-				-				-			
插板 Terminal cover			✓				✓				✓				✓			
隔板 Phase separator			✓				✓				✓				✓			
加长手柄 Extension Handle			✓				✓				✓				✓			
外形尺寸 Outline dimensions	宽 W (mm)	3P	105				140				210				210			
		4P	-				184				-				-			
	长 L (mm)	3P	212.5				254				268				406			
		4P	-				254				-				-			
	厚 H (mm)	3P	103.5				103.5				103.5				138.5			
		4P	-				103.5				-				-			
重量 Weight	固定式 Fixed version 3P/4P		2.7/3.5		41.5/5.5		5.1/7.1		9.6/12.5		17.2/22.2							
	插入式 Plug-in version 3P/4P		3.2/4.2		4.6/6		6.5/8.5		-		-							
	抽出式 Draw out version 3P/4P		3.6/4.6		5/6.4		6.5/8.7		12.2/15.3		22/30.1							

Electronic release 电子脱扣器



DAM1系列断路器 ($I_{nm} \geq 250A$) 采用最先进且带智能保护的电子脱扣器PR211/PR212。

DAM1 series circuit breaker ($I_{nm} \geq 250A$ and the above) applies the most advanced PR211/PR212. The electronic release has function of intellectual protection.



电子脱扣器设置

Electronic Release Settings

PR211表— Table1 PR211 type

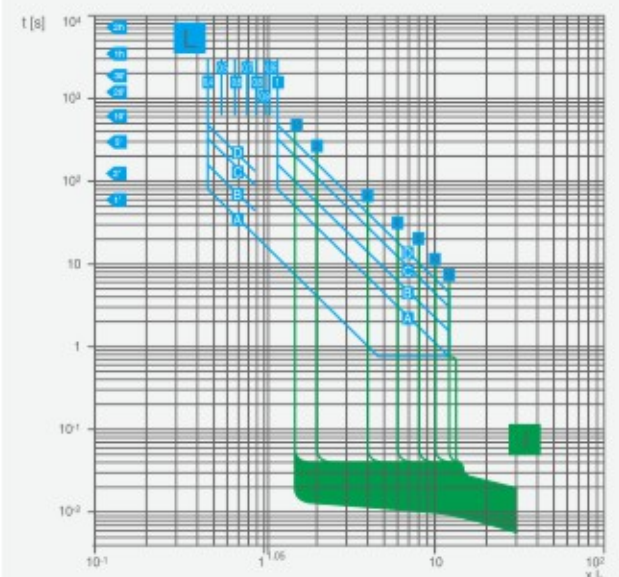
序号 S.No.	功能 Function	设置 Settings	型号 Type 极数 Poles 安倍数 Rating (A)	PR211 3P 250	PR211 3P 400	PR211 3P 800	PR211 3P 1600	出厂复位 Factory reset
1	L	过载电流设置 Overload Current Setting (A)		(0.4,0.5,0.6,0.7,0.8, 0.9,0.95,1.0)xIn	(0.4,0.5,0.6,0.7,0.8, 0.9,0.95,1.0)xIn	(0.4,0.5,0.6,0.7,0.8, 0.9,0.95,1.0)xIn	(0.4,0.5,0.6,0.7,0.8, 0.9,0.95,1.0)xIn	1.0In
2		在过载电流设定延时时间 Time Delay at Overload Current Setting		3S,6S,12S,18S	3S,6S,12S,18S	3S,6S,12S,18S	3S,6S,12S,18S	3S
3	I	瞬时电流设置 Instantaneous Current Setting		(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	10In

PR212表二 Table2 PR212 type

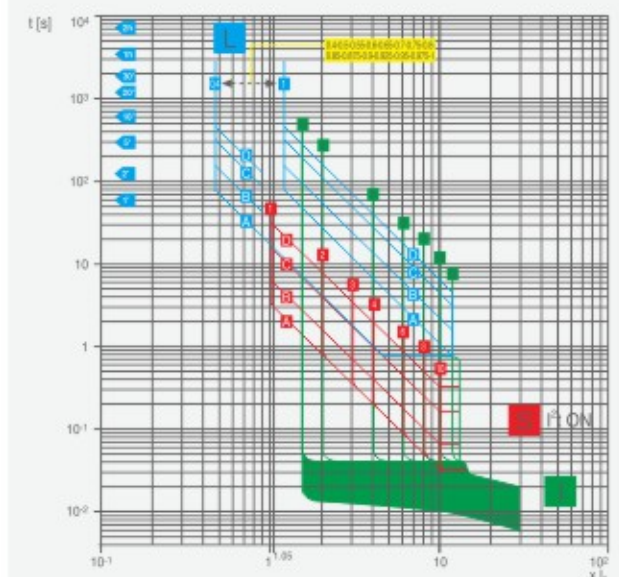
序号 S.No.	功能 Function	设置 Settings	型号 Type 极数 Poles 安倍数 Rating (A)	PR212 3P 250	PR212 3P 400/630	PR212 3P 800	PR212 3P 1600	出厂复位 Factory reset
1	L	过载电流设置 Overload Current Setting (A)		(0.4,0.5,0.55,0.6, 0.65,0.7,0.75,0.8) xIn	(0.4,0.5,0.55,0.6, 0.65,0.7,0.75,0.8) xIn	(0.4,0.5,0.55,0.6, 0.65,0.7,0.75,0.8) xIn	(0.4,0.5,0.55,0.6, 0.65,0.7,0.75,0.8) xIn	1.0In
2		在过载电流设定延时时间 Time Delay at Overload Current Setting		3S,6S,12S,18S	3S,6S,12S,18S	3S,6S,12S,18S	3S,6S,12S,18S	3S
3	S	短路电流设置 Short - Circuit Current Setting (A)		(1, 2, 3, 4, 6, 8, 10, OFF)xIn	(1, 2, 3, 4, 6, 8, 10, OFF)xIn	(1, 2, 3, 4, 6, 8, 10, OFF)xIn	(1, 2, 3, 4, 6, 8, 10, OFF)xIn	6In
4		在短路电流整定延时 Time Delay at Short Circuit Current Setting		0.05, 0.1, 0.25, 0.5	0.05, 0.1, 0.25, 0.5	0.05, 0.1, 0.25, 0.5	0.05, 0.1, 0.25, 0.5	0.1S
5	I	瞬时电流设置 Instantaneous Current Setting		(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	(1.5, 2, 4, 6, 8, 10, 12,OFF)xIn	10In
6	G	接地故障电流设置 Ground Fault Current Setting (A)		(0.2,0.3,0.4, 0.6, 0.8,0.9, 1.0, OFF) xIn	(0.2,0.3,0.4, 0.6, 0.8,0.9, 1.0, OFF) xIn	(0.2,0.3,0.4, 0.6, 0.8,0.9, 1.0, OFF) xIn	(0.2,0.3,0.4, 0.6, 0.8,0.9, 1.0, OFF) xIn	1.0In
7		在接地故障电流设置延时时间 Time Delay at Ground Fault Setting		0.1, 0.2, 0.4, 0.8	0.1, 0.2, 0.4, 0.8	0.1, 0.2, 0.4, 0.8	0.1, 0.2, 0.4, 0.8	0.4S
8		电动或电选择参数设置 Selection of electric or electronic parameters set 用于设置零线开关参数 Used for setting parameters of dip switch of zero line 连接测量装置的插座 Socket for connection measuring device		功能设置 (开关ELT/MAN) USB接口 Function SET (switch ELT/MAN) InN=%In, 开关 50/100 switch 50/100 面板插座 Panel socket				

Electronic release characteristic curves 特性曲线

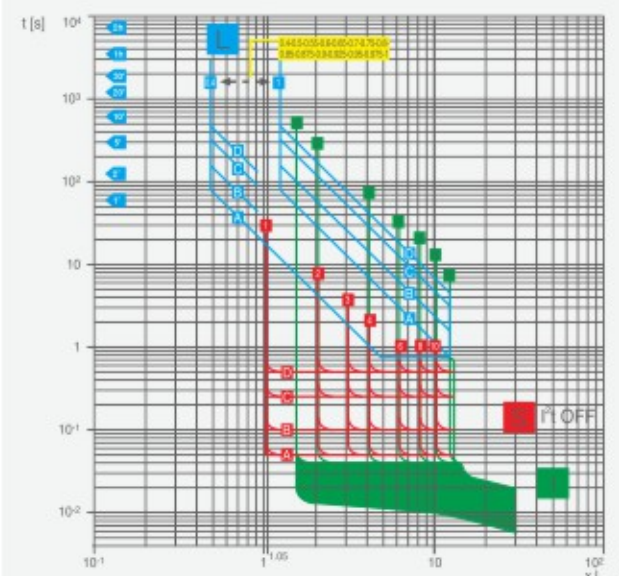
PR211/P
LI-I



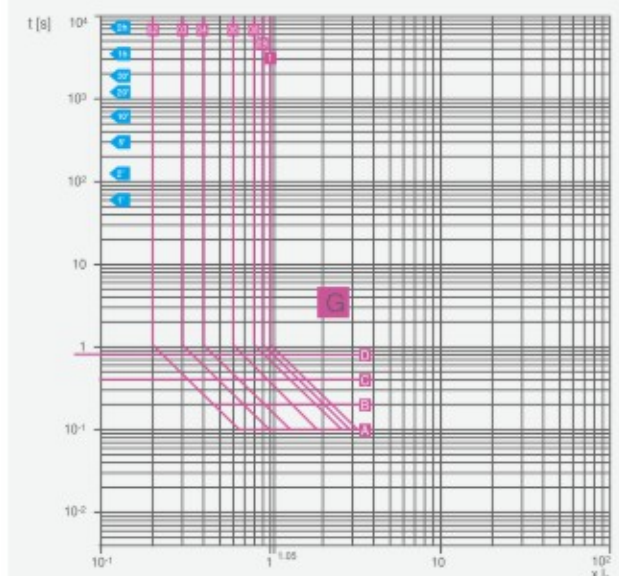
PR212/P

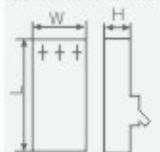


PR212/P



PR212/P



漏电保护断路器 Earth-Leakage Circuit Breakers(ELCB)					
壳架 Model		DAM1-125L	DAM1-160L	DAM1-250L	DAM1-630L(400L)
分断能力代码 Breaking Capacity Code		B N S	B N S	N S H G	N S H G
壳架等级额定电流 Rated Current of Frame size-Inm	(A)	125A	160A	250A	400A
额定电流 Rated Current-In(40,50 or 55°C)	(A)	10-12.5-16-20-25-32(30)-40-50-63(60)-80-100-125A	10-12.5-16-20-25-32-40-50-63-80-100-125-160(150)A	63-80-100-125-160(180)-200(225)-250(320)A	250-315(350)-400-500-630A
额定绝缘电压 Rated Insulation Voltage -Ui(a.c.) 50-60Hz	(V)	690V	690V	690V	690V
额定工作电压 Rated operation Voltage -Ue(a.c.) 50-60Hz	(V)	400/415V	400/415V	400/415V	400/415V
极数 Number of Pole		4P	4P	4P	4P
额定极限短路分断能力 Rated ultimate short circuit breaking capacity I _{ka} Icu AC400V/50Hz O-OO	[kA]	25 35 50	25 35 50	35 50 65 85	35 50 70 85
额定运行短路分断能力 Rated service short circuit breaking capacity I _{kn} Ics AC400V/50Hz O-OO	[kA]	12.5 17.5 37.5	12.5 26.25 37.5	26.25 37.5 48.75 51	26.25 37.5 52.5 52.5
额定短路接通能力 (峰值) Rated short-circuit breaking capacity I _{cm} (peak)/cos φ AC400V/50Hz O-OO	[kA]	40/0.3 73.5/0.25 105/0.25	41/0.3 73.5/0.25 110/0.25	77/0.25 114/0.25 143/0.2 178/0.2	70/0.25 110/0.25 154/0.2 187/0.2
额定剩余电流短路接通能力 Rated remnant current short-circuit making capacity(I _{Δn})kA/cos φ		9/0.5	19/0.5	12/0.3	19/0.5
剩余电流值 Residual current threshold	(mA)	100-300-500	100-300-500	100-300-500	100-300-500
时间延迟 Time delay	(ms)	50-500-800	50-500-800	50-500-800	50-500-800
额定冲击耐受电压 Rated impulse withstand Voltage -U _{imp}	(V)	8000	8000	8000	8000
介电性能 Dielectric Property (V)		2500	3000	3000	3000
飞弧距离 Ionization distance	(mm)	≤30/0	≤30/0	≤30/0※	≤60/0※
使用寿命 Endurance	总次数 Total Cycles	8000	8000	8000	5000
	使用电寿命 Electrical Life	1000	1000	1000	1000
	使用机械寿命 Mechanical Life	7000	7000	7000	4000
过电流脱扣 Over Current trip	热可调 Thermal release adjustable	-	Min:0.8I _n -Max:1I _n	Min:0.8I _n -Max:1I _n	Min:0.8I _n -Max:1I _n
	磁可调 Magnetic release adjustable (5I _n -10I _n)	-	-	-	-
	热磁固定式 Thermal and Magnetic release fix type	√	√	√	√
使用类别 Category (EN 60947-2/ IEC 60947-2)	主电路 Main circuit	A/D	A/D	A/B	A/B
	辅助电路及控制电路 Auxiliary circuit	AC-15	AC-15	AC-15	AC-15
欠压脱扣器 Under Voltage Release		√	√	√	√
分励脱扣器 Shunt Release		√	√	√	√
辅助触头 Auxiliary Contact		√	√	√	√
报警触头 Alarm Contact		√	√	√	√
辅连报警触头 Auxiliary Contact and Alarm Contact		√	√	√	√
手操 Handle Operation Mechanism		√	√	√	√
电操 Electrical Operation Mechanism		√	√	√	√
插板 Terminal cover		√	√	√	√
隔板 Phase separator		√	√	√	√
外形尺寸 Outline dimensions	宽W (mm)	3P	-	-	-
		4P	101	120	140
	长L (mm)	3P	-	-	-
		4P	155	120	210
	厚H (mm)	3P	-	-	-
		4P	70	70	103.5
重量 Weight	固定式 Fixed version 3P/4P	-	-	-	41.5/5.5
	插入式 Plug-in version 3P/4P	-	-	-	4.6/6
	抽出式 Draw out version 3P/4P	-	-	-	5/6.4

Breaking time for residual current operation of non-delay residual current type circuit breaker 非延时型剩余电流动作断路器剩余电流动作的断开时间

表7 Table 7

剩余电流 Residual current	I _{Δn}	2I _{Δn}	5I _{Δn}	10I _{Δn}
最大断开时间 Max. breaking time s	0.3	0.15	0.04	0.04

注：对Δn≤30mA的剩余电流动作的断路器用0.25A代替5I_{Δn}，同时，用0.5A代替10I_{Δn}。

Note: for circuit breaker with I_{Δn}≤30mA residual current, 0.25A substitutes 5I_{Δn}, meanwhile, 0.5A substitutes 10I_{Δn}.

Operation character of time-delay residual current type circuit breaker 延时型剩余电流动作断路器的动作特性

表8 Table 8

最大断开时间 Max break time	剩余电流 The current of remnant	I _{Δn}	2I _{Δn}	5I _{Δn}	10I _{Δn}	附注 remark
极限不驱动时间 The limit and non drive time						
60		0.5	0.2	0.15	0.15	
100		0.8	0.4	1.3	0.3	
300		2	1	1.8	0.8	

注：延时型只适用于I_{Δn}>30mA的剩余动作电流断路器。对A型，此表也适用，此时电流I_{Δn}应乘以系数1.4。

Note: The time-delay type only suitable for residual current circuit breaker with I_{Δn}>30mA. This table also suitable for model A, and then the current I_{Δn} should multiply by 1.4.

Operation characteristocs of adjustable time delay residual current type circuit breaker 可调性延时型剩余电流动作断路器的动作特性

表9 Table 9

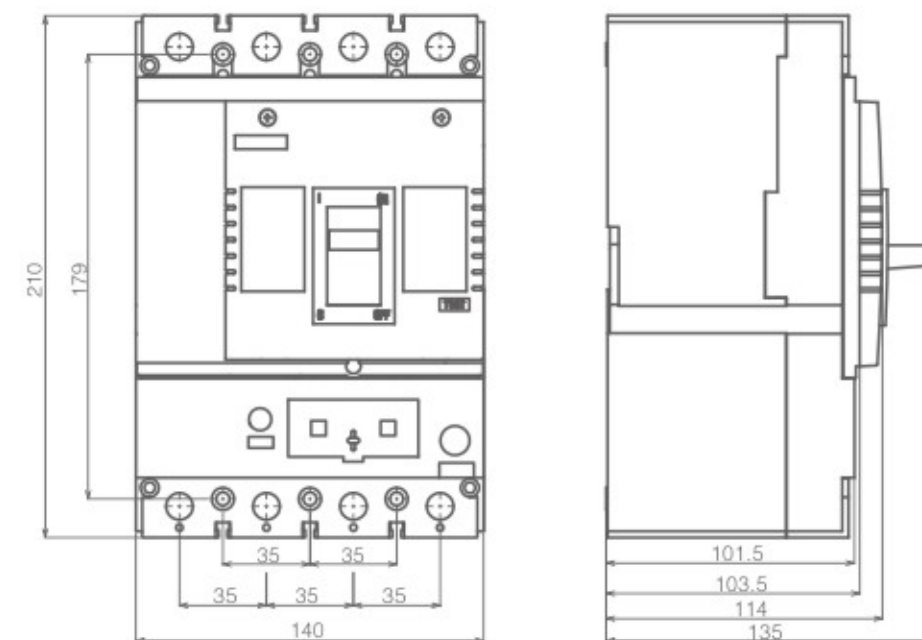
壳架等级额定电流 Rated current of frame size	额定剩余动作电流可调单可调 (I型) Rated remnant operation current only adjustable	额定剩余动作电流及极限不驱动时间双可调 (II型) The rated remnant operation current and the limit and adjustable non drive time adjustable
63	30-100-300mA	0-100-300mA 0-60-100ms
125	30-100-300mA	0-100-300mA 0-60-100ms
160	100-300-500mA	100-300-500mA 0-60-100ms
250	100-300-500mA	100-300-500mA 0-60-100-300ms
630(400)	300-500-1000mA(100-300-500mA)	300-500-1000mA(100-300-500mA) 60-100-300ms(0-60-100ms)

Parameters for pre-alarm type 预警型参数表

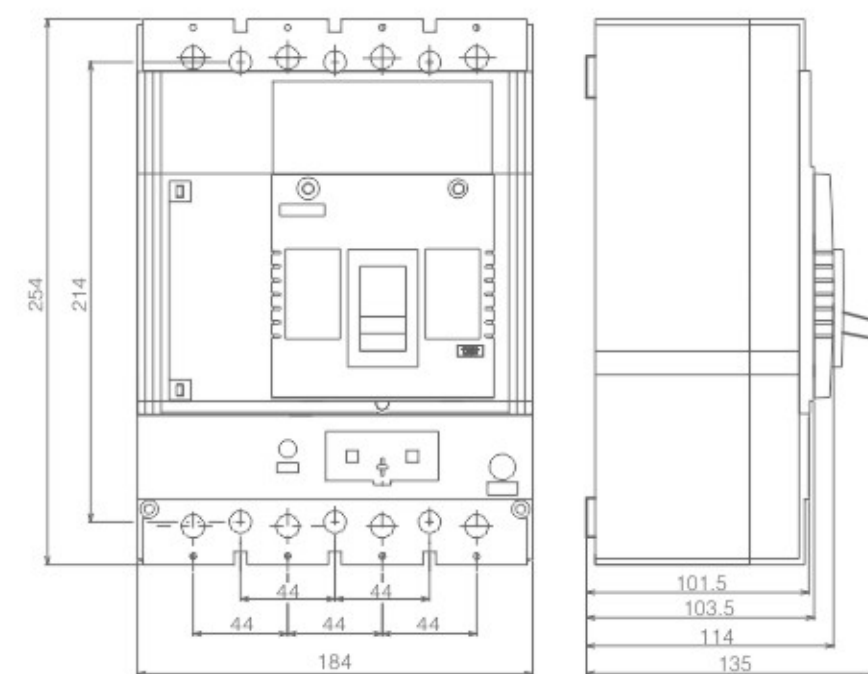
表10 Table 10

额定剩余动作电流 Rated residual operation current	起始预警电流 Initial pre-alarm current	延时时间 Delay time s	光耦极限输出电流 Max. Output current of optical coupler	光耦极限工作电压 Max. working voltage of optical coupler
I _{Δn}	0.5I _{Δn}	0,10,30	50mA	20V DC

DAM1-250L

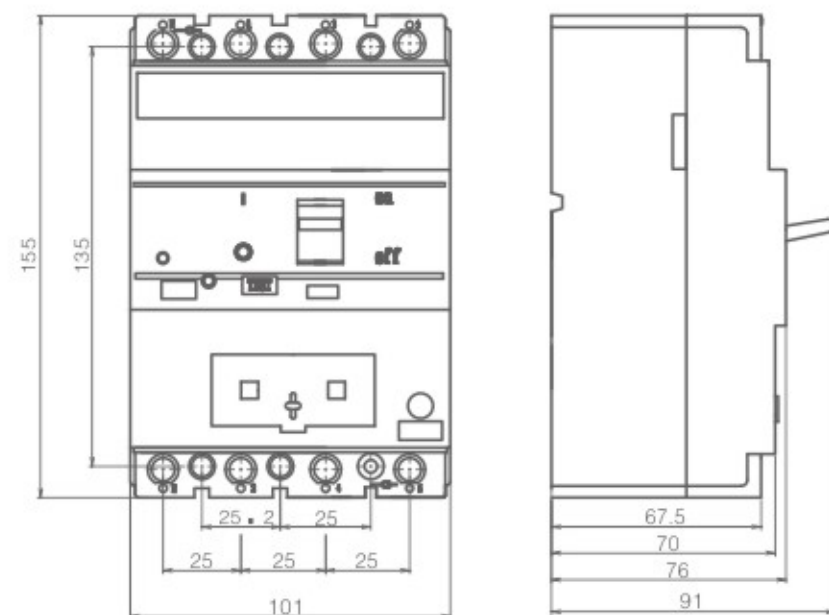


DAM1-630L

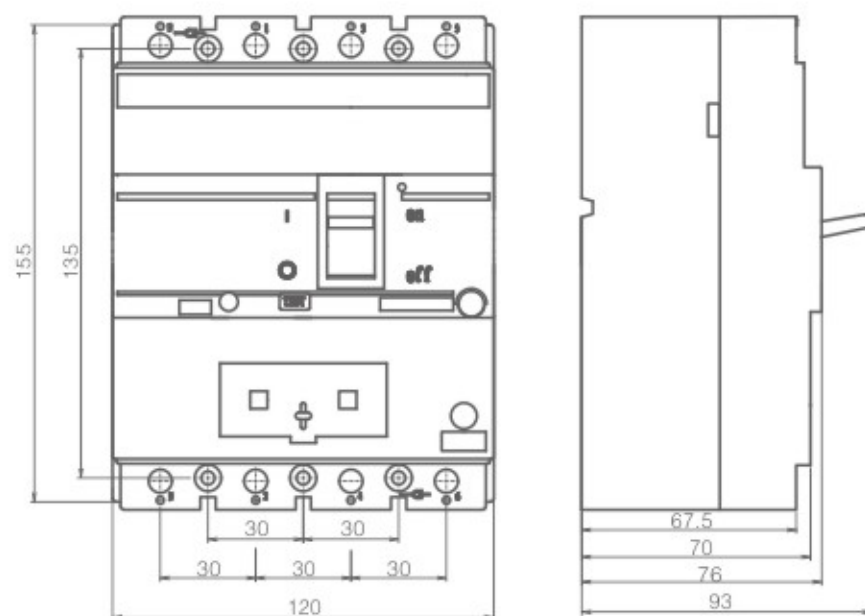


Outline dimension for ELCB 漏电断路器外形尺寸

DAM1-125L



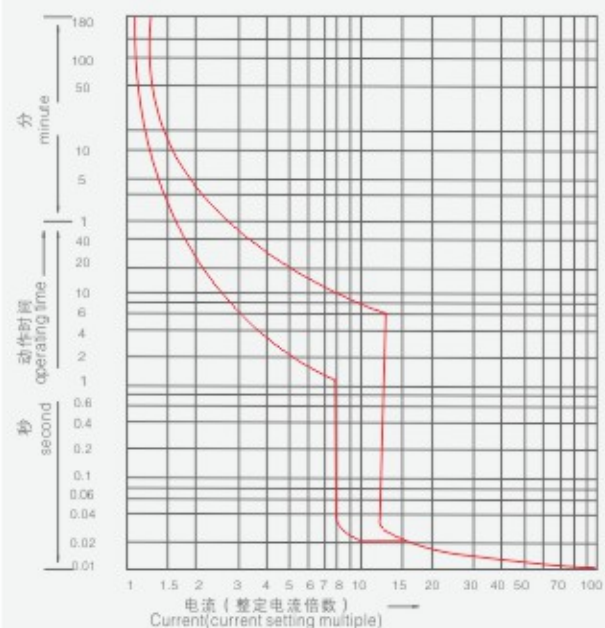
DAM1-160L



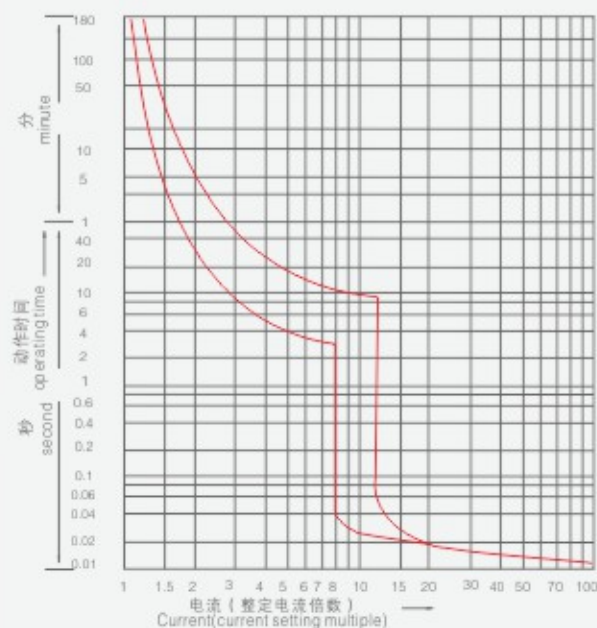
Protective Curve 保护曲线



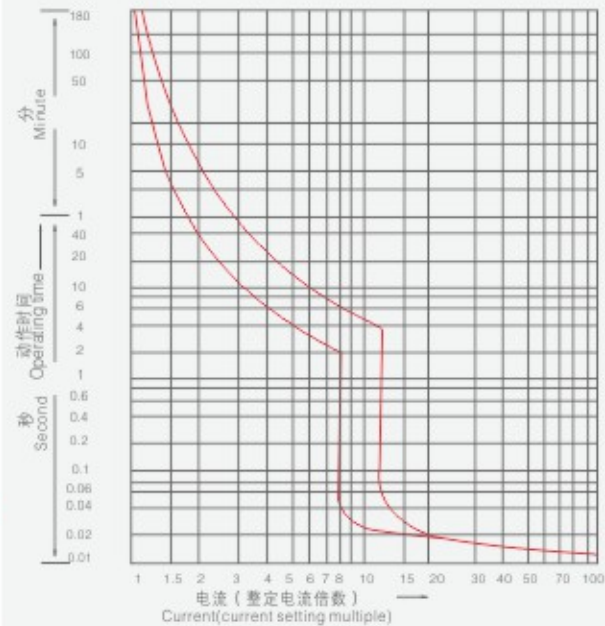
DAM1-125L



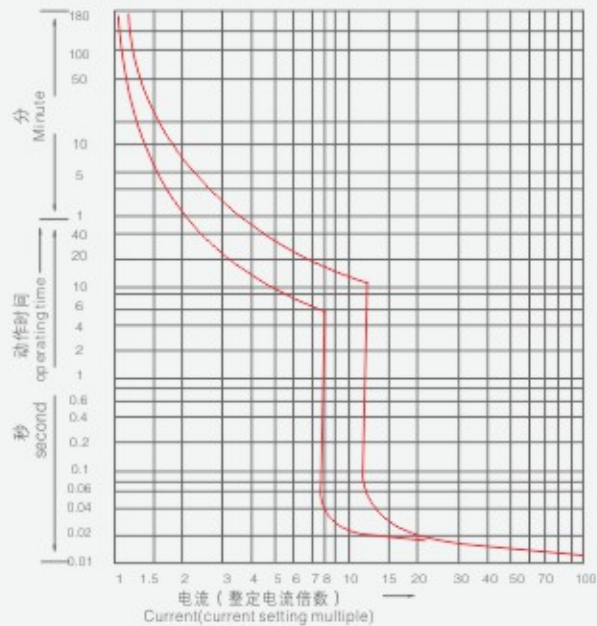
DAM1-160L



DAM1-250L



DAM1-630(400L)



Inverse time-delay breaking character of over-current release used for power distribution when power on all the poles simultaneously

配电用断路器过电流脱扣器各极同时通电时的反时限断开动作特性

表11 Table 11

试验项目名称 The name of test item	倍数In Multiple	配电保护用约定时间h Conventional time h for power distribution protection			间接电动机保护用约定时间h Conventional time h for indirectly motor protection	起始状态 Initial state
		In ≤ 63A	63A < In ≤ 250A	In > 250A		
约定不脱扣电流 Conventional non-tripping current	1.05	≥ 1	≥ 2		≥ 2	冷态 Cold state
约定脱扣电流 Conventional tripping current	1.20				< 2	热态 Heat state
	1.30	< 1	< 2			
	1.5				≤ 4min	冷态Cold state
	7.2				4s < Tc ≤ 10s	
返回特性时间 Backward character time	3.00	≥ 5s	≥ 8s	≥ 12s		冷态 Cold state

Conventional operation time of (1.05~7.2) In (1.05~7.2) In的约定动作时间

表12 Table 12

试验项目名称 Name of test project	I/Ir1	配电保护用动作时间 Operation time Tc s for power distribution protection	间接电动机保护用动作时间 Operation time Tc s for indirect motor protection
约定不脱扣电流 Conventional non-tripping current	1.05	> 2h不动作 > 2h Non-operation	> 2h不动作 > 2h Non-operation
约定脱扣电流 Conventional tripping current	1.2		< 1h动作 < 1h Operation
	1.3	< 1h动作 < 1h Operation	
	1.5	≤ 4min	≤ 4min
	7.2		4s < Tc ≤ 10s
返回特性时间 Backward character time	3.00	12s	

注：1) 动作时间考核是在出厂整定值 (6Ir, TL=10) 下进行。

2) 电子式脱扣器应在-5℃至10℃的范围内与周围温度无关。

Note: 1) The setting value (6Ir, TL=10) is checked when products are shipped out.

2) The electronic release should keep free from the change of ambient temperature when it is between 5℃ and 10℃.

Short time-delay character of over-current release 过电流脱扣器短延时特性

表13 Table 13

动作时间Ts Operation time s	0.1	0.2	0.3	0.4
可返回时间s Backward time s	0.06	0.14	0.23	0.35

Installment is convenient. 安装方便

DAM1系列断路器提供各种安装形式

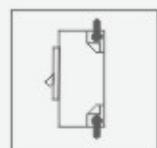
1. 固定式安装
2. 插入式安装
3. 抽出式安装

DAM1 series circuit breaker provide with several installment type.

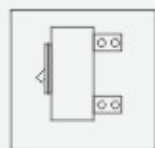
1. Fixed type installment
2. Plug-in type installment
3. With drawable type installment



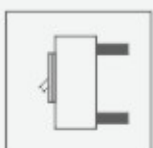
The main circuit of breaker has several connection mode. 断路器的电路具有多种连结方式



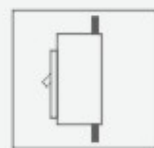
板前接线
Connect wire in front of board



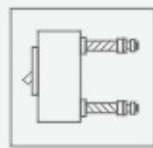
板后垂直接线
Connect wire vertically behind board



板后水平接线
Connect wire horizontally behind board



加长板前接线
Connect wire in front of extended board



板后螺杆节点
Connect wire with screw behind board

Technical parameter and Installation 技术参数与安装

壳架等级额定电流 (A) Rated current of frame size Inm(A)	固定式 Fixed version			插入式 Plug-in version		抽出式 Draw-out version	
	1P/2P	3P	4P	3P	4P	3P	4P
160/1P	■	—	—	—	—	—	—
200/2P	■	—	—	—	—	—	—
200L/2P	■	—	—	—	—	—	—
63/63L	—	■	■	■	■	—	—
125/125L	—	■	■	■	■	—	—
160/160L	—	■	■	■	■	—	—
250/250L	—	■	■	■	■	■	■
630/630L	—	■	■	■	■	■	■
800	—	■	■	—	—	■	■
1250	—	■	■	—	—	■	■
1600	—	■	■	—	—	■	■

注：L系列漏电断路器只有四极。
Note: The L Series leakage circuit only has 4 poles

Fixed type 固定式



Plug-in version 插入式



Draw-out version 抽出式



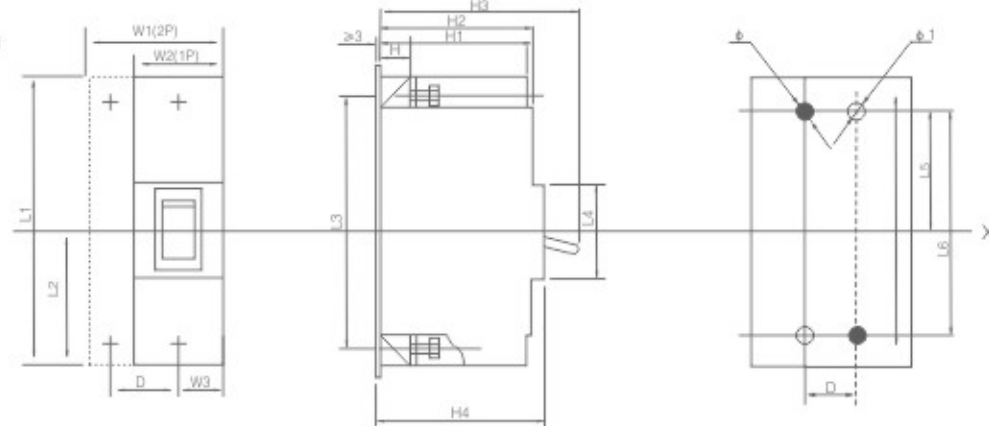
Overall and installation size 产品及安装尺寸

固定式 Fixed type

DAM1-160~200(L)

板前连接线

Connect wire in front of board



型号 Type	D	L1	L2	L3	L4	L5	L6	W1	W2	W3	H	H1	H2	H3	H4	φ	φ 1
DAM1-160/1P	—	120	48	102	45	62	102	—	30	15	27.5	67.5	70	91	76	4.5	3.5
DAM1-200/2P	30	120	48	102	45	62	102	60	—	15	27.5	67.5	70	93	76	4.5	3.5
DAM1-200L/2P	30	155	83	135	45	62	135	60	—	15	27.5	67.5	70	93	76	4.5	3.5

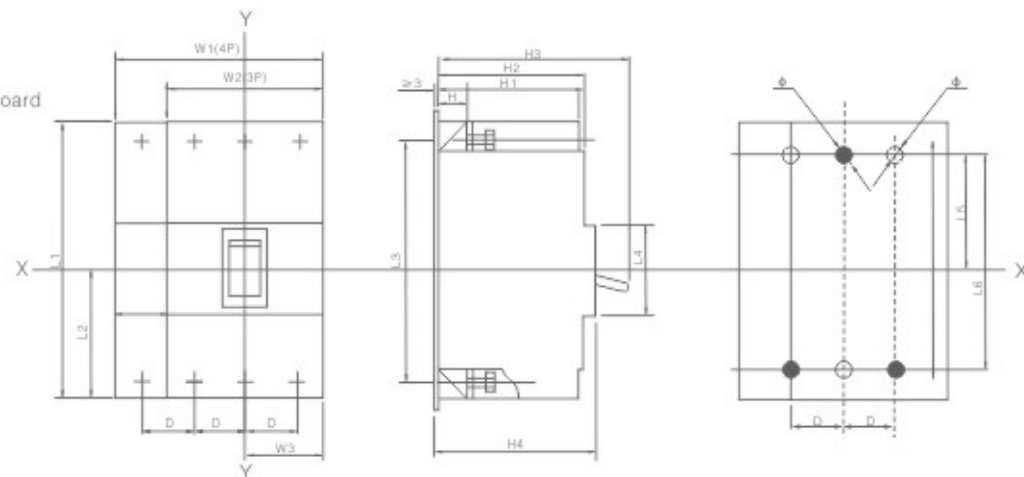
固定式 Fixed type

DAM1-63~160(L)

DAM1X-160

板前连接线

Connect wire in front of board



型号 Type	D	L1	L2	L3	L4	L5	L6	W1	W2	H	H1	H2	H3	H4	φ
DAM1-63/125	25	120	48	102	45	62	102	101	76	25.5	67.5	70	91	76	4.5
DAM1-63/125L	25	155	83	135	45	62	135	101	—	25.5	67.5	70	91	76	4.5
DAM1-160	30	120	48	102	45	62	102	120	90	27.5	67.5	70	93	76	4.5
DAM1x-160	30	120	48	102	45	62	102	120	90	27.5	67.5	70	93	76	4.5
DAM1-160L	30	155	83	135	45	62	135	120	—	27.5	67.5	70	93	76	4.5

Overall and installation size 产品及安装尺寸

固定式 Fixed type

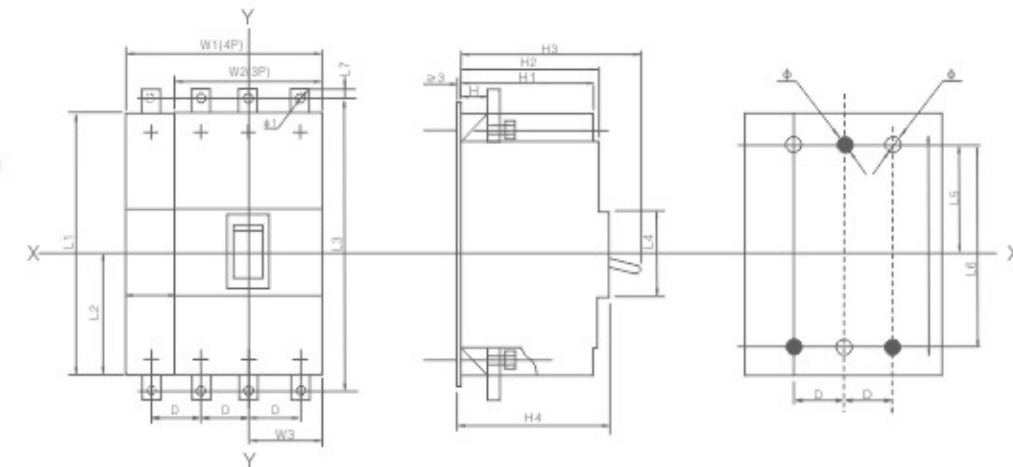
DAM1-250~1600

DAM1-250~630L

DAM1X-250~800

板前连接线

Connect wire in front of board



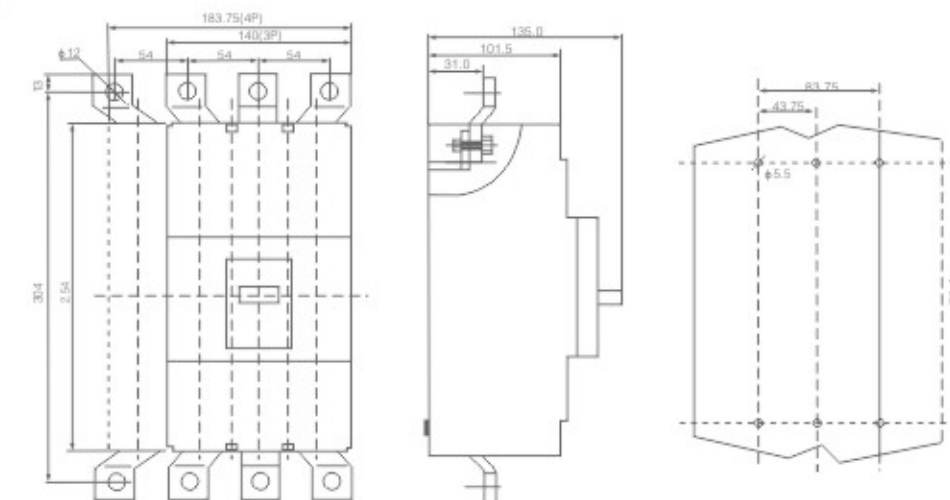
型号 Type	D	L1	L2	L3	L4	L5	L6	W1	W2	H	H1	H2	H3	H4	φ	L7	φ 1
DAM1-250	35	170	87.25	206	105	73.75	139	140	105	25	101.5	103.5	135	114	5.5	10.8	φ 8.5
DAM1-250L	35	210	112.5	246	105	73.75	179	140	—	25	101.5	103.5	135	114	5.5	10.8	φ 8.5
DAM1x-250	35	255	87.25	278.5	105	154.5	224	140	105	25	101.5	103.5	135	114	5.5	10.8	φ 8.5
DAM1x-400	43.75	339	125.25	366	105	192.5	299	183.75	140	25	101.5	103.5	135	114	5.5	12.0	φ 10.5
DAM1-630 (400A)	43.75	254	125.25	281	105	107.25	214	183.75	140	25	101.5	103.5	135	114	5.5	12.0	φ 14
DAM1-630L (400L)	43.75	254	117.5	281	105	107.25	214	183.75	—	25	101.5	103.5	135	114	5.5	12.0	φ 10.5
DAM1-800	70	268	142.75	241	105	109.25	237	280	210	23	101.5	103.5	161	117	5.5	10.0	φ 11
DAM1x-800	70	406	142.75	479	105	256.5	375	280	210	23	101.5	103.5	161	117	5.5	10.0	φ 11
DAM1-1600	70	406	189	513	105	203	378	280	210	39	140	142	196	155	5.5	13.5	φ 11

固定式 Fixed type

DAM1-630(500A、630A)

板前连接线

Connect wire in front of board



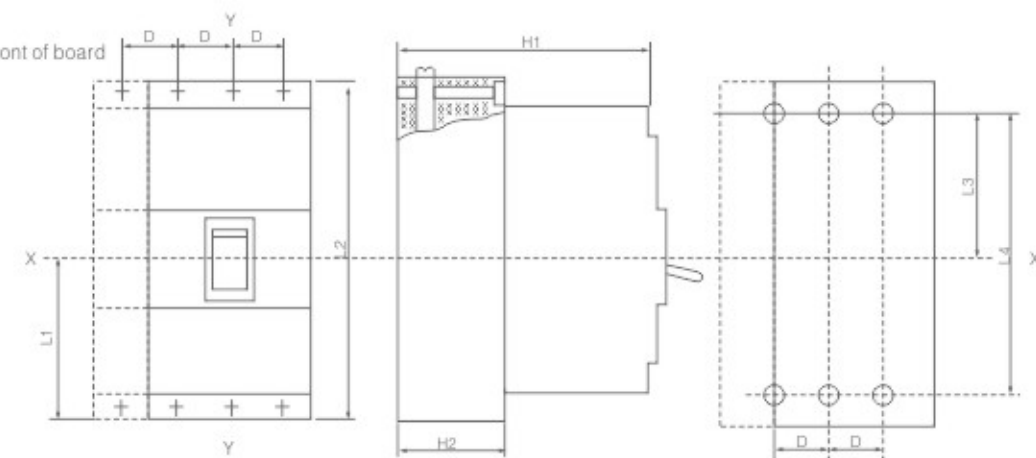
Overall and installation size 产品及安装尺寸

插入式 Plug-in version

DAM1-63~160
DAM1X-160

板前连接线

Connect wire in front of board



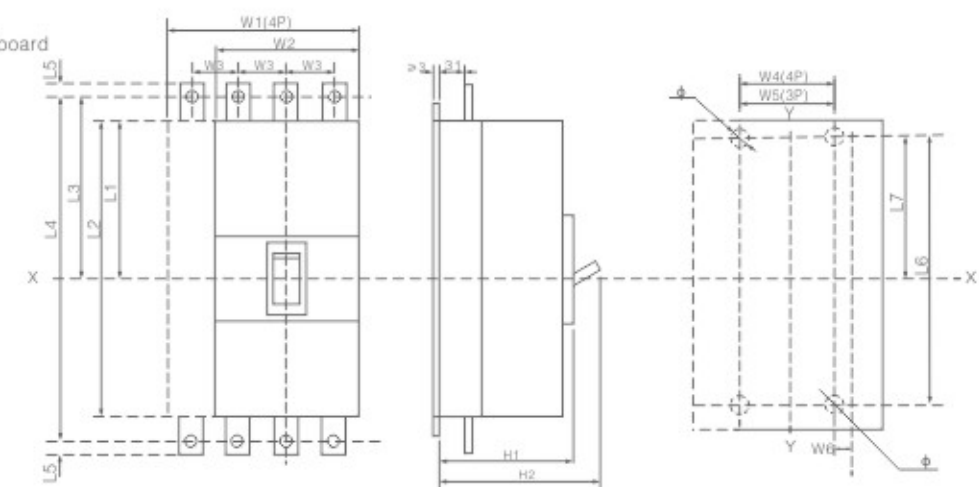
型号 Type	D	L1	L2	L3	L4	H1	H2
DAM1-63 125	25	70	163	84	144	123	52
DAM1-160	30	70	163	84	144	123	52
DAM1X-160	30	70	163	84	144	123	52

插入式 Plug-in version

DAM1-250~630
DAM1-630L(400L)

板前连接线

Connect wire in front of board



型号 Type	L1	L2	L3	L4	L5	L6	L7	W1	W2	W3	W4	W5	W6	H1	H2	φ
DAM1-250	89.75	175	107.25	210	10	52.25	100	140	105	35	105	70	25	153	184.5	5
DAM1-630(400)	127.75	259	150.75	305	14	65.75	135	183.75	140	43.75	160	115	58	153	184.5	6
DAM1-630L(400L)	127.75	259	150.75	305	14	65.75	135	183.75	140	43.75	160	115	58	153	184.5	6

Overall and installation size 产品及安装尺寸

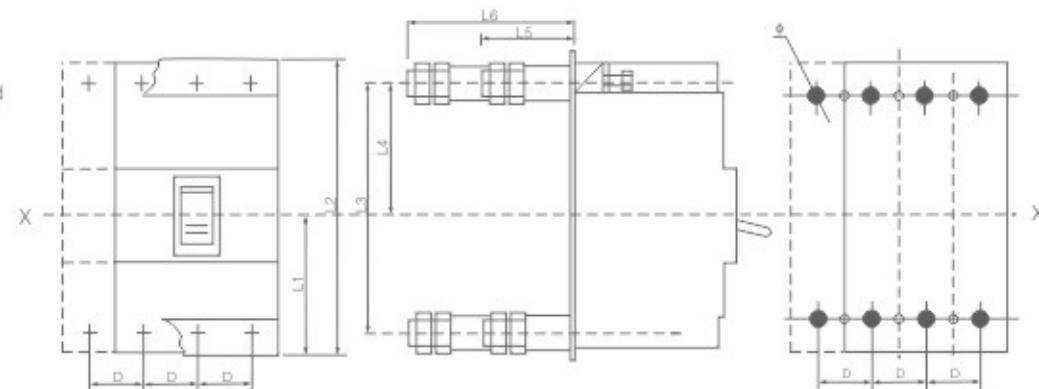
固定式 Fixed type

DAM1-63~800
DAM1-60~630L

DAM1X-160~630

板后连接线

Connect wire behind board



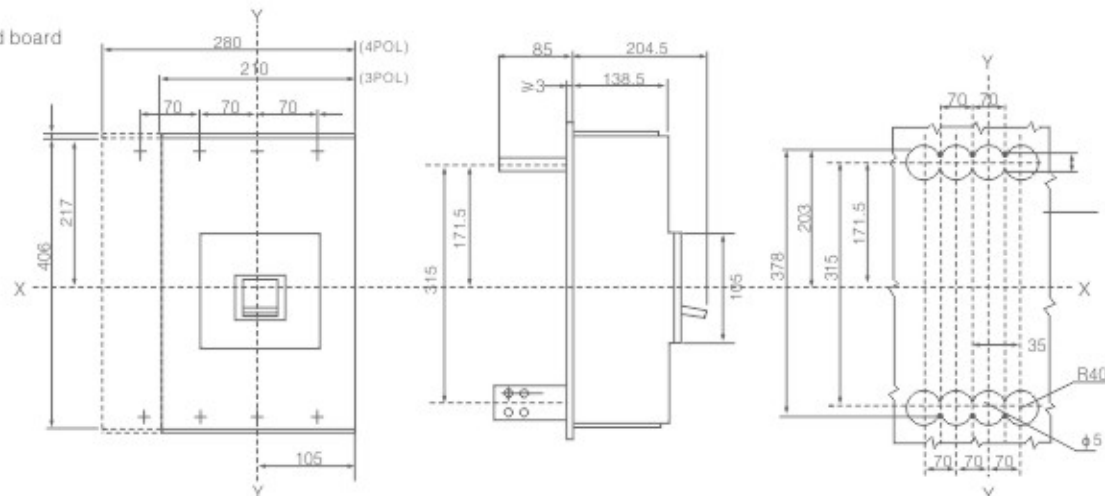
型号 Type	D	L1	L2	L3	L4	L5	L6	φ
DAM1-63/125	25	50	124	102	39	43	76	18
DAM1-63/125L	25	83	155	135	39	43	76	18
DAM1-160	30	50	124	102	39	43	76	18
DAM1-160L	30	83	155	135	39	43	76	18
DZM1X-160	30	50	124	102	39	43	76	18
DAM1-250	35	85.25	175	145	73.75	55	105	24
DAM1-250L	35	112.5	210	179	73.75	55	105	24
DAM1X-250	35	85.25	255	224	123.5	55	105	24
DAM1X-400	43.75	131.25	285	254	153.5	55	105	30
DAM1-630	43.75	131.25	259	218	107.25	55	105	30
DAM1-630L(400L)	43.75	117.5	254	218	107.25	55	105	30
DAM1-800	70	145.25	273	241	117.25	55	74.5	50

固定式 Fixed type

DAM1H-1600

板后连接线

Connect wire behind board



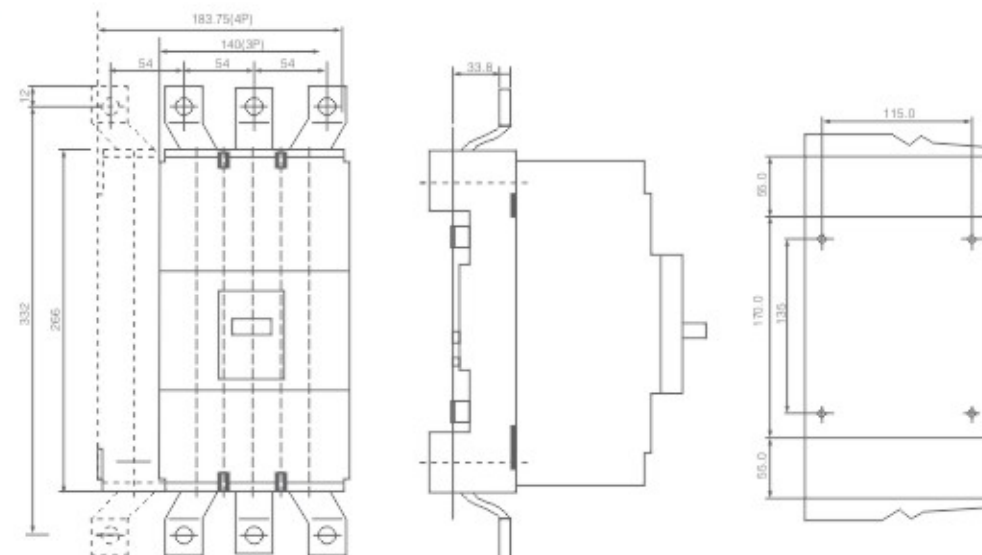
Overall and installation size 产品及安装尺寸

插入式 Plug-in version

DAM1-630

板前接线

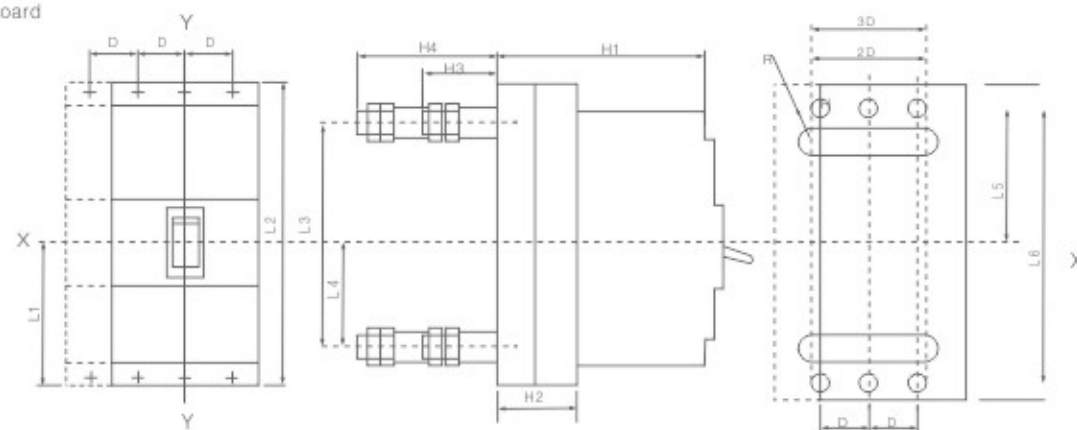
Connect wire in front of board



插入式 Plug-in version

板后接线

Connect wire behind board



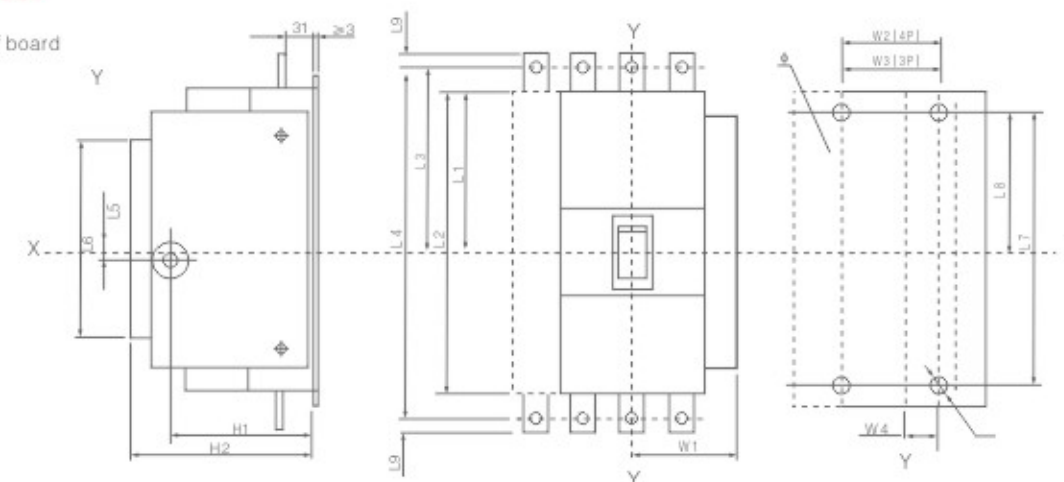
型号Type	D	L1	L2	L3	L4	L5	L6	H1	H2	H3	H4	H5
DAM1-63 125	25	70	163	102	39	84	144	123	52	50	80	13
DAM1-160	30	70	163	102	39	84	144	123	52	50	80	13
DAM1-250	35	85.25	175	143	69.2	52.5	100	184.5	83	52	96	14
DAM1X-250	35	85.25	175	143	69.2	52.5	100	184.5	83	52	96	14
DAM1X-400	43.75	131.25	259	218	110.75	107.25	218	184.5	83	55	100	14
DAM1-630	43.75	131.25	259	218	110.75	107.25	218	184.5	83	55	100	14
DAM1-630L(400L)	43.75	131.25	259	218	110.75	107.25	218	184.5	83	55	100	14

Overall and installation size 产品及安装尺寸

抽出式 Draw-out version

板前接线

Connect wire in front of board

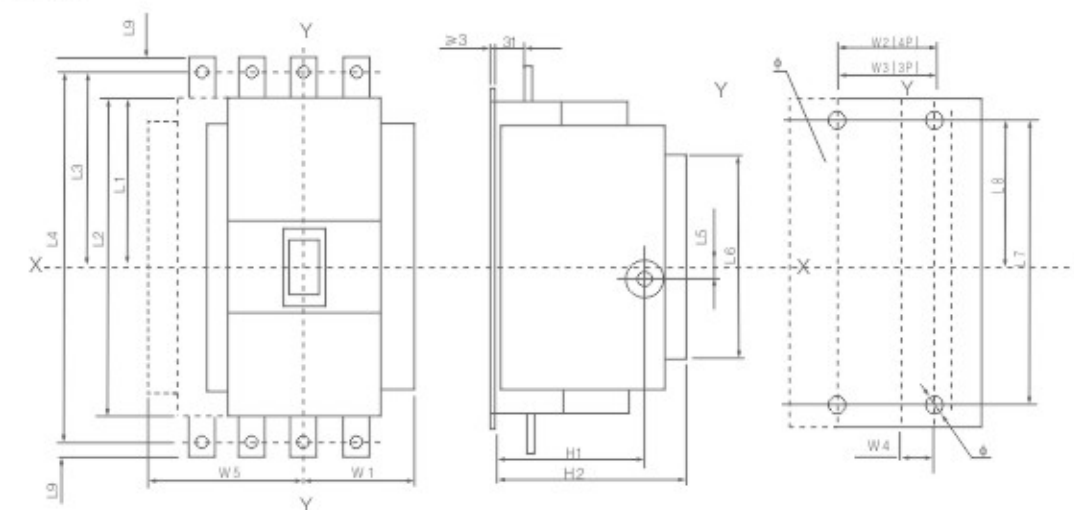


型号Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	W1	W2	W3	W4	W5	H1	H2	φ
DAM1-250	89.75	175	107.25	210	1.75	105	52.25	100	106	84	105	70	25	-	167	190	5
DAM1-630	127.75	259	150.75	305	1.75	105	65.75	135	140	101.5	160	115	58	-	167	190	6

抽出式 Draw-out version

板前接线

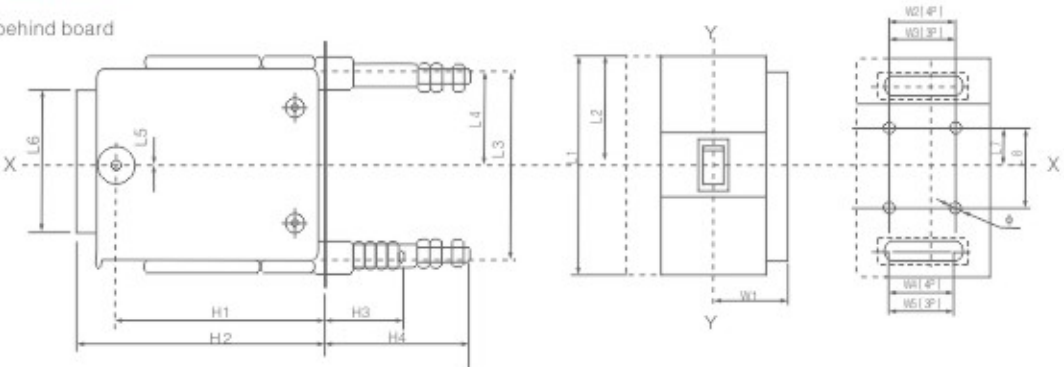
Connect wire in front of board



型号Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	W1	W2	W3	W4	W5	H1	H2	φ
DAM1-800	133	295	158	345	14.5	140	45.5	120	20	136.5	210	210	140	193.5	167	190	8.5
DAM1-1600	211.25	406	268.25	520	8.25	140	68.25	120	-	136.5	210	210	140	193.5	218.5	241.5	8.5

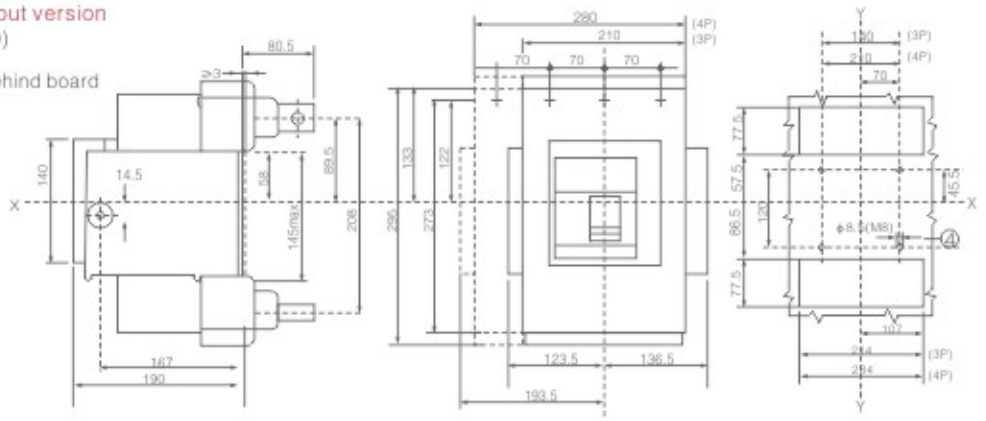
Overall and installation size 产品及安装尺寸

抽出式 Draw-out version
板后连接线
Connect wire behind board

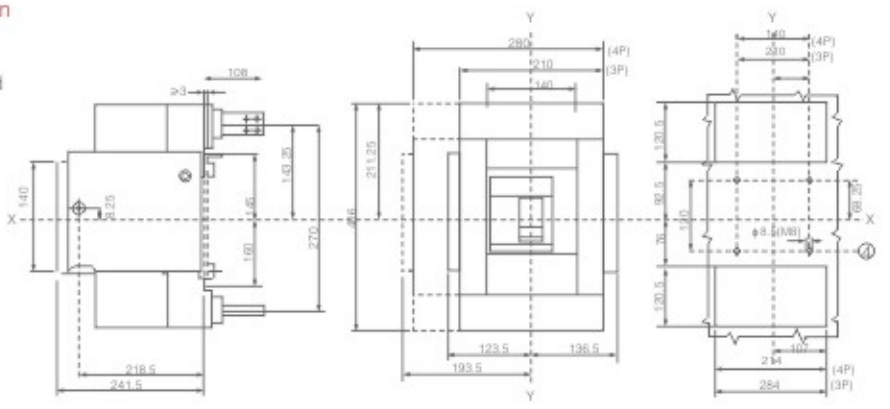


型号 Type	L1	L2	L3	L4	L5	L6	L7	L8	W1	W2	W3	W4	W5	H1	H2	H3	H4	φ
DAM1-250	175	87.75	143	73.75	1.75	105	52.25	100	84	105	70	70	105	167	190	52	96	5
DAM1X-250	175	87.75	143	73.75	1.75	105	52.25	100	84	105	70	70	105	167	190	52	96	6
DAM1X-400	259	127.75	218	107.25	1.75	105	65.75	135	101.5	160	115	87.5	131.25	167	190	55	100	6
DAM1-630	259	127.75	218	107.25	1.75	105	65.75	135	101.5	160	115	87.5	131.25	167	190	55	100	6
DAM1-630L(400L)	259	127.75	218	107.25	1.75	105	65.75	135	101.5	160	115	87.5	131.25	167	190	55	100	5

抽出式 Draw-out version
DAM1-800(630)
板后连接线
Connect wire behind board



抽出式 Draw-out version
DAM1-1600(1250)
板后连接线
Connect wire behind board



DAM3系列塑壳断路器
DAM3 series MCCB

MCCB



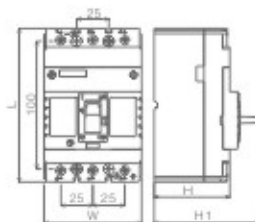
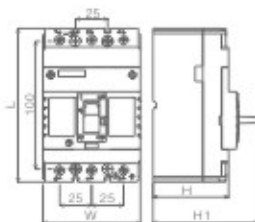
DAM3系列塑壳断路器

DAM3 series MCCB



壳架等级额定电流 Rated current of frame size Inm		100				160			
额定电流 Rated current		10-100				12.5-160			
极数 Number of poles		1 / 2 / 3 / 4				1 / 2 / 3 / 4			
额定工作电压 Rated operating voltage	交流 50-60赫兹 (AC)50-60HZ [V]	400/690				400/690			
	直流 DC [V]	250/1000				250/1000			
额定冲击耐受电压 Rated impulse withstand voltage Uimp [KV]		8				8			
额定绝缘电压 Rated insulation voltage Ui [V]		1000				1000			
1分钟工业频率下试验电压 Test voltage at industrial frequency for 1 min [V]		3000				3000			
额定极限短路分断能力 Rated ultimate short-circuit breaking capacity Icu [KA]		A	B	C	N	A	B	C	N
交流50-60赫兹220/230V (AC)50-60HZ 220/230V		18	28	36	50	18	28	36	50
交流50-60赫兹400/415V (AC)50-60HZ 400/415V		12	18	25	36	12	18	25	36
交流50-60赫兹690V (AC)50-60HZ 690V		4	6	8	12	4	6	8	12
直流250V-2极系列 (DC)250V-2 Poles in series		12	18	22	30	12	18	22	30
直流500V-2极系列 (DC)500V-2 Poles in series		6	8	10	12	6	8	10	12
直流750V-4极系列 (DC)750V-4 Poles in series		10	15	18	22	10	15	18	22
直流1000V-4极系列 (DC)1000V-4 Poles in series		8	12	15	18	8	12	15	18
额定运行短路分断能力 Rated service short-circuit breaking capacity, Ics [KA]									
交流50-60赫兹220/230V (AC)50-60HZ 220/230V [%Icu]		60%	60%	60%	50%	60%	60%	60%	50%
交流50-60赫兹400/415V (AC)50-60HZ 400/415V [%Icu]		60%	60%	60%	50%	60%	60%	60%	50%
交流50-60赫兹690V (AC)50-60HZ 690V [%Icu]		60%	60%	60%	50%	60%	60%	60%	50%
使用类别 category of utilisation		A				A			
隔离条件 Isolation condition		■				■			
相关标准 Reference standard		IEC/EN 60947-2/GB 14048.2				IEC/EN 60947-2/GB 14048.2			
可交换性 Interchangeability		-				-			
安装形式 Installation type	固定式 Fixed	■				■			
	插入式 Plug-in	■				■			
	抽出式 Draw-out	-				-			
使用寿命 Endurance	总次数 Total cycles	10000				10000			
	电气寿命 Electrical endurance	1500				1500			
	机械寿命 Mechanical endurance	8500				8500			
外形尺寸 Basic dimensions -fixed version	3/4 极 3/4 Poles 宽 W [mm]	27(1P) / 54(2P) / 76 / 101				27(1P) / 54(2P) / 76 / 101			
	3/4 极 3/4 Poles 厚 H [mm]	59		62.5		59		62.5	
	厚 H1 [mm]	78.5		82		78.5		82	
	3/4 极 3/4 Poles 长 L [mm]	120				120			
重量 Weight	固定式 3/4 极 Fixed 3/4 Poles [Kg]								
	插入式 3/4 极 Plug-in 3/4 Poles [Kg]	-				-			
	抽出式 3/4 极 Draw-out 3/4 Poles [Kg]	-				-			

外形尺寸 Outline dimensions [mm]

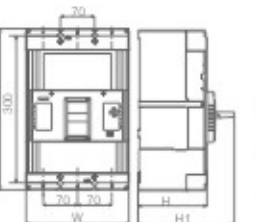
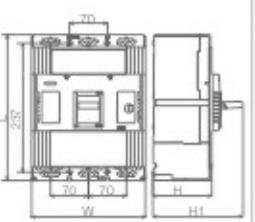
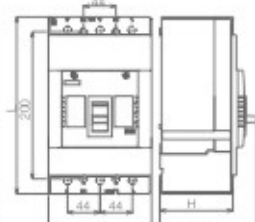
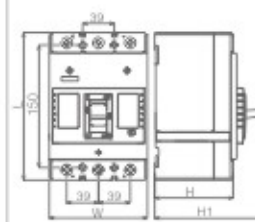
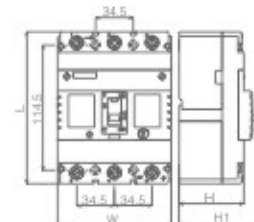


备注: 1.B-基本型; 2.C-通用型; 3.N-普通型; 4.S-标准型; 5.H-高分断型

Remark: 1.B-Basic type; 2.C-Common type; 3.N-Normal type; 4.S-Standard type; 5.H-Higher breaking capacity type;



250				400				630			1000			1600		
100–250		100–225		200–400				315–630			630 800 1000			1000 1250 1600		
2 / 3 / 4				3 / 4				3 / 4			3 / 4			3 / 4		
400/690				400/690				400/690			400/690			400/690		
250/1000				250/1000				250/1000			250/1000			250/1000		
8				8				8			8			8		
1000				1000				1000			1000			1000		
3000				3000				3000			3000			3000		
B	C	N	S	C	N	S	H	N	S	H	N	S	H	S	H	G
30	36	50	75	45	55	80	105	55	80	105	55	80	105	80	105	130
18	25	36	50	30	36	55	70	36	55	70	36	55	70	55	70	100
6	8	12	15	12	15	20	25	15	20	25	15	20	25	20	25	30
18	22	30	40	30	35	50	65	35	50	65	35	50	65	50	65	80
9	12	15	20	12	18	22	30	18	22	30	18	22	30	22	30	40
16	18	22	30	18	30	42	55	30	42	55	30	42	55	42	55	68
13	15	18	25	15	25	35	45	25	35	45	25	35	45	35	45	55
60%	60%	60%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
60%	60%	60%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
60%	60%	60%	50%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%	60%
A				A				A			A			A		
■				■				■			■			■		
IEC/EN 60947–2/GB 14048.2				IEC/EN 60947–2/GB 14048.2				IEC/EN 60947–2/GB 14048.2			IEC/EN 60947–2/GB 14048.2			IEC/EN 60947–2/GB 14048.2		
■				■				■			■			■		
■				■				■			■			■		
■				■				■			■			■		
–				■				■			■			■		
10000				8000				6000			5000			5000		
1500				1000				1000			1000			1000		
8500				7000				5000			4000			4000		
70(2P) / 104 / 139				120/159			140/210	140/210			210/280			210/280		
59		62.5		100			100	100			108.5			140		
78.5		82		133.5			135	135			167			196		
139				180			215	215			268			328		
–				–				–			–			–		
–				–				–			–			–		





Electical operating mechanism 电动机操作机构

1. 电动操作机构用于远距离控制断路器合闸。
2. 提供用户的电动机操作机构品种规格见表15。
1. The electrical operating mechanism is available remote close of MCCB.
2. The types of electrical operating mechanism are shown in table15.

表15 Table 15

电流壳架 Rated current of frame size(Inm(A))	可供选择的电动操作机构 Selection of types of electrical operating mechanism		
	CD1	CD2	CD3
63/63L	-	CD2-63	-
125/125L	-	CD2-100	-
160/160L	-	CD2-160	-
250/250L	CD1-250	-	-
630(400)/630L(400L)	CD1-400	-	-
800	-	-	CD3-800
1600(1250)	-	-	CD3-1600

CD1 Type Electical operating mechanism CD1型电动机操作机构



1. 电动机直接合闸及分闸兼有手动分合闸模式。
2. 具有手动紧急断开按钮。
3. 用户可装置断开位置锁，防止断路器合闸。
4. 适用的断路器：
① Inm=250A
② Inm=400A
请用户在订货时要注明具体规格。
5. 选购附件
1. Direct-acting, and manual close/open of MCCB.
2. Equipped with emergency opening button.
3. Customer can fit padlock on it for MCCB in open position
4. Suitable for MCCBs: ① Inm=250A ② Inm=400A
The specific type should be stated clearly in your order
5. Selectable accessories.

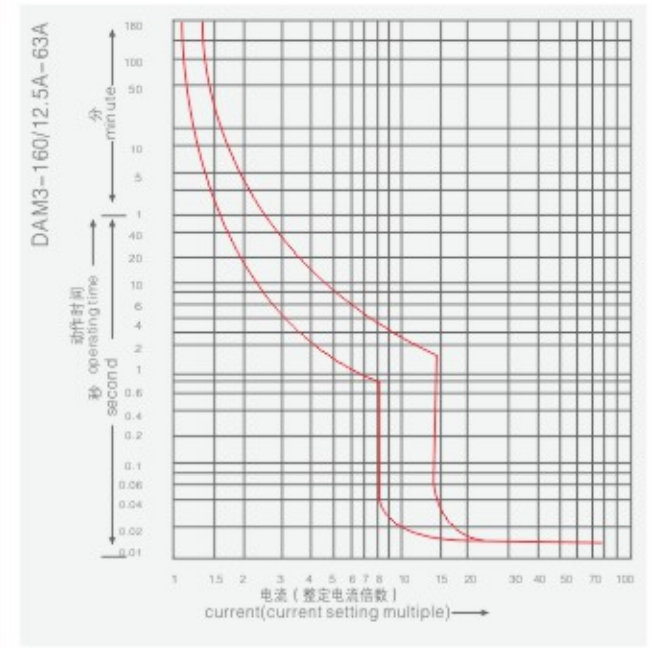
Action Characteristic 动作特性

表16 Table 16

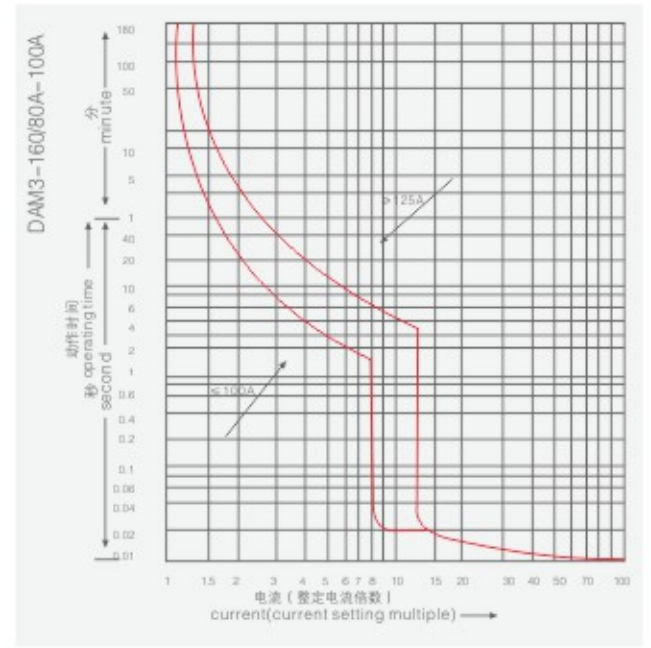
操作的电气附件 Electrical accessories				电动机操作机构 Electrical operating mechanism		
操作电源电压范围 Range of supply Voltage				(0.85—1.1) × Us		
额定控制电源电压 Rated control supply voltage	电源 Power supply	功耗 Power loss	AC 50Hz	220V	380V	
			启动功耗 Interrupt power consumption	510VA	510VA	
			持续功耗 Normal loss	360VA	360VA	
			DC	110VA	220VA	
		功耗 Power loss	启动功耗 Interrupt power consumption	510VA	510VA	
			持续功耗 Normal loss	360VA	360VA	
			合闸时间 Closing time		0.1 s	
			分闸时间 Opening time		0.1 s	



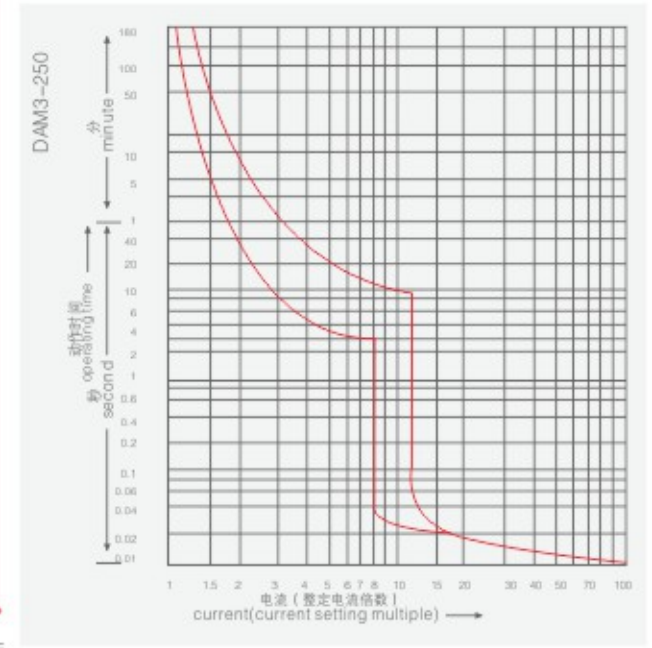
Protective Curve 特性曲线



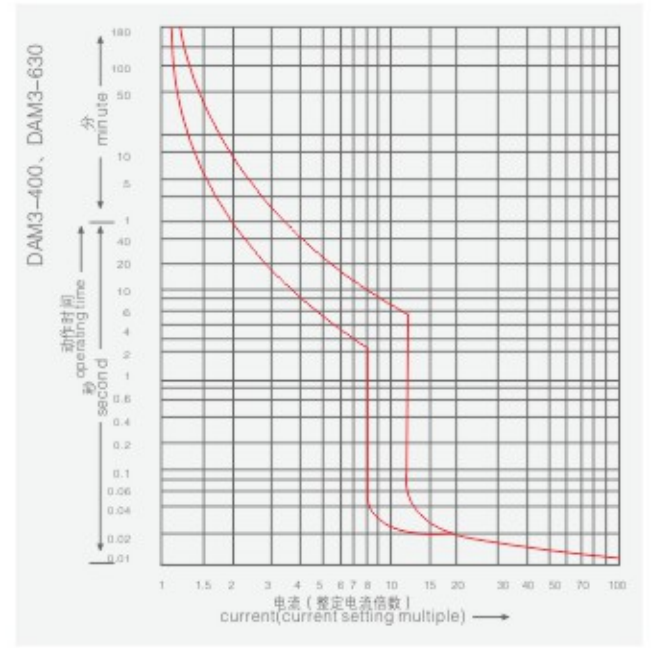
DAM3-160/12.5A-63A



DAM3-160/80A-100A



DAM3-250



DAM3-400, DAM3-630

CD2 Type Electical operating mechanism

CD2型电动机操作机构



1.电动机直接合闸、分闸兼有手动模式

2.适用的断路器:

①Inm=63A ②Inm=100A
③Inm=160A ④Inm=250A

请用户在订货时要注明具体规格。

3.选购附件

1. Direct-acting, and manual close/open of MCCB.

2. Suitable for MCCBs:

①Inm=63A ②Inm=100A
③Inm=160A ④Inm=250A

The specific type should be stated clearly in your order.

3. Selectable accessories.

表 Table 17

操作的电气附件 Electrical accessories				电动机操作机构 Electrical operating mechanism	
操作电源电压范围 Range of supply Voltage				(0.85~1.1) × Us	
额定控制电源电压 Rated control supply voltage	电源 Power supply	AC 50Hz		220V	380V
		功耗 Power loss	启动功耗 Irrupt power loss	220VA	200VA
			持续功耗 Normal power loss	110VA	110VA
		DC		110V	220V
		功耗 Power loss	启动功耗 Irrupt power loss	200W	200W
			持续功耗 Normal power loss	110W	110W
合闸时间 Closing time				0.1s	
分闸时间 Opening time				0.1s	

CD3 Type Energy stored electical operatirng mechanism

CD3型预储能电动机操作机构



1.可电动机预储能,亦可手动预储能。

2.可电力合闸,亦可手动合闸。

3.用户需合闸断路器时,分二步进行。先储能完毕,再合闸断路器。

4.具有电动断开功能。

5.具有手动紧急断开按钮。

6.用户可装置断开位置锁,防止断路器合闸。

7.适用的断路器: ①Inm=630A ②Inm=800A ③Inm=1250A ④Inm=1600A

1. Spring charged by motor or manual.

2. Close by motor or manual.

3. For closing of MCCB, the procedures are: energy stored with spring charged by motor, then closing MCCB.

4. Having electrical opening function.

5. Equipped with emergency opening button.

6. Customer can fit padlock on it for MCCB in open position

7. Suitable for MCCB: ①Inm=630A ②Inm=800A ③Inm=1250A ④Inm=1600A

The specific type should be stated clearly in your order

8. Selectable accessories.

Action Characteristic

动作特性

表 18 Table 18

操作的电气附件 Electrical accessories				电动机操作机构 Electrical operating mechanism	
操作电源电压范围 Range of supply Voltage				(0.85~1.1) × Us	
额定控制电源电压 Rated control supply voltage	电源 Power supply	AC 50Hz		220V	380V
		功耗 Power loss	启动功耗 Irrupt power loss	660VA	660VA
			持续功耗 Normal power loss	180VA	180VA
		DC		110V	220V
		功耗 Power loss	启动功耗 Irrupt power loss	600W	600W
			持续功耗 Normal power loss	180W	180W
合闸时间 Closing time				0.1s	
分闸时间 Opening time				0.3s	

Rotary handle operating mechanism

旋转手柄操作机构

1.旋转手柄操作机构可用于:

①在断路器上用旋转手柄控制断路器的合闸与分闸。

②在开关柜门外用旋转手柄控制断路器的合闸与分闸。

③用旋转手柄操作机构与开关柜小室门进行联锁。防止断路器在合闸状态下,开关柜的门被打开。

2.用户可装置断开位置锁,防止断路器合闸。(最多可挂3把直径为6mm的挂锁,用户自备)。

3.一台断路器配独立钥匙和锁。

4.二台断路器配二把相同锁、一把钥匙。

5.三台断路器配三把相同锁、二把相同钥匙。

6.提供用户的旋转手柄操作机构品种规格见表19

1. The rotary handle operating mechanism is suitable for:

① Closing and opening of MCCB by the rotary handle on MCCB.

② Closing and opening of MCCB by the rotary handle on the compartment door of switch board;

③ Interlocking between the rotary handle operating mechanism and compartment door to prevent the compartment door from be opened in case of MCCB in closed state.

2. Customer can fit padlock on it for MCCB in open position (up to a max of 3 padlocks with max 6mm dia).

3. One key and one lock for one MCCB

4. One key and two lock for two MCCB

5. Two keys and three locks for three MCCB

6. The types of rotary handle operating mechanism are given in. Table 19.

Action Characteristic

动作特性

表 19 Table 19

壳架等级 额定电流 Rated current of frame size Inn	选用旋转手柄操作机构型号									
	装置在断路器上 On MCCB		装置在开关柜小室门上（选用：手柄+操作机构） On compartment door (selection: Handle+Mechanism)							
			手柄 Handle				操作机构 Operation mechanism			
	CS2	CS2/L	A型（圆型） A type (Round)		B型（方型） B type (Square)		CS1（中心式） CS1(central)		CSS（偏心式） CS1(Eccentric)	
			A-1 短柄 Short handle	A-2 长柄 Long handle	F1-1 短柄 Short handle	F-2 长柄 Long handle	CS1/L 配联锁 With interlock	CSS/L 配联锁 With interlock		
63/63L	—	—	A-1	—	F1-1	—	—	—	CSS-63	CSS/L-63
125/125L	—	—	A-1	—	F1-1	—	—	—	CSS-100	CSS/L-100
160/160L	—	—	A-1	—	F1-1	—	—	—	CSS-160	CSS/L-160
250/250L	CS2-250	CS2/L-250	A-1	—	F1-1	—	CS1-250	CS1/L-250	CSS-250	CSS/L-250
630(400) 630L(400L)	CS2-400	CS2/L-400	A-1	—	F1-1	—	CS1-400	CS1/L-400	CSS-400	CSS/L-400
800	CS2-800	CS2/L-800	—	A-2	—	F1-2	CS1-800	CS1/L-800	CSS-800	CSS/L-800
1600(1250)	CS2-1600	CS2/L-1600	—	A-2	—	F1-2	CS1-1600	CS1/L-1600	CSS-1600	CSS/L-1600

CSS Rotary handle operating mechanism

CSS旋转手柄操作机构



1. 偏心结构。
2. 装置在断路器上。
3. 可配A型或F型手柄。
4. 可配与小室门联锁装置。
5. 选购附件。

1. Eccentric structure.
2. Mounted on MCCB.
3. Fitted with A type or F type handle.
4. Interlock with compartment door.
5. Selectable accessories.

CS2 Rotary handle operating mechanism

CS2旋转手柄操作机构



1. 装置在断路器上。
2. 具有断开位置锁装置。
3. 可配与小室门联锁装置。
4. 选购附件。

1. Mounted on MCCB.
2. Key lock for MCCB in open position.
3. Interlock with compartment door.
4. Selectable accessories.

A type handle

A型手柄



1. 短柄结构。
2. 装置在小室门上。
3. 可配CS1、CSS型操作机构。
4. 防护等级达到IP30。
5. 选购附件。

1. Short handle structure.
2. Mounted on compartment door.
3. Mountable Cs1 or CSS operating mechanism.
4. Degree of protection Ip30.
5. Selectable accessories.

F1-1 type handle

F1-1型手柄



1. 短柄结构。
2. 装置在小室门上。
3. 可配CS1、CSS型操作机构。
4. 防护等级达到IP30。(同时可提供防护等级为Ip54的手柄)
5. 选购附件。

1. Short handle structure.
2. Mounted on compartment door.
3. Mountable Cs1 or CSS operating mechanism.
4. Degree of protection Ip30.(The handle of Ip54 is available on request)
5. Selectable accessories.

1. 长柄结构。
2. 装置在小室门上。
3. 可配CS1、CSS型操作机构。
4. 防护等级达到IP30。(同时可提供防护等级为Ip54的手柄)
5. 选购附件。

1. Long handle structure.
2. Mounted on compartment door.
3. Mountable Cs1 or CSS operating mechanism.
4. Degree of protection Ip30.(The handle of Ip54 is also available on request)
5. Selectable accessories.

Motor-driven mechanism

电动操作机构

功能:

- ◆ 隔离功能提示
- ◆ 帮助断路器脱扣
- ◆ 手动或自动分合闸断路器
- ◆ 手动操作
- ◆ 将手动/自动切换到自动位置, 然后转动手柄分合闸断路器
- ◆ 自动操作
- ◆ 将手动/自动切换至手动位置, 然后按下按钮可远程分合闸断路器
- ◆ 接通/断开操作是通过脉冲或自动保持型信号控制
- ◆ 操作范围: 85% UN~110% UN

Functions:

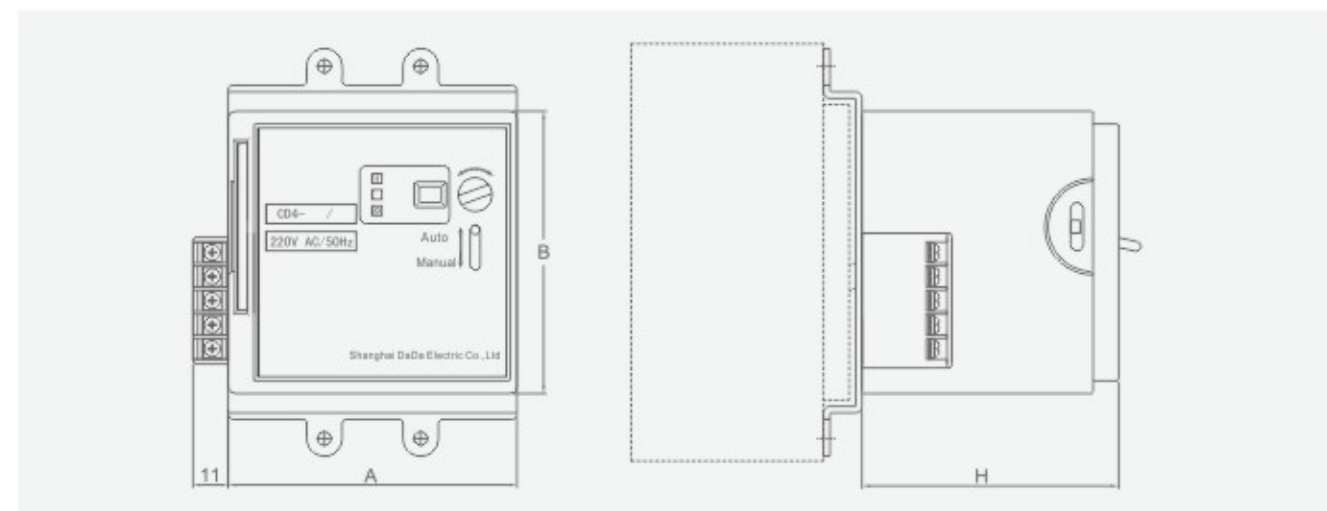
Isolation function indication;
 0(breaking), 1(making) and free tripping indication;
 Free releasing of circuit breaker;
 Making and breaking the breaker manually or automatically
 Making and breaking the breaker manually or automatically
 Manual operation
 Turn "manual/auto" switch to "auto" position and then turn the handle to make and break the breaker.
 Automatic operation:
 Turn "manual/auto" switch to "manual" position and then Push the button to make and break the breaker remotely.
 The make/break operation is carried out via pulse or self-retaining type signal control.
 Operational range: 85% Un~110% Un.

主要技术参数

1. 额定电压 (Ue): 交流50HZ 400V, 230V直流250V
2. 工作电压范围: (85%~110%) Ue
3. 承受电压: AC1800V 1min
4. 电机功率: 180W左右
5. 工作频率: 60~120 /小时
6. 电寿命: 5000~10000次

Main technical parameters

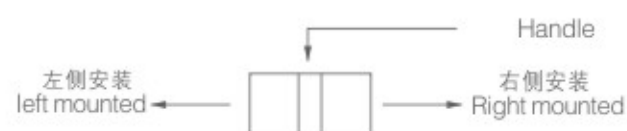
1. Rated voltage (Ue): AC 50Hz 230V, 400V; DC 250V.
2. Operating voltage range: (85%~110%) Ue.
3. Withstand voltage: AC 1800V 1min.
4. Motor power :About 180W.
5. Operating frequency: 60~120/h.
6. Electrical life: 5000~10000 times



规格 Specification	适用于断路器型号 Apply to circuit-breaker models	外观 Appearance(mm)		
		A	B	H
CD-125	DAM1-125	76	88	80
CD-160	DAM1-160	90	88	80
CD-250	DAM1-250	104	90	80
CD-400	DAM1-400	150	140	112
CD-800(630)	DAM1-800	140	150	112
CD-1600	DAM1-1600	140	153	123

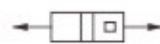
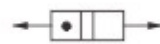
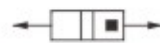
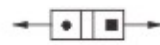
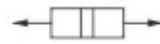
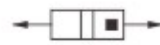
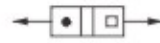
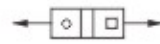
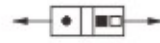
Release pattern and accessories code

脱扣方式及附件代码



- 报警触头 Alarm contact
- 辅助触头 Auxiliary contact
- 分励脱扣器 Shunt release
- 欠电压脱扣器 Under-voltage release
- 导线方向 Line direction leaded

见表2 Table 2

配件代码 Accessories code	配件名称 Accessories name	类型 Type	DAM1-63-1250 DAM1L-63-400
208、308	报警触头 Alarm contact		
210、310	分励脱扣器 Shunt release		
220、320	辅助触头 Auxiliary contact		
230、330	欠电压脱扣器 Under voltage release		
240、340	分励脱扣器、辅助触头 Shunt release, auxiliary contact		
250、350	分励脱扣器、欠电压脱扣器 Shunt release, Under voltage release		
260、360	双辅助触头 Two groups of auxiliary contact		
270、370	辅助触头、欠电压脱扣器 Auxiliary contact, Under voltage release		
218、318	分励脱扣器、报警触头。 Shunt release, Alarm contact		
228、328	辅助触头、报警触头。 Auxiliary contact, Alarm contact		
238、338	欠电压脱扣器、报警触头 Under voltage release, alarm contact		
248、348	分励脱扣器、辅助触头、报警触头。 Shunt release, auxiliary contact, alarm contact		
268、368	二组辅助触头、报警触头。 Two groups of auxiliary contact, alarm contact		
278、378	辅助触头、欠电压脱扣器、报警触头 Auxiliary contact, Under voltage release, alarm contact		



Inner accessory

内部附件

Shunt release series

分励脱扣器系列

分励脱扣器用途:

分励脱扣器用于远距离控制断路器瞬间分闸，脱扣器为瞬时工作制。

Shunt release application:

The shunt release is intended for remote controlling of open of MCCB Release instantaneous duty.



分励脱扣器动作特性:

Characteristics of Shunt release:

操作的电气附件 Electrical accessories		分励脱扣器 Shunt release	
操作电源电压范围 Range of supply voltage		(0.7-1.1) × Us	
额定控制电源电压 Rated control supply voltage us	电源 Power supply	AC 50Hz	220V
		功耗 Power loss	150VA
		DC	110V
		功耗 Power loss	150W

分励脱扣器接线图:

Wiring diagram of Shunt release:

SB2-分闸按钮 (用户自备)

P3,P4接线端编号

Us-控制电源

QF-自锁辅助触头

仅虚线由用户连接，其余接线已由工厂接好，供用户参考

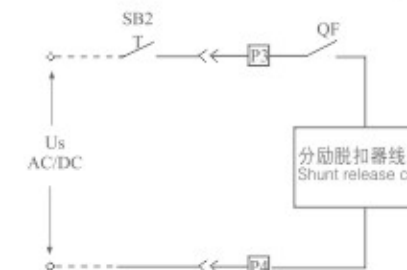
SB2-Opening Push-button (ready by user)

P3,P4-Terminal number

Us-Control power

QF-Auxiliary contact

Only broken lines are connected by user, other wiring have been connected by factory, which offers user reference.



适用于DAM1模型 Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
分励脱扣器系列 Shunt release	125/160FT		250/400FT		800/1600FT	

Under Voltage release series 欠电压脱扣器系列

欠电压脱扣器用途:

欠电压脱扣器用作线路及电源设备的欠电压保护作用。
脱扣器为长时工作制。

Under voltage release application:

The under voltage release is intended for under voltage protection of circuit and electric equipment. Release uninterrupted duty.

欠电压脱扣器动作特性:

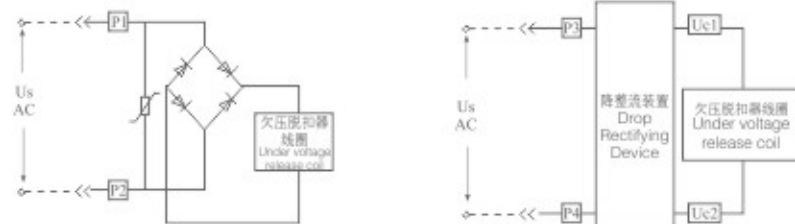
Characteristics of Under voltage release:

额定工作电压 Ue(V)Rated operational voltage	AC380	AC220	DC110	DC220
动作电压 Operational voltage	$(0.35-0.7) \times U_e$			
保证合闸电压 Ensured closing voltage	$(0.85-1.1) \times U_e$			
保证不能合闸电压 Ensured non closing voltage	$\leq 0.35U_e$			
功耗 Power loss	10VA		4W	

欠电压脱扣器接线图:

Wiring diagram of Under voltage release:

Us-控制电源 Us-Control Power
P1, P2-接线端标号 P1,P2-Teminal number
Uc1, Uc2-接线端标号 Uc1,Uc2-Terminal number
63A-1600A嵌入式 63A-1600A Embedded
63A-1600A外挂式 63A-1600A Attached



仅虚线由用户连接,其余接线已由工厂接好,供用户参考。
Only broken lines are connected by user, other wiring have been connected by factory, which offers user reference.

适用于DAM1模型 Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
欠电压脱扣器系列 Under voltage release series	125/160QT		250/400QT		800/1600QT	

Auxiliary contacts series 辅助触头系列

辅助触头用途:

辅助触头用于对断路器的控制回路作自动控制之用。如断路器的分断及合闸状态的信号指示。

Auxiliary contacts application:

The auxiliary contacts are intended for automatical controlling of the auxiliary circuit of MCCB, such as indication of the open and close states of MCCB.

辅助触头规格:

- 1)一常开一常闭
- 2)二常开二常闭
- 3)四常开四常闭

Auxiliary contacts size:

- 1).1N/O and 1N/C
- 1).2N/O and 2N/C
- 3).4N/O and 4N/C

辅助触头接线图:

Wiring diagram of Auxiliary contacts:

断路器状态 State of MCCB	辅助触头状态 State of auxiliary contacts	接线图 diagram of wiring
合闸位置 Close position	◆ 一组辅助触头, 提供二对触头 ◆ 适用Inm=63A~225A ◆ 1 set of auxiliary contacts, but 2 sets of contacts to be supplied ◆ For Inm=63A~225A	
	◆ 二组辅助触头, 提供四对触头 ◆ 适用Inm=250A~1600A ◆ 2 sets of auxiliary contacts, but 4 sets of contacts to be supplied ◆ For Inm=250A~1600A	
断开位置 Open position	◆ 一组辅助触头, 提供二对触头 ◆ 适用Inm=63A~225A ◆ 1 sets of auxiliary contacts, but 2 sets of contacts to be supplied ◆ For Inm=63A~225A	
	◆ 二组辅助触头, 提供四对触头 ◆ 适用Inm=250A~1600A ◆ 2 sets of auxiliary contacts, but 4 sets of contacts to be supplied ◆ For Inm=250A~1600A	

适用于DAM1模型 Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
辅助触头系列 Auxiliary contact	125/160FC		250/400FC		800/1600FC	



Alarm contacts series 报警触头系列

报警触头用途:

报警触头用于对断路器负载电流的过载、短路、线路和设备的欠电压故障断开时报警之用。

Alarm contacts application:

The alarm contacts are used for alarm of open action of current, and under voltage of circuit and equipment.

报警触头规格:

1)一常开一常闭

Alarm contacts size:

1)1N/O and 1N/C

报警触头接线图:

Wiring diagram of Alarm contacts;

断路器状态 State of MCCB	报警触头状态 State of alarm contacts	接线图 diagram of wiring
再扣位置 Close position		
脱扣位置 Open position		



适用于DAM1模型 Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
报警触头系列 Alarm contact	125/160BC	250/400BC	800/1600BC			



Auxiliary and alarm contacts series 辅助报警触头系列

辅助报警触头用途:

辅助报警触头用于对断路器的控制回路作自动控制之用, 以及对断路器负载电流的过载、短路、线路和设备的欠电压故障断开时报警之用。

辅助报警触头规格:

- 1)一常开一常闭+1个报警触头
- 2)二常开二常闭+1个报警触头

Auxiliary and alarm contacts application:

The auxiliary contacts are intended for automatical controlling of the auxiliary circuit of MCCB, and of open action of current, and under voltage of circuit and equipment.

Auxiliary and alarm contacts size:

- 1). 1N/O and 1N/C + 1 alarm contacts
- 2). 2N/O and 2N/C + 1 alarm contacts

辅助报警触头接线图

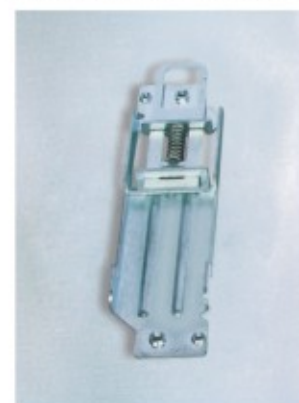
Wiring diagram of Auxiliary and alarm contacts:

断路器状态 State of MCCB	报警触头状态 State of alarm contacts	接线图 diagram of wiring
合闸位置 Close position		
脱扣位置 Open position		

适用于DAM1模型 Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
辅助报警触头系列 Auxiliary and alarm contact	125/160FC+BC	250/400FC+BC	800/1600FC+BC			

标准导轨挂扣装置

Standard Guide rail mounting frame



DAM1(ABB) 1P挂扣
DAM1(ABB) 1P Guide rail
mounting foam



DAM1(ABB)-125 3P挂扣
DAM1(ABB)-125 3P Guide rail
mounting foam



DAM1(ABB)-160 3P挂扣
DAM1(ABB)-160 3P Guide rail
mounting foam

DAB7-63系列小型断路器
DAB7-63 MCB Miniature Circuit Breaker
DAB7-100 MCB小型断路器
DAB7-100 MCB Miniature Circuit Breaker

DAB7附件
DAB7 Accessory
DAB7-125 MCB小型断路器
DAB7-125 MCB Miniature Circuit Breaker

DAB7N-40 MCB小型断路器
DAB7N-40 MCB Miniature Circuit Breaker

DAB7LN-40小型漏电断路器
DAB7LN-40 RCBO Miniature Residual Current Circuit Breaker

DABL-40 / DABL-63 DABF-40 / DABF-63小型漏电断路器
DABL-40/DABL-63RCBO DABF-40/DABF-63RCBO
Miniature Residual Current Circuit Breaker



DAB6-63小型断路器
DAB6-63 MCB Miniature Circuit Breaker

DAB6-100小型断路器
DAB6-100 MCB Miniature Circuit Breaker

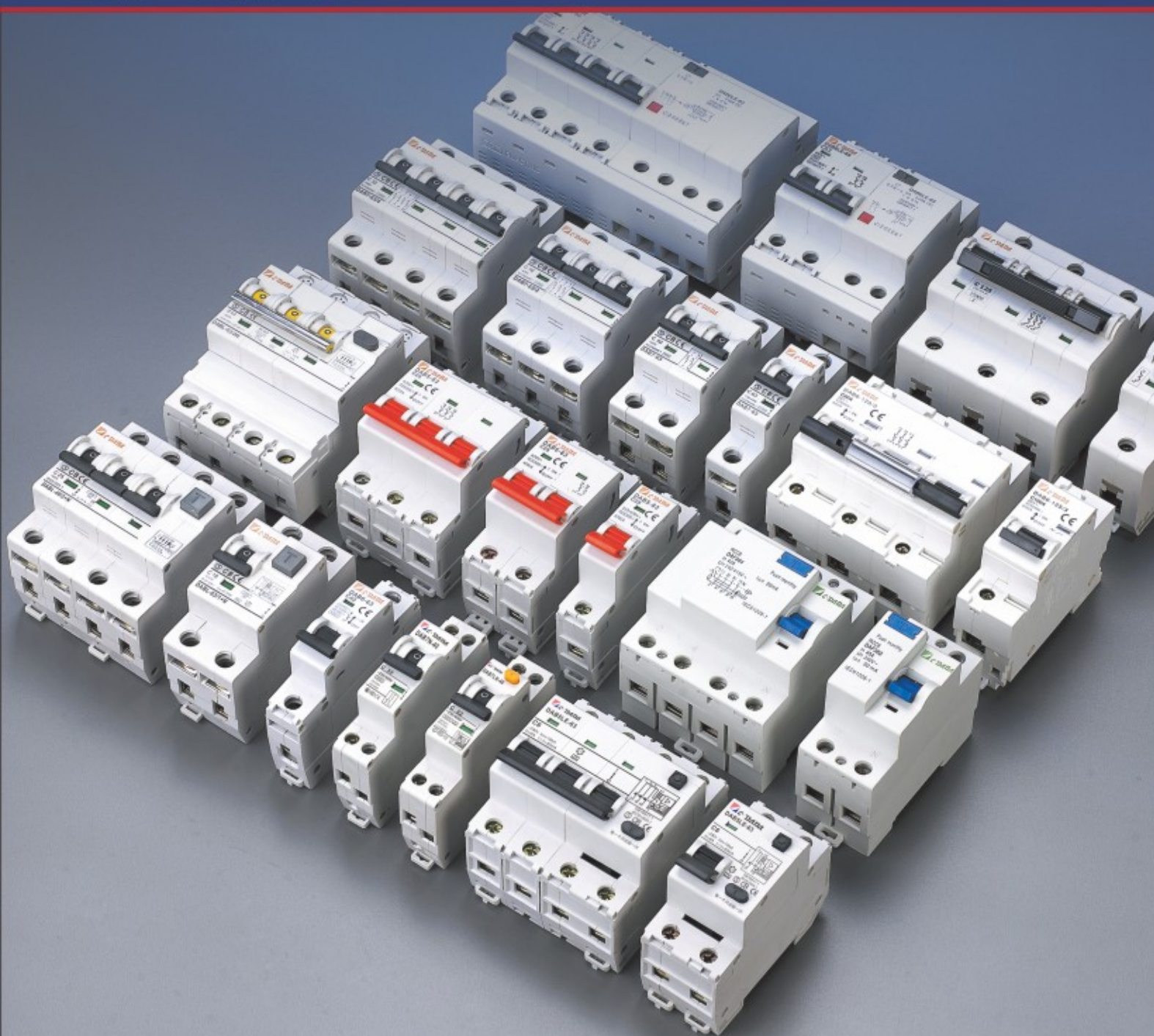
DAB6LE小型漏电断路器
DAB6LE-63RCBO Miniature Residual Current Circuit Breaker

DAB5-63小型断路器
DAB5-63 MCB Miniature Circuit Breaker

DAB5LE-63小型漏电断路器
DAB5LE-63RCBO Miniature Residual Current Circuit Breaker

DABF360-RCCB漏电断路器
DABF360-RCCB Residual Current Circuit Breaker

3
MCB



DAB7-63 MCB Miniature Circuit Breaker DAB7-63系列小型断路器

适用范围

Applicable scope

DAB7-63系列小型断路器符合GB10963, IEC60898标准, 具有性能稳定, 精确保护, 分闸时间短, 分断指标高, 体积小等特点, 广泛用于接触器, 继电器及其它电器设备的过载保护。

DAB7-63 series high break mini circuit breaker(MCB) conforms to GB10963, IEC60898 standard, MCB has the characteristic of reliable performance, precise protective function, short release time, and high break capacity, small volume as well. It widely used in and overload of contactor, switchgear and electric apparatus.



型号及规格

Type and specification



技术参数

Technical parameter

符合标准:	IEC60898, GB10963
额定电压 (Ue):	230V/400V, 50HZ
N型:	6kA
H型:	10kA
选择等级:	3
封闭式防护等级:	IP20 (安装后)
电气寿命:	不少于8000次的开断。
机械寿命:	手动操作不少于20000次的开断。
Conform to standard:	IEC60898, GB10963
Rated voltage (Ue):	230V/400V, 50HZ
Ntype:	6kA
H type:	10kA
Selective grade:	3
Enclosed protection class:	IP20 (Under mounting)
Electrical life:	not less of 8,000 times switching operation
Mechanical life:	not less of 20,000 times switching operation

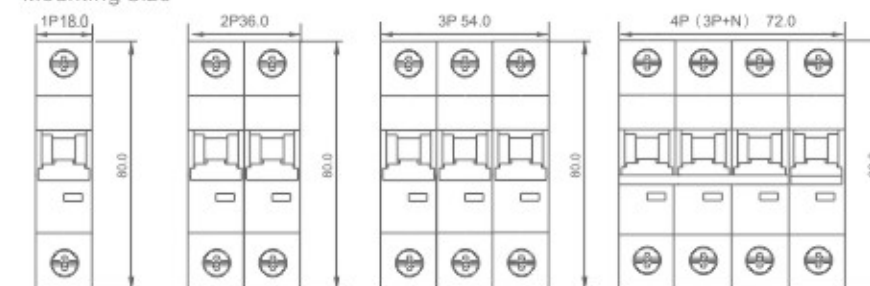
外形尺寸

Outline dimensions

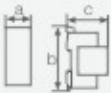
外壳长度:	80mm
外壳高度:	71.5mm
外壳宽度:	18mm 每极 (单极)
安装方式:	采用35mmIEC标准
接线方式:	有两种接线方式, 直接与连接板接线, 或者用铜导线 (软硬皆可) 接线
接线端适用尺寸:	连接板的厚度0.8-2mm 铜导线截面积1-25mm ²
The length of exposed plane:	80mm
Enclosure height:	71.5mm
Enclosure width:	18mm per pole (single pole)
Mounting manner:	Adopt conduct rail of 35mm of IEC standard
Terminal shape:	Two-function terminal can connect with busbar and soft or hard conducting wire
Terminal block capacity:	Conducting wire 1-25mm ² Busbar thickness: 0.8-2mm

安装尺寸

Mounting Size



MCB DAB7-63

常规配电保护 (IEC/EN 60898-1) For protection of general power distribution(IEC/EN 60898-1)						
极数 Poles			1P	2P	3P	4P
电气性能 Electrical performance						
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control			
额定频率 Rated frequency f Hz			50-60Hz			
额定工作电压 Rated working voltage Ue V AC			230/400	400		
额定电流 Rated current In A			6, 10, 16, 20, 25, 32, 40, 50, 63			
额定绝缘电压 Rated insulated voltage Ui V			500			
耐冲击电压 Impulse withstand voltage Uimp kV			4			
瞬时脱扣类型 Instantaneous tripping type		DAB7-63N	B/C/D			
		DAB7-63H	B/C/D			
额定分断能力 Rated short circuit Icn(kA)		DAB7-63N	6			
		DAB7-63H	10			
脱扣类型 Release type			热磁式 Thermal magnetic type			
使用寿命 Service life (O-C)	机械 Mechanical	实际值 Actual value	20000			
		标准值 Standard value	4000			
	电气 Electrical	实际值 Actual value	8000			
		标准值 Standard value	4000			
连接与安装 Connection and installation						
防护等级 Protection degree			IP20			
电线 Wire mm			1-25			
工作温度 Working temperature			-5 ~ +40℃			
阻燃等级 Resistance to humidity and heat			等级2 Class 2			
海拔高度 Altitude above sea			≤2000			
相对湿度 Relative humidity			+20℃, ≤90%; +40℃, ≤50%			
污染等级 Pollution degree			2			
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class			等级 II Class II, 等级 III Class III			
导轨 Mounting			DIN35导轨 DIN35 rail			
可安装附件 Combination with accessories						
辅助触头 Auxiliary contact			✓			
报警触头 Alarm contact			✓			
分励脱扣器 Shunt release			✓			
欠电压脱扣器 Undervoltage release			✓			
辅连报 Auxiliary contact+Alarm contact			✓			
尺寸 Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80	80	80	80
		c	72	72	72	72

脱扣特性类型

Release characteristic type

B型

适用于快速断开的情况, 可通过的最大瞬时电流应小于5倍。

B features

applied to faster release and the circuit breaker have small short current as well as allows through maximum current <5In

D型

适用于更高电流峰值的场所, 最高可达20倍。(例如, 可用于保护变压器的一次回路, 电机的启动等)

D features

were recommended to higher peak current (20In of switch device. For example, it used for protecting transformer one times line, magnetic value and motor start, etc.

C型

适用于大部分的电气回路。可通过的最大瞬时电流在10倍以内。

C features

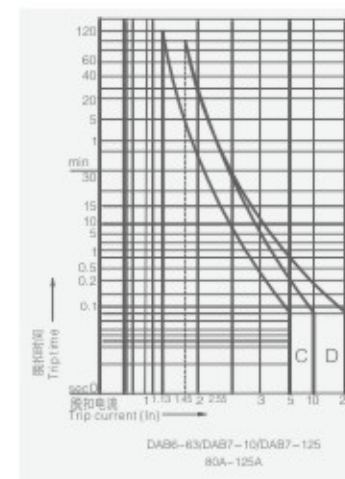
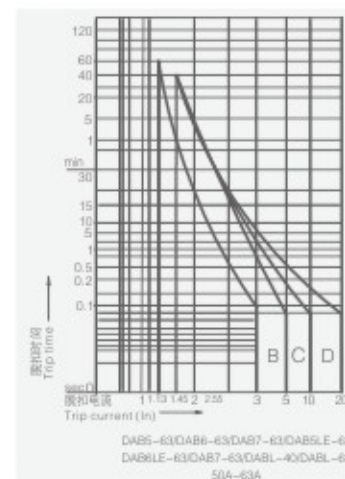
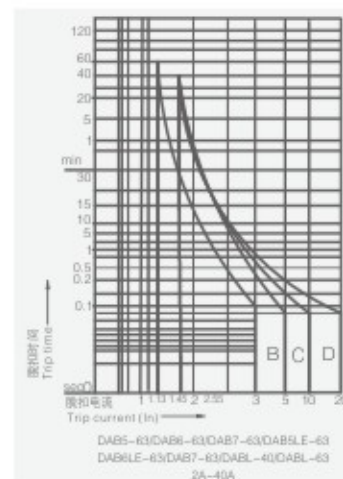
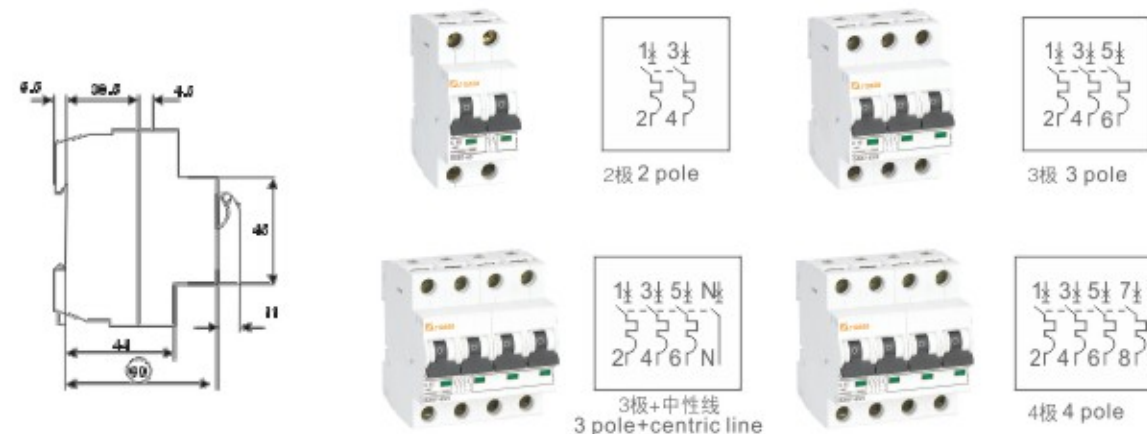
applied to most electric loop, it allows load through higher short time peak current and circuit breaker no operation, but permit through peak current maximum is up to 10 In.

断路器的脱扣特性(表2)

Circuit breaker release characteristic(table2)

(表table 2)

脱扣类型 Trip type	测试项目 Testing project	脱扣曲线 Tripping curve	测试电流 I/In Testing current I/In	状态 Initiative state	时间范围 Trip or no-trip time limit	预期结果 Expected result	环境温度 Ambient temperature +30℃
热脱扣 Thermal trip	a	B C D	1.13In	冷态cold	t≥1h	不脱扣 no-trip	连续测试。电流在5秒内稳步上升到预定值 continue to test current within 5s steadily increase to expected value
	b	B C D	1.45In	继续测试 continue test	t<1h	脱扣 trip	
	c	B C D	2.55In	冷态cold	1S<t<60S (In≤32A) 1S<t<120S (In>32A)	脱扣 trip	
磁脱扣 Magneric trip	d	B	3In	冷态cold	t≥0.1s	不脱扣 no-trip	
		C	5In				
		D	10In				
	e	B	5In	冷态cold	t<0.1s	脱扣 trip	
		C	10In				
		D	20In				



负载能力

Loading capacity

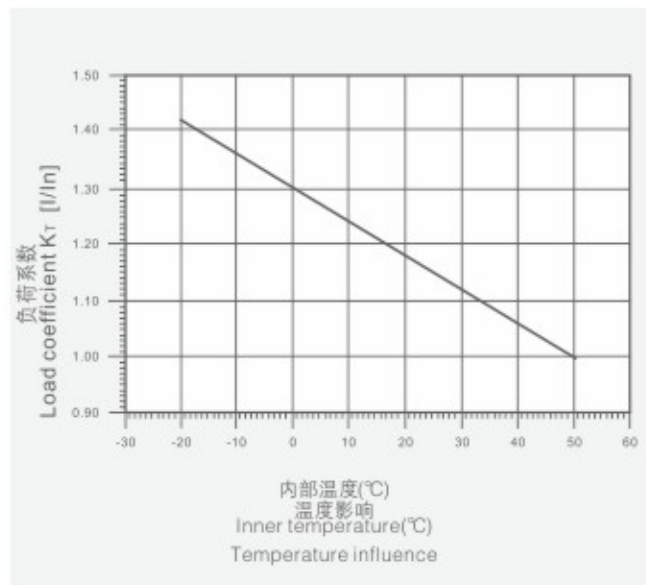
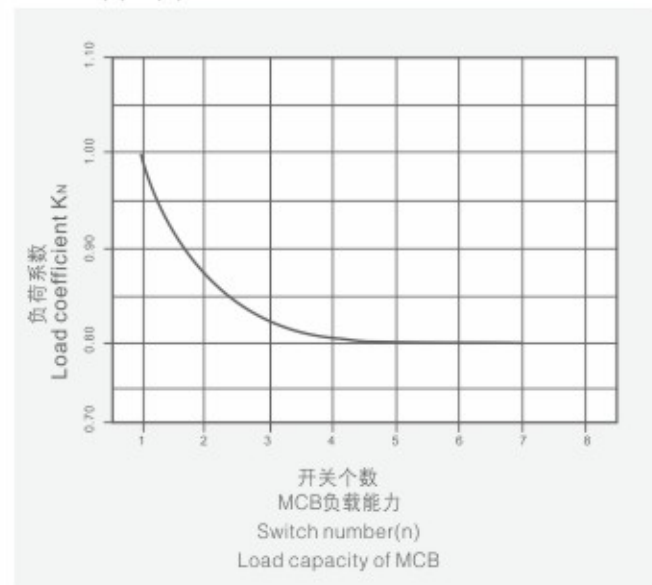
适合 DAB7-63

相对温度下, N个断路器正常工作状态下允许过载负荷能力

Suit for DAB7-63

Relative temperature with n breaker in work state the overload permitted.

$IDL = I_n K(T) K(N)$



能耗

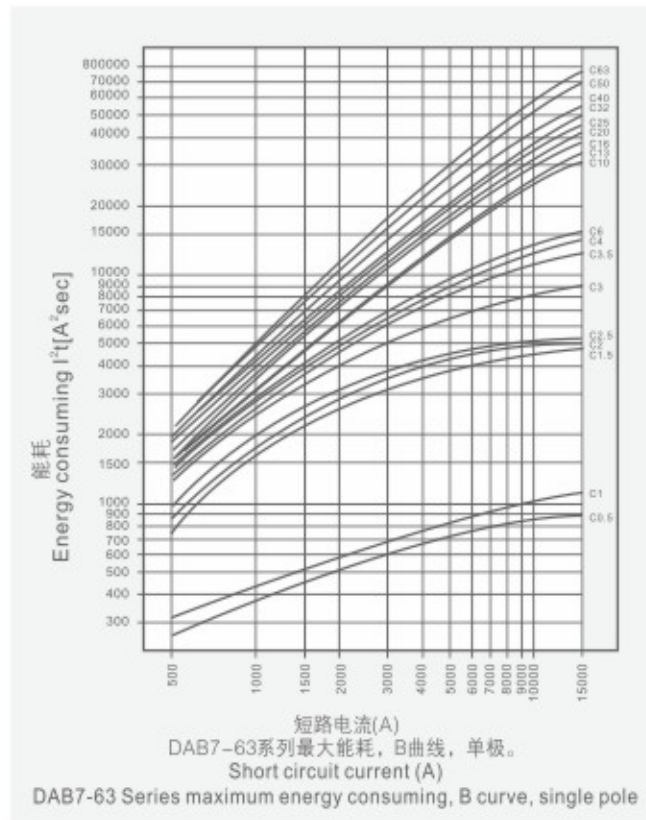
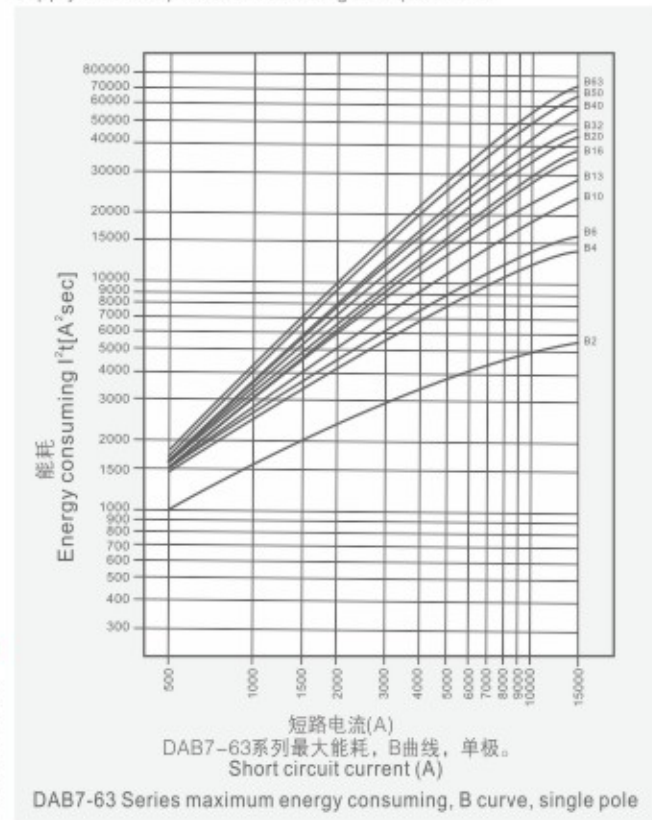
Energy consuming

根据电气标准 EN60898

根据要求提供D曲线的产品

In accordance with electric standard EN60898(IEC898)

Supply D curves products according to requirements



DAB7-100 MCB Miniature Circuit Breaker

DAB7-100 MCB 小型断路器

适用范围

Applicable scope

DAB7-100高分断小型断路器,符合GB10963,IEC60898标准,具有性能稳定,精确保护,分断时间短,分断指标高,体积小等特点,它广泛应用于接触器,继电器等电器设备的过载保护。

DAB7-100 series high break mini circuit breaker(MCB),conforms to GB10963. IEC60898 standard, MCB has the characteristic of reliable performance, precise protective function, short release time, and high break capacity,small volume as well, It widely used in and overload of contactor, switchgear and electric apparatus.

型号及规格

Type and specification

DA B 7 -100

壳架等级额定电流 Casing frame class rated current
设计序号 Design serial number
小型断路器 MCB
公司代码 Company code

技术参数

Technical parameter

符合标准: IEC60898, GB10963
额定电压 (U_e): 230V/400V, 50HZ
额定短路 I_{cn}(kA): 6-63A 10KA, 80-100A 8KA
选择等级: 3
封闭的防护等级: IP20 (安装)
电气寿命: 不少于4000次开关操作
机械寿命: 不少于10000次开关操作

Conform to standard: IEC60898, GB10963
Rated voltage (U_e): 230V/400V, 50HZ
Rated short circuit I_{cn}(kA): 6-63A 10KA, 80-100A 8KA
Selective grade: 3
Enclosed protection class: IP20 (Under mounting)
Electrical life: Not less of 4,000 times switching operation
Mechanical life: Not less of 10,000 times switching operation

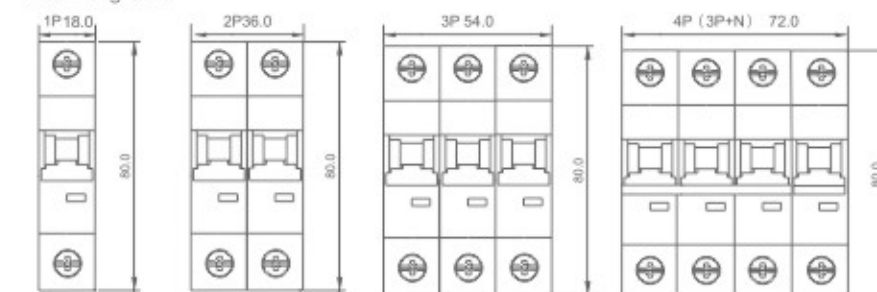
外形尺寸

Outline dimensions

外壳长度: 80mm
外壳高度: 71.5mm
外壳宽度: 外壳18mm宽度单极
安装方式: 采用IEC标准的35mm导轨
接线方式: 有两种接线方式, 直接与连接板接线, 或者用铜导线(软硬皆可)接线
接线端适用尺寸: 连接板的厚度0.8-2mm 铜导线截面积1-35mm²
The length of exposed plane: 80mm
Enclosure height: 71.5mm
Enclosure width: 18mm per pole (single pole)
Mounting manner: Adopt conduct rail of 35mm of IEC standard
Terminal shape: Two-function terminal can connect with busbar and soft or hard conducting wire
Conducting wire 1-35mm²
Terminal block capacity: Busbar thickness: 0.8-2mm

安装尺寸

Mounting Size





DAB7 Accessory DAB7附件

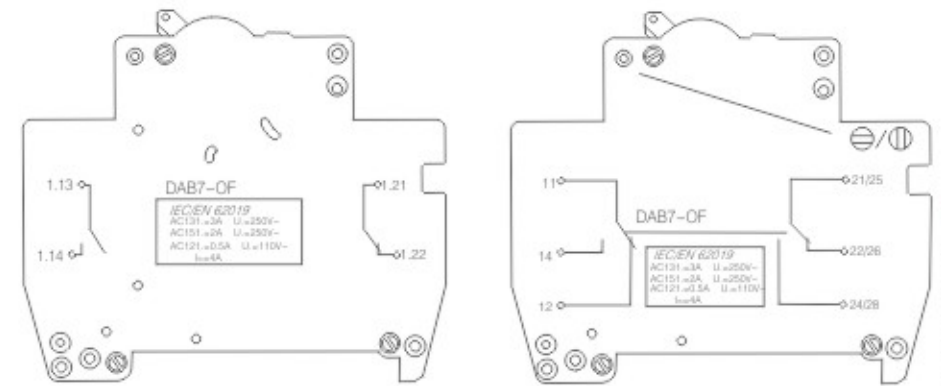
使用范围 Use scope



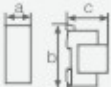
安装与使用 Installation and use

1. 本系列附件只有在结合DAB7(63外壳类)系列断路器时方可使用,不可单独使用。断路器具有以下组合的配件。
断路器+辅助触头 断路器+辅助报警触头 断路器+分励脱扣器 断路器+分励脱扣器+辅助触头
断路器+分励脱扣器+辅助报警触头 断路器+欠压脱扣器
 2. DAB7-63系列小型断路器的四个配件安装在断路器的左边: 用螺丝将DAB7-OF, DAB7-FB和DAB7-QY与断路器固定; 两边用胶布将DAB7-FL与断路器固定, 同时, 用导轨安装。
 3. 断路器和DAB7-OF, DAB7-FB, DAB7-FL, DAB7-QY传动轴之间的机械连接应该灵活并可适当动作。
 4. DAB7-QY安装后, 断路器应该无法关闭, 而只有在按下测试按钮的时候才可以关闭, 关闭后, 断路器应立即断开且松开测试按钮, 这样安装才是正确的。欠压脱扣器应该有额定电压通过。
1. This series accessories can be used only when combining with DAB7(63A enclosure class) series circuit breaker, and are unusable separately. The circuit breaker has the following combinations with the accessories:
Circuit breaker + auxiliary contact;
Circuit breaker + auxiliary alarm contact;
Circuit breaker + shunt release;
Circuit breaker + shunt release + auxiliary contact;
Circuit breaker + shunt release + auxiliary alarm contact;
Circuit breaker + under-voltage release
 2. Four accessories of DAB7-63 series miniature circuit breaker are installed on the left of circuit breaker; DAB7-OF, DAB7-FB and DAB7-QY are fixed with circuit breaker with screws; DAB7-FL is fixed with circuit breaker with double sided adhesive tape, meanwhile, installed with guide rail.
 3. Mechanical connection between circuit breaker and the transmission shaft of DAB7-OF, DAB7-FB, DAB7-FL and DAB7-QY should be flexible and have proper action.
 4. After installation of DAB7-QY, circuit breaker should be unable to close, it could close only when pushing down the test button; after closing, the circuit breaker should break immediately when releasing the test button, then the installation is correct. When running, under-voltage release should have rated voltage flowing through.

产品线 Product line



MCB DAB7-100

常规配电保护(IEC / EN 60898 – 1) For protection of general power distribution (IEC/EN 60898 – 1)						
极数 Poles			1P	2P	3P	4P
电气性能 Electrical performance						
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control			
额定频率 Rated frequency f Hz			50–60Hz			
额定工作电压 Rated working voltage Ue V AC			230/400	400		
额定电流 Rated current In A			6, 10, 16, 20, 25, 32, 40, 50, 63, 80, 100			
额定绝缘电压 Rated insulated voltage Ui V			500			
冲击耐受电压 Impulse withstand voltage Uimp kV			4			
瞬时脱扣型 Instantaneous tripping type		DAB7–100	B/C/D			
额定分断能力 Rated short circuit Icn(kA)		DAB7–100	10kA(6–63A), 8kA(80–100A)			
脱扣类型 Release type			热磁式 Thermal magnetic type			
使用寿命 Service life (O–C)	机械 Mechanical	实际值 Actual value	20000			
		标准值 Standard value	4000			
	电气 Electrical	实际值 Actual value	8000			
		标准值 Standard value	4000			
连接和安装 Connection and installation						
防护等级 Protection degree			IP20			
电线 Wire mm²			1–35			
工作温度 Working temperature			–5 ~ +40℃			
阻燃等级 Resistance to humidity and heat			等级2 Class 2			
海拔高度 Altitude above sea			≤2000			
相对湿度 Relative humidity			+20℃, ≤90%; +40℃, ≤50%			
污染等级 Pollution degree			2			
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class			等级 II Class II, 等级 III Class III			
导轨 Mounting			DIN35导轨 DIN35 rail			
可安装附件 Combination with accessories						
辅助触头 Auxiliary contact			✓			
报警触头 Alarm contact			✓			
分励脱扣器 Shunt release			✓			
欠压脱扣器 Undervoltage release			✓			
辅连报 Auxiliary contact+Alarm contact			✓			
尺寸 Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80	80	80	80
		c	72	72	72	72

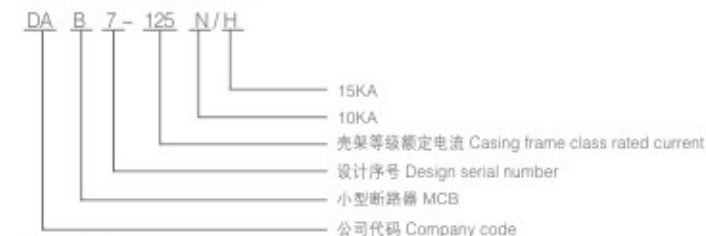
DAB7-125 MCB Miniature Circuit Breaker

DAB7-125 MCB 小型断路器



型号及含义

Type and specification



技术参数

Technical parameter

电气参数	
依照标准:	IEC60947-2
额定电压 (Ue):	230V/400V, 50/60Hz
额定分断能力 Icn:	Ics=10KA; Icu=15KA
额定电流 In:	6 ~ 125A
极数:	1P, 2P, 3P, 4P
机械寿命:	不少于7000次(120次/H)合分闸

Electric parameter	
Innacoedancewith standard:	IEC60947-2
Rated voltage(U _e) :	230V/400V, 50/60HZ
Rated break capacity I _{cn} :	I _{cs} =10KA;I _{cu} =15KA
Rated current I _n :	6 ~125A
pole:	1P, 2P, 3P, 4P
Mechanical life:	No less than 7000 times (120 times /H) on-off action

外形尺寸

Outline dimensions

外壳长度:	90mm
外壳高度:	75.5mm
外壳宽度:	27mm 每极 (单极)
安装方式:	依照IEC标准导轨35mm
端子形式:	提升式接线端子
端子接线能力:	2.5-50mm ²
Shell length:	90mm
Shell height:	75.5mm
Shell width:	27mm per pole (single pole)
Installation form:	In accordance IEC standard 35mm
Terminal shape:	Lift connection terminal
Terminal wiring capacity:	2.5-50mm ²

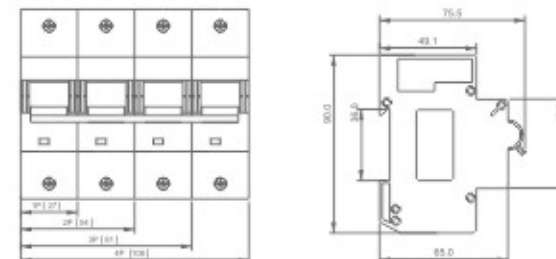
主要特点

Machinery parameter

- 符合最新标准IEC60947-2
 - 结构紧凑且有分合状态指示
 - 极高的分断能力和限流特性
 - 两端双端子适用于母线排和单芯导线
 - 具有专业的配件
-
- Comply with the latest standard IEC60947-2
 - precise structure and contact state breaking instruction
 - highest breakin capacity and current-limit characteristic
 - bilateral two-terminal is suitable to bus-bars and single conductor
 - which is professional accessories

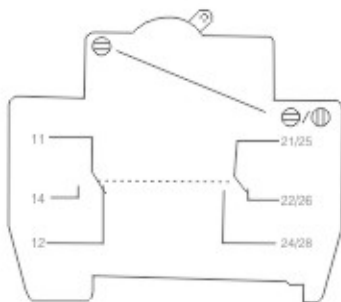
安装尺寸

Mounting Size



DAB7-FB辅助报警触头系列

DAB7-FB auxiliary alarm contactor



它有两组转换触头(如图所示1),当黄色指示灯在“ $\ominus$ ”状态时,两组都是辅助触头。当黄色指示灯在“ $\oplus$ ”状态时,左边是辅助触头,右边是报警触头。

It has two groups of changeover contact (as shown in fig.1), when the yellow indicator is at "⊖", the two groups are auxiliary contacts, when the yellow indicator is at "⊕", the left one is auxiliary contact, the right one is alarm contact.

DAB7-FL 技术参数

DAB7 – FL Technique parameters

DAB7-FL分励脱扣器的额定控制电源电压(U_s)为AC50Hz 24V—110V, 当实际的电流电压在70% U_s —110% U_s 时, 分励脱扣器将动作, 断开断路器。

Rated control source voltage (Us) of DAB7-FL shunt release is AC50Hz and 24V to 110V, 110V to 400V, DC 24V to 60V, 110V to 220V, when the applied current voltage is from 70% Us to 110% Us, the shunt release will act reliably and break the circuit breaker.

DAB7-QY 技术参数

DAB7 – QY Technique parameters

DAB7-QY欠压脱扣器的额定电压(U_e)分别是230V和400V。当实际电压在70% U_e —35% U_e 时,脱扣器将动作并断开断路器。当实际电压低于35% U_e 时,脱扣器将防止断路器关闭。当实际电压在85% U_e —110% U_e 时,脱扣器将保证断路器的关闭。

Rated voltage (U_e) of DAB7-QY under-voltage release is 230V and 400V respectively. When the applied voltage is from 70% U_e to 35% U_e , the release will act and break the circuit breaker, when the applied voltage is lower than 35% U_e , the release will prevent the circuit breaker from closing. When the applied voltage is from 85% U_e to 110% U_e , the release will guarantee closing of circuit breaker.

DAB7-FB技术参数

DAB7-FB technical parameters

使用类别 Use category	Ue (V)	Ie (A)	触头数量 Contact quantity
AC-12	230	2	2组转换触头 2 groups of change over contact
AC-15	230	1	
DC-12	110	0.5	

DAB7技术参数

DAB7 Technique parameters

使用类别 Use category	Ue (V)	Ie (A)	触头数量 Contact quantity
AC-13	230	6	1NO+1NC
	400	2	
DC-13	60	4	
	110	2	
	220	0.5	

Rated current(A)In:20~125A 额定电流20~125A

C特性曲线

C characteristic curve

瞬时特性5~10In

主要适用于商业和民用建筑领域的配电保护

Instantaneous characteristic 5~10In

Mainly used in the protection of commercial and civil construction domain

用于工业、商业和民用等电气线路短路和过载保护

Used in the overload protection due to short circuit of industrial commercial and civil

D特性曲线

D characteristic curve

瞬时特性10~20In

主要适用于工业配电领域

Instantaneous characteristics 10~20In

Mainly used in industrial power domains

断路器脱扣特性表2

Circuit breaker release characteristic(table2)

(表table2)

序号 serial number	脱扣器额定电流(A) release rated current (A)	起始状态 initial state	测试电流 test current		规定时间 set time	预期结果 expected result	备注 memo
1	$I_n \leq 63$	冷态 cold position	$1.05I_n$		$T \leq 1h$	不脱扣 non-release	电流在5S内稳定 上升至规定值 current steadily raise to ratings within 5S
	$I_n > 63$	冷态 cold position	$1.05I_n$		$T \leq 2h$	不脱扣 non-release	
2	$I_n \leq 63$	紧接前项试验后进行 next to former test	$1.3I_n$		$T < 1h$	脱扣 release	
	$I_n > 63$	紧接前项试验后进行 next to former test	$1.3I_n$		$T < 2h$	脱扣 release	
3	$I_n > 63$	冷态 cold position	$5I_n$	$10I_n$	$T > 0.2s$	不脱扣 non-release	$5I_n$ (C型) $10I_n$ (D型)
			$10I_n$	$20I_n$	$T < 0.2s$	脱扣 release	$10I_n$ (C型) $20I_n$ (D型)



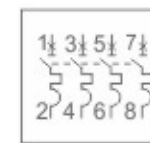
1极 1 pole



3极+中性线
3 pole+centric line



2极 2 pole



4极 4 pole

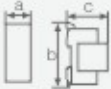


3极 3 pole

MCB DAB7-125

常规配电保护(IEC / EN 60947 - 2)
For protection of general power
distribution(IEC/EN 60947-2)



极数 Poles			1P	2P	3P	4P
电气性能 Electrical performance						
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection,overload protection,isolationg,control			
额定频率 Rated frequency		f Hz	50-60Hz			
额定工作电压 Rated working voltage		Ue V AC	230/400	400		
额定电流 Rated current		In A	6,10,16,20,25,32,40,50,63,80,100,125			
额定绝缘电压 Rated insulated voltage		Ui V	500			
冲击耐受电压 Impulse withstand voltage Uimp		kV	4			
瞬时脱扣型 Instantaneous tripping type		DAB7-125N	B/C/D			
		DAB7-125H	B/C/D			
额定分断能力 Rated short circuit Icn(kA)		DAB7-125N	15			
		DAB7-125H	25 (100-125A 15KA)			
脱扣类型 Release type			热磁式 Thermal magnetic type			
使用寿命 Service life (O-C)	机械 Mechanical	实际值Actual value	8500			
		标准值Standard value	4000			
	电气 Electrical	实际值Actual value	1500			
		标准值Standard value	1000			
连接和安装 Connection and installation						
防护等级 Protection degree			IP20			
电线 Wire mm²			1-35			
工作温度 Working temperature			-5 ~ +40℃			
阻燃等级 Resistance to humidity and heat			等级2 Class 2			
海拔高度 Altitude above sea			≤2000			
相对湿度 Relative humidity			+20℃, ≤90% ;+40℃, ≤50%			
污染等级 Pollution degree			2			
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class			等级Ⅱ Class Ⅱ , 等级Ⅲ Class Ⅲ			
导轨 Mounting			DIN35导轨 DIN35 rail			
尺寸 Dimensions(mm) (WxHxL)		a	27	54	81	108
		b	90	90	90	90
		c	75.5	75.5	75.5	75.5



DAB7N-40 MCB Miniature Circuit Breaker

DAB7N-40 MCB小型断路器

型号及含义

Type and specification



产品概述

Product Description

DAB7N-40系列小型断路器采用1P+N的双断点,两极绝缘且隔离,在同步操作下,N极始终保持先接通,后分断,从而保证了保护极分断电弧的能力,又有效地保护被控制线路和电气设备的安全。

DAB7N-40 series miniature circuit breaker adopts double-break point of 1P+N, the two poles are insulated and isolated from each other, under synchronous operation, N-pole always will make first and break later, which guarantees electric arc breaking capacity of protected pole, also ensures safety of controlled circuits and electric equipment.

技术参数

Technical parameter

电气参数	IEC60898, GB10963
符合的标准:	230V, 50Hz
额定电压(Ue):	6kA
额定分断能力 Icn:	40A
额定电流:	B, C 特性曲线
脱扣特性:	1P+N
极数:	不少于4000次通断动作
电气寿命:	IEC60898, GB10963
Electric parameters	230V, 50Hz
Comply with the standards:	6kA
Rated voltage (Ue):	40A
Rated breaking capacity Icn:	B and C characteristic curve
Rated current:	1P+N
Tripping characteristics:	not less than 4000 times of making and breaking operation
Pole number:	
Electrical life:	

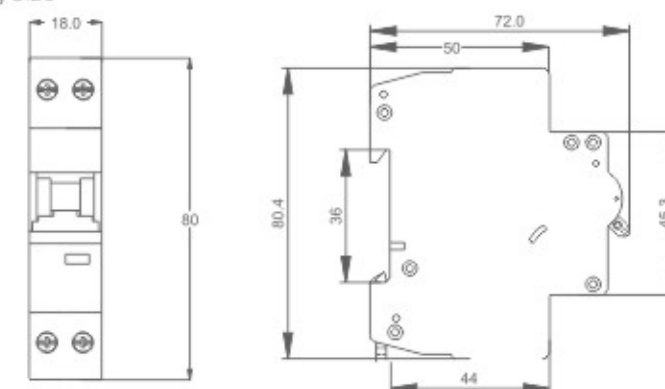
外形尺寸

Outline dimensions

外壳长度:	80毫米
外壳高度:	72毫米
外壳宽度:	18.0毫米(单极)
安装方式:	IEC标准导轨35mm
端子形式:	两用端子可连接母排及导线
端子接线能力:	导线1-10mm ²
Length of exposed surface:	80mm
Height of enclosure:	72mm
Width of enclosure:	18.0mm(single pole)
Mounting means:	IEC standard guide rail of 35mm
Terminal form:	two-purposed terminal can connect the busbar and conductor
Connection capacity of terminal:	conductor of 1-10mm ²

安装尺寸

Mounting Size



DAB7-125 Miniature Circuit Breaker

DAB7-125小型断路器

脱扣特征符合IEC898 (EN60898)B特性曲线:用于照明配电系统

C特性曲线:用于照明配电、插座回路或部分配电系统

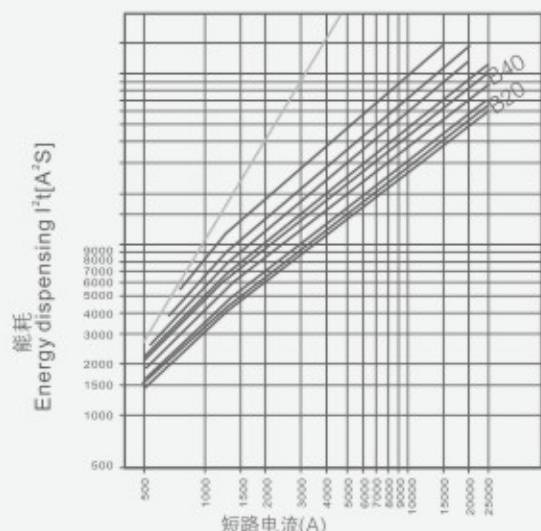
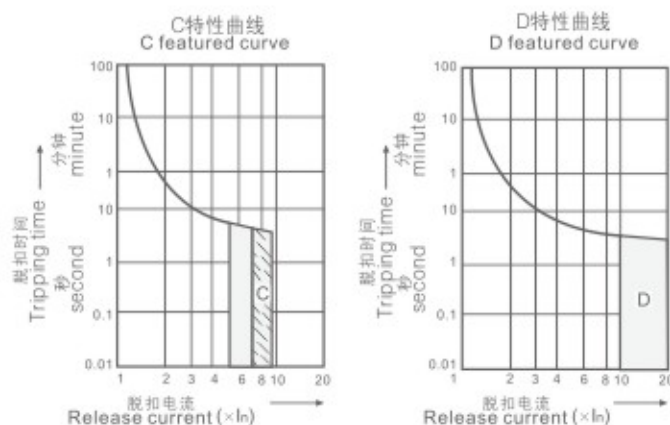
D特性曲线:用于电力或其他强感性负载回路

Release characteristics according to IEC898(EN60898)

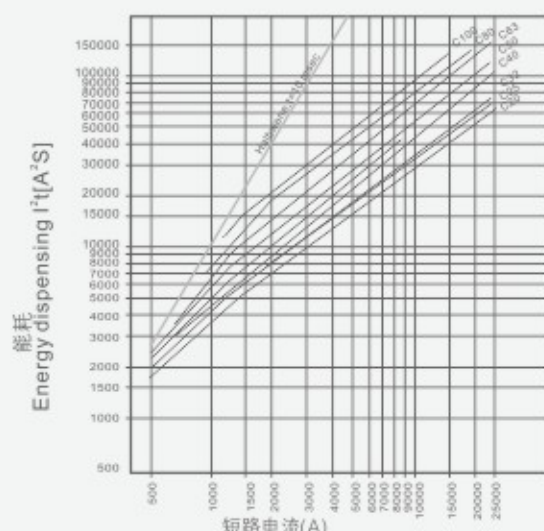
B featured curve:used in lighting power distribution system

C featured curve:used in lighting distribution, socket loop circuit or partial power distribution system

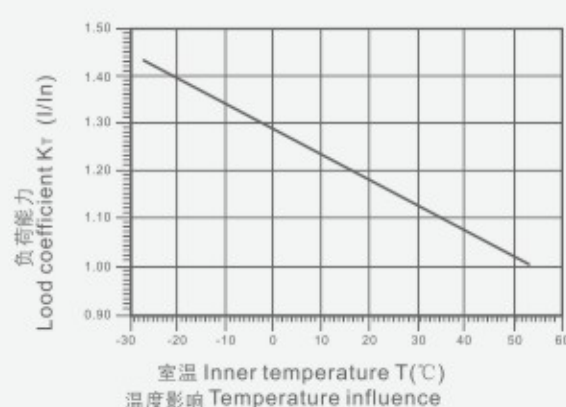
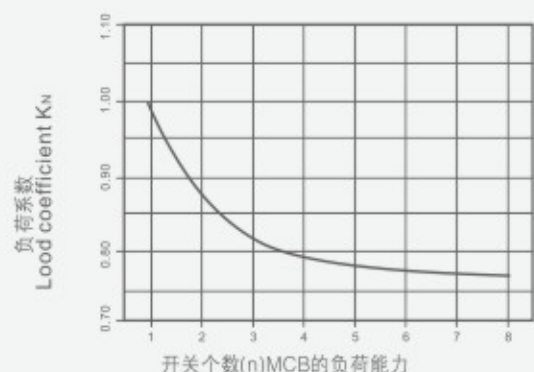
D featured curve:used in power or other intensive conductload loop circuit



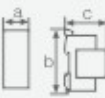
DAB7-125系列最大能耗, B曲线, 单极
Short circuit current (A)



DAB7-125系列最大能耗, C曲线, 单极
Short circuit current (A)



MCB DAB7N-40

常规配电保护(IEC / EN 60898 – 1) For protection of general power distribution (IEC/EN 60898–1)			
极数 Poles			1P+N (18mm)
电气性能 Electrical performance			
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control
额定频率 Rated frequency f Hz			50–60Hz
额定工作电压 Rated working voltage Ue V AC			230
额定电流 Rated current In A			40
额定绝缘电压 Rated insulated voltage Ui V			500
冲击耐受电压 Impulse withstand voltage Uimp kV			4
瞬时脱扣型 Instantaneous tripping type		DAB7N–40	B/C
额定分断能力 Rated short circuit Icn(kA)		DAB7N–40	6
脱扣类型 Release type			热磁式 Thermal magnetic type
使用寿命 Service life (O–C)	机械 Mechanical	实际值 Actual value	12000
		标准值 Standard value	4000
	电气 Electrical	实际值 Actual value	6000
		标准值 Standard value	4000
连接和安装 Connection and installation			
防护等级 Protection degree			Ip20
电线 Wire mm²			1–10
工作温度 Working temperature			–5 – +40℃
阻燃等级 Resistance to humidity and heat			等级2 CLASS 2
海拔高度 Altitude above sea			≤2000
相对湿度 Relative humidity			+20℃, ≤90%; +40℃, ≤50%
污染等级 Pollution degree			2
安装环境 Installation environment			避免明显的冲击和震动 AVOID OBVIOUS SHOCK AND VIBRATION
安装等级 Installation class			等级Ⅱ CLASS Ⅱ, 等级Ⅲ CLASS Ⅲ
导轨 Mounting			DIN35导轨 DIN35 RAIL
可安装附件 Combination with accessories			
辅助触头 Auxiliary contact			✓
报警触头 Alarm contact			✓
分励脱扣器 Shunt release			✓
欠压脱扣器 Under voltage release			✓
辅连报 Auxiliary contact+Alarm contact			✓
尺寸 Dimensions(mm) (WxHxL)			a
			b
			c

DAB7LN-40 RCBO Miniature Residual Current Circuit Breaker
DAB7LN-40小型漏电断路器

型号及含义

Type and specification



产品概述

Product Description

DAB7LN-40系列产品具有体积小、分断能力高(6KA),中性断开等功能,广泛应用于AC50Hz,额定电压230V,额定电流不超过40A的低压电气系统中,保护人体免受电击,保护建筑物和同等要求的电路设备过流或短路。产品还可用于防止因电路电气设备绝缘损坏导致接地电流事故引起的火灾危险。

DAB7LN-40 series The products are featured with small volume, high breaking capacity of 6KA, neutral breaking function, etc. are widely applied to low-voltage electric systems of AC50 HZ, rated voltage of 230V and rated current not exceed 40A, protect the human body against electric shock, and protect the building and similar purposed circuit equipment against over current or short-circuit. The products also can be used to prevent fire danger caused by earth fault current due to the damage of insulation of circuits and electrical equipment.

技术参数

Technical parameter

电气参数	
符合的标准:	IEC61009, GB16917
额定电压 (Ue):	230V, 50Hz
额定分断能力 Icn:	6kA
额定电流:	40A
脱扣特性:	B、C 特性曲线
极数:	1P+N
电气寿命:	不少于4000次通断动作
Electric parameters	
Comply with the standards:	IEC61009, GB16917
Rated voltage (Ue):	230V, 50Hz
Rated breaking capacity Icn:	6kA
Rated current:	40A
Tripping characteristics:	B and C characteristic curve
Pole number:	1P+N
Electrical life:	not less than 4000 times of making and breaking operation

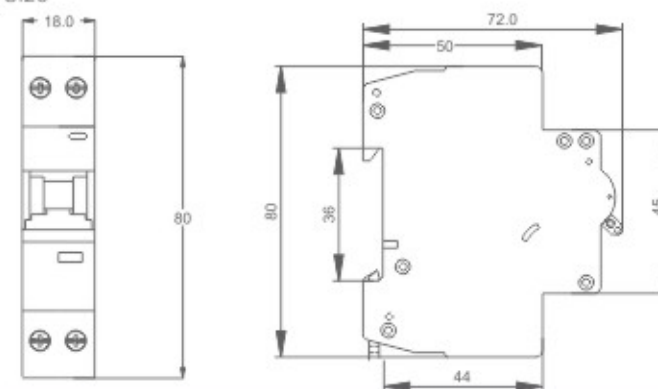
机械参数

Mechanical parameter

外壳长度:	80毫米
外壳高度:	72毫米
外壳宽度:	18.0毫米(单极)
安装方式:	IEC标准导轨35毫米
端子形式:	两用端子可连接母排及导线
端子能力:	导线1-25mm ²
Length of exposed surface:	80mm
Height of enclosure:	72mm
Width of enclosure:	18.0mm(single pole)
Mounting means:	IEC standard guide rail of 35mm
Terminal form:	two-purposed terminal can connect the busbar and conductor
Connection capacity of terminal:	conductor of 1-25mm ²

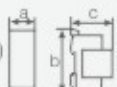
安装尺寸

Mounting Size





RCBO DAB7LN-40

常规配电保护(IEC / EN 61009 – 1) For protection of general power distribution (IEC/EN 61009–1)			
极数 Poles			1P+N (18mm)
电气性能 Electrical performance			
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control
额定频率 Rated frequency		f Hz	50–60Hz
额定工作电压 Rated working voltage		Ue V AC	230
额定电流 Rated current		In A	40
Rated residual current		IΔn mA	10,30,100
额定绝缘电压 Rated insulated voltage		Ui V	500
冲击耐受电压 Impulse withstand voltage Uimp		kV	4
瞬时脱扣型 Instantaneous tripping type		DAB7LN–40	B/C
额定分断能力 Rated short circuit Icn(kA)		DAB7LN–40	6
脱扣类型 Release type			热磁式 Thermal magnetic type
使用寿命 Service life (O–C)	机械 Mechanical	实际值 Actual value	12000
		标准值 Standard value	4000
	电气 Electrical	实际值 Actual value	6000
		标准值 Standard value	4000
连接和安装 Connection and installation			
防护等级 Protection degree			IP20
电线 Wire		mm²	1–10
工作温度 Working temperature			–5 ~ +40℃
阻燃等级 Resistance to humidity and heat			等级2 CLASS 2
海拔高度 Altitude above sea			≤2000
相对湿度 Relative humidity			+20℃, ≤90%; +40℃, ≤50%
污染等级 Pollution degree			2
安装环境 Installation environment			避免明显的冲击和震动 AVOID OBVIOUS SHOCK AND VIBRATION
安装等级 Installation class			等级Ⅱ CLASS Ⅱ, 等级Ⅲ CLASS Ⅲ
导轨 Mounting			DIN35导轨 DIN35 RAIL
可安装附件 Combination with accessories			
辅助触头 Auxiliary contact			✓
报警触头 Alarm contact			✓
分励脱扣器 Shunt release			✓
欠压脱扣器 Under voltage release			✓
辅连报 Auxiliary contact+Alarm contact			✓
尺寸 Dimensions(mm) (WxHxL)			a
			b
			c



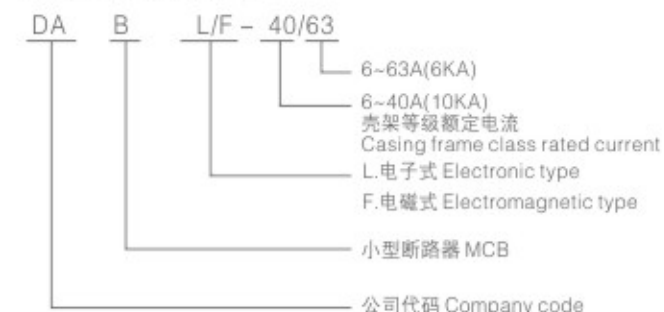
DABL-40/DABL-63RCBO DABF-40/DABF-63RCBO Miniature Residual Current Circuit Breaker

DABL-40 / DABL - 63 DABF-40 / DABF - 63小型漏电断路器



型号及含义

Type and specification



注意事项

Notice Matters

1. 断路器应根据标记的两级接线, 电源的正负极性应该是绝对正确的。
2. 断路器的电源输入终端是 "1" (1p) 或 "1、3" (2p), 负载终端是 "2" (1p) 或 "2" (正负极负载), 4(负负载)(2p), 切勿接线错误。

1. The circuit breaker should be wired according to the polarity marks, the positive and negative polarities of power supply should be absolutely proper.
2. Power incoming terminal of circuit breaker is "1" (1P) or "1,3" (2P), load terminal is "2" (1P) or "2" (positive end of load), 4 (negative end of load)(2P), don't make wrong connection.

买家须知

Order guidelines

下单时, 请确认断路器型号, 额定电流, 脱扣类型, 极数和数量。例如: 如需订购DAB7-63/DC小型直流断路器, 额定电流为63A, 脱扣类型是C, 两极, C型40A, 100只, 那可以表述为: JAB7-63/DC/2-C40 100pcs。

When placing an order, please give clear indications on model, rated current value, tripping type, pole number and quantity of circuit breaker e.g: DAB7-63/DC miniature direct-current circuit breaker, rated current is 63A, tripping type is C, two-pole, C type 40A, 100 pieces, then it can be expressed as: JAB7-63/DC/2-C40 100pcs.

产品概述

Product Description

DABL-40系列小型断路器是在借鉴国外先进技术的基础上由本公司自行研发的一款新产品。符合标准GB16917.1和IEC61009-1。产品具有体积小、分断能力高10kA, 中性开断等功能, 广泛应用于AC 50赫兹, 额定电压230V, 额定电流不超过63A的低压电气系统中, 保护人体免受电击, 保护建筑物和同等要求的电路设备过载或短路。产品还可用于防止因电路电气设备绝缘损坏导致接地电流事故引起的火灾危险。本产品还具有更多电流范围选择, 最高63A可以替代两极拼板产品, 从而节省空间。

DABL-40 series miniature circuit breaker is a new type product researched and developed by our company dependently on the basis of absorbing overseas advanced technologies. It complies with the standards GB16917.1 and IEC61009-1. The products are featured with small volume, high breaking capacity of 10KA, neutral breaking function, etc, are widely applied to low-voltage electric systems of AC50 Hz, rated voltage of 230V and rated current not exceed 63A, protect the human body against electric shock, and protect the building and similar purposed circuit equipment against overcurrent or short-circuit. The products also can be used to prevent fire danger caused by earthing fault current due to the damage of insulation of circuits and electrical equipment. The product also has wide current range, up to 63A is available, instead of two-pole and medley pole products, saves space.

电气参数

Electric parameter

符合标准:	IEC61009 (En61009) GB16917.1
灵敏度:	A型 AC型
脱扣时间:	最少10ms 延时
额定电压(Ue):	230V/400V, 50Hz
额定电流 In:	6-63A
脱扣特性:	B, C, D特性曲线
外壳防护等级:	IP20 (安装后)
额定分断能力I _{cn} :	10kA(DABL-40), 6kA(DABL-63)
额定剩余动作电流:	10mA 30mA, 50mA 100mA, 300mA
最大可连上的熔断器:	100AgL (> 10KA)
抗环境力:	按照IEC10081L标准
总寿命:	18000次通断动作
电气寿命:	不少于6000次通断
机械寿命:	不少于12000次通断

In accordance With standard:	IEC61009 (En61009) GB16917.1
Sensitivity:	A type AC type
Release time:	min 10ms drang time
Rated voltage(Ue):	230V/400V, 50Hz
Rated current In:	6-63A
Release features:	B, C, D features curves
Shell protection grade:	IP20(After instaiation)
Rated break capacity I _{cn} :	10kA(DABL-40), 6kA(DABL-63)
Rated residual action current:	10mA 30mA, 50mA 100mA, 300mA
Maximum available fuse:	100AgL (> 10KA)
Climatic conditions resistance:	Accordfng to IEC1008 in L standard
Total life:	18000 times of operation
Electrical life:	No less than 6000 times on-off action
Mechanical life:	No less than 12000 times on-off action

主要特点

Machinery parameter

- 极高分断能力10kA
- 结构紧凑, 体积小(2个模数宽)
- 具有中线开断功能, 更安全可靠
- 双功能接线端子, 接线能力强
- 具有触头状态指示器, 便于识别触头接触情况
- 可做到63A, 更多电流选择
- 可与多种附件配合, 并可带过压保护
- High break capacity 10kA
- Compact configuration, small size(2 standard dimensions)
- Centric line off capacity, more safe and reliable
- Dual function connection terminal, Well connected
- Contacts condition indicator easy to identify contact information
- Up to 63A is available, wider current range
- Matchable with many kinds of accessories, can be equipped with over-voltage protection



RCBO DABF-40/63

常规配电保护(IEC / EN 61009-1) For protection of general power distribution (IEC/EN 61009-1)					
极数 Poles of number		1P+N / 2P	3P+N / 4P	2P	3P+N / 4P
电气性能 Electrical performance		电磁式 Magnetic type			
额定电流 Rated current	In A	6-32A / 40-63A	6-25A / 32-40A	6-63A	6-63A
脱扣类型 Release type		电磁式 Magnetic type			
功能 Functions		短路、漏电、过载、过压、隔离保护 Protection against short circuit, leakage, overload, over voltage, isolation			
剩余电流类型 Type of residual current		AC and A			
额定频率 Rated frequency	f Hz	50-60Hz			
额定工作电压 Rated working voltage	Ue V AC	230/400			
额定剩余电流 Rated residual current	I Δ n mA	10,30,100,300			
绝缘电压 Insulation voltage	Ui	500V			
额定冲击耐受电压 Rated impulse withstand voltage	Uimp	6KV			
瞬时脱扣型 Instantaneous tripping type		B/C/D			
额定分断能力 Rated short circuit Icn(kA)		6			
使用寿命 Service life (O-C)	机械 Mechanical	12000			
	电气 Electrical	6000			
连接和安装 Connection and installation					
防护等级 Protection degree		IP20			
电线 Wire		mm ² 1-25			
工作温度 Working temperature (with daily average $\leq 35^{\circ}\text{C}$)		-5 ~ +40 $^{\circ}\text{C}$			
阻燃等级 Resistance to humidity and heat		V-0			
海拔高度 Altitude above sea		≤ 2000			
相对湿度 Relative humidity		+20 $^{\circ}\text{C}$, $\leq 90\%$; +40 $^{\circ}\text{C}$, $\leq 50\%$			
污染等级 Pollution degree		2			
安装环境 Installation environment		避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class		等级 II Class II, 等级 III Class III			
可安装附件 Combination with accessories					
辅助触头 Auxiliary contact		Yes	Yes	Yes	Yes
报警触头 Alarm contact		Yes	Yes	Yes	Yes
辅连报警触头 ALT+AUX		Yes	Yes	Yes	Yes
分励脱扣器 Shunt release		Yes	Yes	Yes	Yes
欠压脱扣器 Under voltage release		-	-	-	-
过压脱扣 Over voltage release		-	-	-	-
尺寸 Dimensions (mm) (WxHxL)	a	36/54	72/90	54	72/90
	b	80.4	80.4	106	106
	c	72	72	72	72



RCBO DABL-40/63

常规配电保护(IEC / EN 61009-1) For protection of general power distribution (IEC/EN 61009-1)					
极数 Poles of number		1P+N / 2P	3P+N / 4P	2P	3P+N / 4P
电气性能 Electrical performance		电子式 Electronic type			
额定电流 Rated current	In A	6-63A	6-32A	6-63A	6-63A
脱扣类型 Release type		电子式 Electronic type			
功能 Functions		短路、漏电、过载、过压、隔离保护 Protection against short circuit, leakage, overload, over voltage, isolation			
剩余电流类型 Type of residual current		AC and A			
额定频率 Rated frequency	f Hz	50-60Hz			
额定工作电压 Rated working voltage	Ue V AC	230/400			
额定剩余电流 Rated residual current	I Δ n mA	10,30,100,300			
绝缘电压 Insulation voltage	Ui	500V			
额定冲击耐受电压 Rated impulse withstand voltage	Uimp	6KV			
瞬时脱扣型 Instantaneous tripping type		B/C/D			
额定分断能力 Rated short circuit Icn(kA)		DABL-40 10KA, DABL-63 6KA			
使用寿命 Service life (O-C)	机械 Mechanical	12000			
	电气 Electrical	6000			
连接和安装 Connection and installation					
防护等级 Protection degree		IP20			
电线 Wire		mm ² 1-25			
工作温度 Working temperature (with daily average $\leq 35^{\circ}\text{C}$)		-5 ~ +40 $^{\circ}\text{C}$			
阻燃等级 Resistance to humidity and heat		等级2 Class 2			
海拔高度 Altitude above sea		≤ 2000			
相对湿度 Relative humidity		+20 $^{\circ}\text{C}$, $\leq 90\%$; +40 $^{\circ}\text{C}$, $\leq 50\%$			
污染等级 Pollution degree		2			
安装环境 Installation environment		避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class		等级 II Class II, 等级 III Class III			
可安装附件 Combination with accessories					
辅助触头 Auxiliary contact		√	√	√	√
报警触头 Alarm contact		√	√	√	√
辅连报警触头 ALT+AUX		√	√	√	√
分励脱扣器 Shunt release		√	√	√	√
欠压脱扣器 Under voltage release		-	-	-	-
过压脱扣 Over voltage release		√	√	√	√
尺寸 Dimensions (mm) (WxHxL)	a	36 / 54	72 / 90	54	72 / 90
	b	80.4	80.4	95	95
	c	72	72	72	72



DAB6-63 MCB Miniature Circuit Breaker

DAB6-63小断路器

型号及含义

Type and specification



技术参数

Technical parameter

符合电气标准: IEC60898-1, GB/T10963.1
 额定电压(Ue): 230V/400V, 50HZ
 额定短路 Icn(kA): 6KA(2-40A), 4.5KA(50-63A)

电气寿命: 不少于8000次通断动作
 机械寿命: 不少于20000次通断动作

Conform to standard: IEC60898-1, GB/T10963.1
 Rated voltage(Ue): 230V/400V, 50HZ
 Rated short circuit Icn(kA): 6KA(2-40A), 4.5KA(50-63A)

Electrical life: not less of 8,000 times switching operation
 Mechanical life: not less of 20,000 times switching operation

外形尺寸

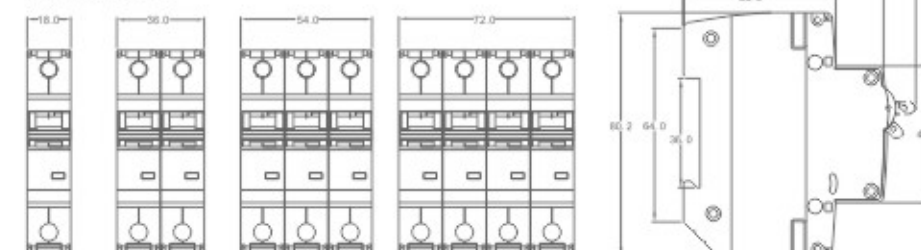
Outline dimensions

外壳长度: 81毫米
 外壳高度: 76.5毫米
 外壳宽度: 18mm 每极 (单极)
 安装方式: 采用IEC标准导轨35毫米
 端子接线能力: 导线1-25mm²

The length of exposed plane: 81mm
 Enclosure height: 76.5mm
 Enclosure width: 18mm per pole (single pole)
 Mounting manner: Adopt conduct rail of 35mm of IEC standard
 Terminal shape: Two-function terminal can connect with busbar and soft of hard conducting wire
 Terminal block capacity: Conducting wire 1-25mm²

安装尺寸

Mounting Size

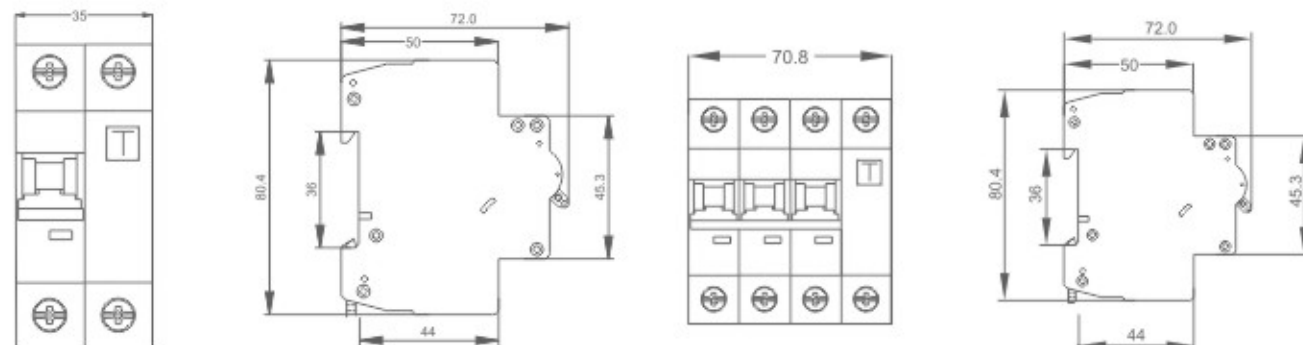


Mounting size

安装尺寸

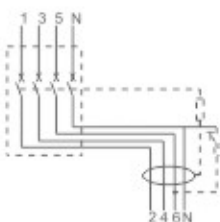
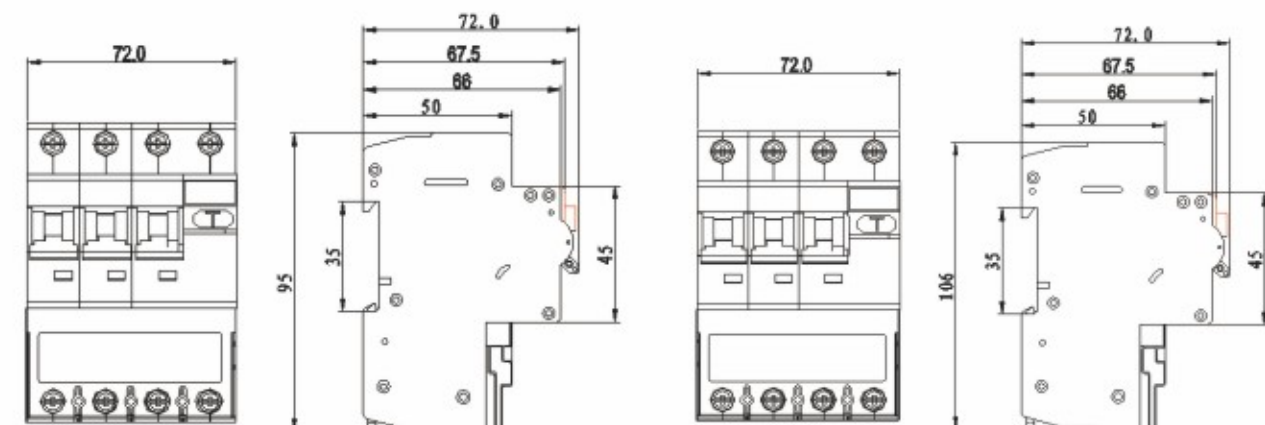
DABL(F)-40/63 1P+N

DABL-40/63 3P+N In≤32A



DABL-63 In≤63A 3P+N

DABF-63 In≤63A 3P+N



断路器脱扣特性

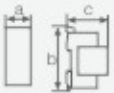
Circuit breaker release characteristic

表2 table 2

测试类型 Testing type	IΔn(mA)	In(mA)	最大剩余电流断路时间 Maximum Residual current breaking time S				
			IΔn	2IΔn	5IΔn	10IΔn	
接通试验 On-off test load test	30	任何值 Any value	0.3	0.15	0.04	0.04	延时型最小不驱动 时间0.04 delay-time type Minimum non- actuating time 0.04
接通试验 On-off test load test	30	任何值 Any value	0.3	0.15	0.04	0.04	

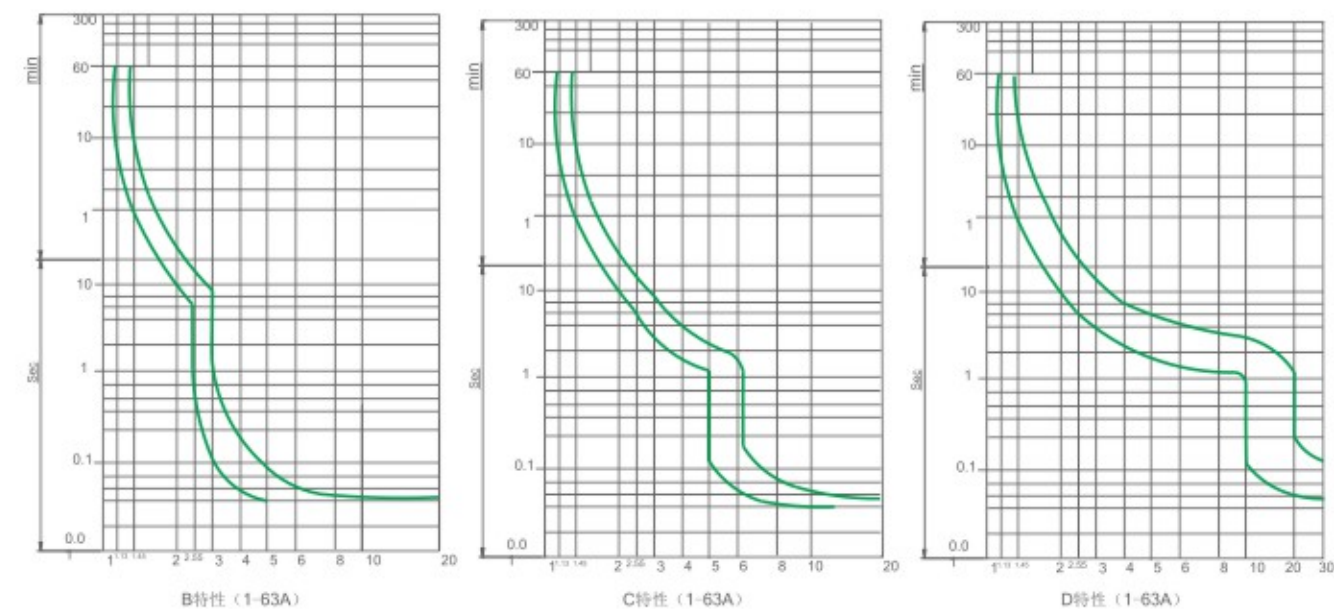
备注: IΔn≤30mA的漏电断路器用0.25A代替5IΔn
 Note: For IΔn≤30mA RCBO use 0.25A instead of 5IΔn

MCB DAB6-63

常规配电保护(IEC / EN 60898 – 1) For protection of general power distribution (IEC/EN 60898–1)						
极数 Poles			1P	2P	3P	4P
电气性能 Electrical performance						
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control			
额定频率 Rated frequency f Hz			50–60Hz			
额定工作电压 Rated working voltage Ue V AC			230/400	400		
额定电流 Rated current In A			2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63			
额定绝缘电压 Rated insulated voltage Ui V			500			
冲击耐受电压 Impulse withstand voltage Uimp kV			4			
瞬时脱扣型 Instantaneous tripping type		DAB6–63	B/C/D			
额定分断能力 Rated short circuit Icn(kA)		DAB6–63	Icn= Ics= 6000A (DAB6S-63, In= 6-40A for 1P, 2P, 3P, 4P) Icn= Ics= 4500A (DAB6S-63, In=50-63A for 1P, 2P, 3P, 4P) Icn= Ics= 4500A (DAB6-63, In=6-63A)			
脱扣类型 Release type			热磁式 Thermal magnetic type			
使用寿命 Service life (O~C)	机械 Mechanical	实际值 Actual value	20000			
		标准值 Standard value	4000			
	电气 Electrical	实际值 Actual value	8000			
		标准值 Standard value	4000			
连接和安装 Connection and installation						
防护等级 Protection degree			IP20			
电线 Wire mm			1–25			
工作温度 Working temperature			–5 ~ +40℃			
阻燃等级 Resistance to humidity and heat			等级2 Class 2			
海拔高度 Altitude above sea			≤2000			
相对湿度 Relative humidity			+20℃, ≤90% ; +40℃, ≤50%			
污染等级 Pollution degree			2			
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class			等级 II Class II , 等级 III Class III			
导轨 Mounting			DIN35导轨 DIN35 rail			
可安装附件 Combination with accessories						
辅助触头 Auxiliary contact			✓			
报警触头 Alarm contact			✓			
分励脱扣器 Shunt release			✓			
欠压脱扣器 Under voltage release			✓			
辅连接 Auxiliary contact+Alarm contact			✓			
尺寸 Dimensions(mm) (WxHxL)		a	17.5	35	52.5	70
		b	80.2	80.2	80.2	80.2
		c	76.5	76.5	76.5	76.5

断路器的每极功耗

额定电流 In (A)	每级最大功耗 (W)
2-6	2
16-32	3.5
40-63	5

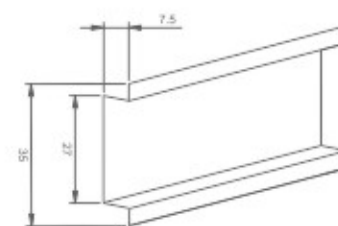


断路器脱扣特征类型和应用范围(表1)

1. Circuit breaker release characteristic type and application scope (table 1)

表1 (table 1)

脱扣特性 Release characteristic	描述 description	应用范围 Application scope
B	B特性用于需要较快速度脱扣且短路电流不是很大的小型断路器的适用场合。允许通过的峰值电流 < 5 In。 B features applied to faster release and the circuit breaker have small short current as well as allow through maximum current < 5In	变压器二次线路的保护 For protecting of transformer secondary line
C	C特性适用于大部分的电气回路, 它允许负载通过较高的短时峰值电流而断路器不动作, 可允许通过的峰值电流最大 < 10In。 C features applied to most electric loop, it allows load through higher short time peak current and circuit breaker no operation, but permit through peak current maximum is up to < 10In.	一般电气回路的保护 For protecting of common electric loop.
D	D特性被推荐用于很高的峰值电流(20In)的开关设备。例如, 用于变压器的一次线路和电磁阀、电机启动等的保护。 D features were recommended to higher peak current (20In of switch device. For example, it used for protecting transformer one times line, magnetic valve and motor start, etc.	变压器一次线路的保护 For protecting one times line

安装导轨
Mounting conduct rail

DAB6-100MCB Miniature Circuit Breaker

DAB6-100小型断路器

型号及含义

Type and specification

DA B 6 - 100

壳架等级额定电流 Frame size rated current

设计序号 Design Number

小型断路器 MCB

公司代码 Company code



技术参数

Technical parameter

3.11 断路器额定电流:63A,80A,100A

3.12 断路器极数分为:一极、两极、三极、四极

3.11 circuit breaker rated current:63A,80A,100A,

3.12 pole circuit breaker is divided into:one pole,two pole,three pole and four pole

技术参数

Technical parameter

电气参数

符合标准:

额定电压(Ue):

额定分断能力 Icn:

额定电流:

脱扣特性:

极数:

使用寿命:

IEC60898

230V/400V,50Hz

6/10kA

16A,25A,32A,40A,50A,63A,80A,100A

B,C,D特性曲线

1P,2P,3P,4P

不少于10000次通断动作

Electric parameters

Comply with the standards:

Rated voltage(Ue):

Rated breaking capacity Icn:

Rated current:

Tripping characteristics:

Pole number:

Service life:

IEC60898

230V/400V,50Hz

6/10kA

16A,25A,32A,40A,50A,63A,80A,100A

B,C and D characteristic curve

1P,2P,3P,4P

not less than 10000 times of making and breaking operation

外形尺寸

Outline dimensions

外壳长度:

外壳高度:

外壳宽度:

安装方式:

端子形式:

80毫米

72毫米

27.0毫米(单极)

IEC标准导轨35毫米

两用端子可连接母排及导线

Length of exposed surface:

Height of enclosure:

Width of enclosure:

Mounting means:

Terminal form:

80mm

72mm

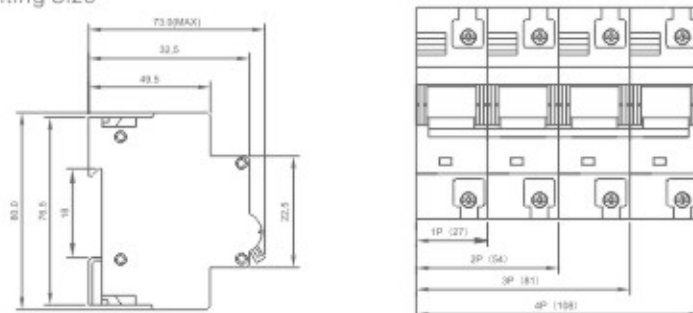
27.0mm(single pole)

IEC standard guide rail of 35mm

two-purposed terminal can connect the busbar and conductor

安装尺寸

Mounting Size



MCB DAB6-100

常规配电保护(IEC / EN 60898 - 1)

For protection of general power distribution(IEC/EN 60898-1)

极数 Poles

1P

2P

3P

4P

电气性能 Electrical performance

功能 Functions

短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control

额定频率 Rated frequency f Hz

50-60Hz

额定工作电压 Rated working voltage Ue V AC

230/400

400

额定电流 Rated current In A

63,80,100

额定绝缘电压 Rated insulated voltage Ui V

500

冲击耐受电压 Impulse withstand voltage Uimp kV

4

瞬时脱扣型
Instantaneous tripping type

DAB6-100

B/C/D

额定分断能力
Rated short circuit Icn(kA)

DAB6-100

10KA(16-63A), 6KA(80-100A)

脱扣类型 Release type

热磁式 Thermal magnetic type

使用寿命
Service life
(O-C)

机械
Mechanical
实际值 Actual value
标准值 Standard value
电气
Electrical
实际值 Actual value
标准值 Standard value

8500
4000
1500
1000

连接和安装 Connection and installation

防护等级 Protection degree

IP20

电线 Wire mm²

1-35

工作温度 Working temperature

-5 ~ +40°C

阻燃等级 Resistance to humidity and heat

等级2 Class 2

海拔高度 Altitude above sea

≤2000

相对湿度 Relative humidity

+20°C, ≤90%; +40°C, ≤50%

污染等级 Pollution degree

2

安装环境 Installation environment

避免明显的冲击和震动 Avoid obvious shock and vibration

安装等级 Installation class

等级 II Class II, 等级 III Class III

导轨 Mounting

DIN35导轨 DIN35 rail

尺寸 Dimensions(mm) (WxHxL)	a	b	c	a	b	c
	27	80	73	54	80	73
	81	80	73	108	80	73

DAB5-63MCB Miniature Circuit Breaker

DAB5-63 小型断路器

型号及含义

Type and specification



技术参数

Technical parameter

符合标准: IEC60898, GB10963
额定电压(Ue): 230V/400V, 50HZ
N型: 4.5KA(2-40A), 3.5KA(50-63A)
H型: 6KA(2-40A), 4.5KA(50-63A)
额定分断能力 Icn: 4.5/6KA
电气寿命: 不少于8000次通断动作
机械寿命: 不少于20000次通断动作

Conform to standard: IEC60898, GB10963
Rated voltage(Ue): 230V/400V, 50HZ
N type: 4.5KA(2-40A), 3.5KA(50-63A)
H type: 6KA(2-40A), 4.5KA(50-63A)
Rated breaking capacity Icn: 4.5/6KA
Electrical life: not less of 8,000 times switching operation
Mechanical life: not less of 20,000 times switching operation

外形尺寸

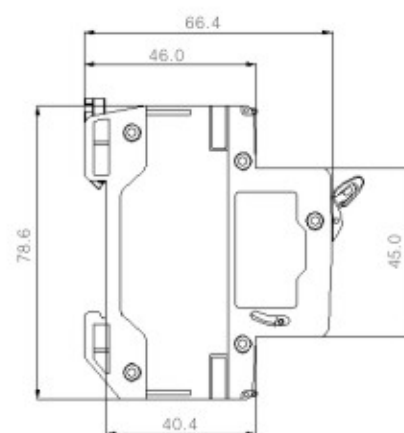
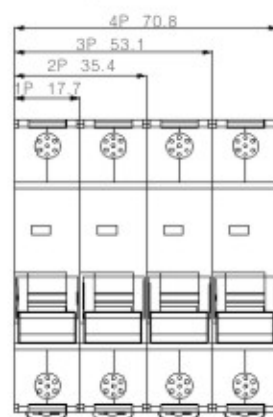
Outline dimensions

外壳长度: 81毫米
外壳高度: 72毫米
外壳宽度: 18毫米(单极)
安装方式: 采用IEC标准导轨35毫米
端子形式: 导线1-25mm 母线厚度: 0.8-2毫米

The length of exposed plane: 81mm
Enclosure height: 72mm
Enclosure width: 18mm per pole (single pole)
Mounting manner: Adopt conduct rail of 35mm of IEC standard
Terminal shape: Two-function terminal can connect with busbar and soft or hard conducting wire
Conducting wire 1-25mm
Busbar thickness: 0.8-2mm

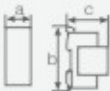
安装尺寸

Mounting Size



MCB DAB5-63

常规配电保护(IEC / EN 60898 - 1)
For protection of general power
distribution (IEC/EN 60898-1)

极数 Poles			1P	2P	3P	4P	
电气性能 Electrical performance							
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control				
额定频率 Rated frequency			f	Hz			
额定工作电压 Rated working voltage			Ue	V AC			
额定电流 Rated current			In	A			
额定绝缘电压 Rated insulated voltage			Ui	V			
冲击耐受电压 Impulse withstand voltage			Uimp	kV			
瞬时脱扣型 Instantaneous tripping type		DAB5-63N	B/C/D				
		DAB5-63H	B/C/D				
额定分断能力 Rated short circuit Icn(kA)		DAB5-63N	4.5KA(2-40A), 3.5KA(50-63A)				
		DAB5-63H	6KA(2-40A), 4.5KA(50-63A)				
脱扣类型 Release type			热磁式 Thermal magnetic type				
使用寿命 Service life (O-C)	机械 Mechanical	实际值 Actual value	20000				
		标准值 Standard value	4000				
	电气 Electrical	实际值 Actual value	8000				
		标准值 Standard value	4000				
连接和安装 Connection and installation							
防护等级 Protection degree			IP20				
电线 Wire			mm				
工作温度 Working temperature			-5 ~ +40℃				
阻燃等级 Resistance to humidity and heat			等级2 Class 2				
海拔高度 Altitude above sea			≤2000				
相对湿度 Relative humidity			+20℃, ≤90%; +40℃, ≤50%				
污染等级 Pollution degree			2				
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration				
安装等级 Installation class			等级Ⅱ Class Ⅱ, 等级Ⅲ Class Ⅲ				
导轨 Mounting			DIN35导轨 DIN35 rail				
可安装附件 Combination with accessories							
辅助触头 Auxiliary contact			✓				
报警触头 Alarm contact			✓				
分励脱扣器 Shunt release			✓				
欠压脱扣器 Under voltage release			✓				
辅连报 Auxiliary contact+Alarm contact			✓				
尺寸 Dimensions(mm) (WxHxL)			a	18	36	54	72
			b	80.2	80.2	80.2	80.2
			c	76.5	76.5	76.5	76.5

DAB5LE-63RCBO Miniature Residual Current Circuit Breaker

DAB5LE-63漏电断路器

型号及含义

Type and specification



技术参数

Technical parameter

符合标准: IEC61009,GB16917
 额定电压(Ue): 230V/400V,50HZ
 额定分断能力 Icn: 6KA
 电气寿命: 不少于8000次通断动作
 机械寿命: 不少于20000次通断动作

Conform to standard: IEC61009,GB16917
 Rated voltage(Ue): 230V/400V,50HZ
 Rated breaking capacity Icn: 6KA
 Electrical life: not less of 8,000 times switching operation
 Mechanical life: not less of 20,000 times switching operation

外形尺寸

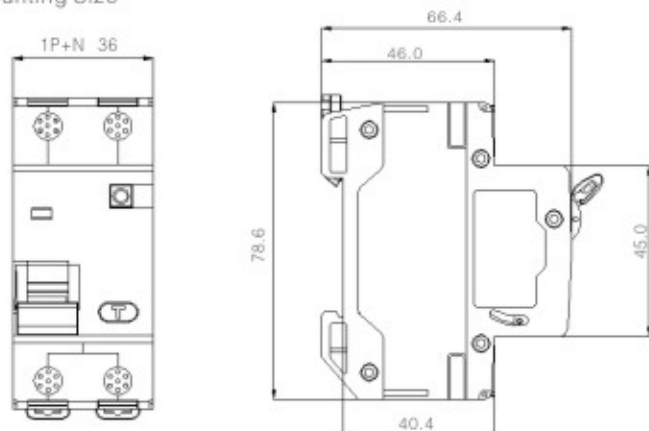
Outline dimensions

外壳长度: 81毫米
 外壳高度: 72毫米
 外壳宽度: 18毫米(单极)
 安装方式: 采用IEC标准导轨35毫米
 端子形式: 两用端子可以同时接母线排和软硬导线
 导线规格: 1-25mm² 母线排厚度: 0.8-2mm

The length of exposed plane: 81mm
 Enclosure height: 72mm
 Enclosure width: 18mm per pole (single pole)
 Mounting manner: Adopt conduct rail of 35mm of IEC standard
 Terminal shape: Two-function terminal can connect with busbar and soft or hard conducting wire
 Conducting wire 1-25mm²
 Busbar thickness: 0.8-2mm

安装尺寸

Mounting Size



RCBO DAB5LE-63

常规配电保护(IEC / EN 61009 - 1)
 For protection of general power
 distribution (IEC/EN 61009-1)



极数 Poles			1P+N			
电气性能 Electrical performance						
功能 Functions			短路保护, 过载保护, 隔离, 控制 short circuit protection, overload protection, isolation, control			
额定频率 Rated frequency		f	Hz	50-60Hz		
额定工作电压 Rated working voltage		Ue	V AC	230/400		
额定电流 Rated current		In	A	2, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63		
额定剩余动作电流 Rated residual current motion		IΔn	mA	10, 30, 100		
额定绝缘电压 Rated insulated voltage		Ui	V	500		
冲击耐受电压 Impulse withstand voltage		Uimp	kV	4		
瞬时脱扣型 Instantaneous tripping type		DAB5LE-63		B/C/D		
额定分断能力 Rated short circuit Icn(kA)		DAB5LE-63		6 (50-63A 4.5KA)		
脱扣类型 Release type			热磁式 Thermal magnetic type			
使用寿命 Service life (O-C)	机械 Mechanical	实际值 Actual value		20000		
		标准值 Standard value		4000		
	电气 Electrical	实际值 Actual value		8000		
		标准值 Standard value		4000		
连接和安装 Connection and installation						
防护等级 Protection degree			IP20			
电线 Wire		mm²		1-25		
工作温度 Working temperature			-5 ~ +40℃			
阻燃等级 Resistance to humidity and heat			等级2 Class 2			
海拔高度 Altitude above sea			≤2000			
相对湿度 Relative humidity			+20℃ , ≤90% ; +40℃ , ≤50%			
污染等级 Pollution degree			2			
安装环境 Installation environment			避免明显的冲击和震动 Avoid obvious shock and vibration			
安装等级 Installation class			等级Ⅱ Class Ⅱ , 等级Ⅲ Class Ⅲ			
导轨 Mounting			DIN35号轨 DIN35 rail			
可安装附件 Combination with accessories						
辅助触头 Auxiliary contact			✓			
报警触头 Alarm contact			✓			
分励脱扣器 Shunt release			✓			
欠压脱扣器 Under voltage release			✓			
辅连报 Auxiliary contact+Alarm contact			✓			
尺寸 Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80.2	80.2	80.2	80.2
		c	76.5	76.5	76.5	76.5

DABF360-RCCB Residual Current Circuit Breaker

DABF360-RCCB漏电断路器



型号及含义

Type and specification



适用范围

Applicable scope

DAF360剩余电流动作断路器是根据最新的IEC61008-1标准设计的，同时它还符合EN50022有关模数化开关的标准，即开关都可以卡装在“帽形”对称结构的标准导轨上。

DAF360剩余电流动作断路器在检测到对地故障电流(漏电电流)后，与漏电脱扣电流值进行比较，当故障电流值大于漏电脱扣电流值时断路器将回路分断。断路器和接地系统一起可以对人体的间接接触带电体进行保护，当额定漏电流大于或等于30mA时，也可以作为直接接触带电体的一种附加保护。

除了有直接或间接接触带电体保护的功能，该断路器也可以在绝缘遭到破坏时，对可能引起的火灾危险进行保护。

DAF360 residual current operated circuit breaker is based on the latest IEC61008-1 Standard design, but it also comply with the relevant EN50022 standard modular switch, that can switch cards installed in the "cap" on the symmetrical structure of the standard rail.

DAF360 residual current operated circuit breaker in the detected ground fault current (Leakage current) after the release and leakage current comparison, when the fault current is greater than the leakage current circuit breaker will trip trip circuitbreaking.

Circuit breakers and grounding system with indirect exposure to the human body can be charged body protection, when rated current is greater than or equal to 30mA leakage, they can be used as a direct contact with live parts of an additional protection.

In addition to direct or indirect contact with live parts protected function, the circuit breaker can also be to the destruction of the insulation when the fire hazard that may cause protection.

适用范围

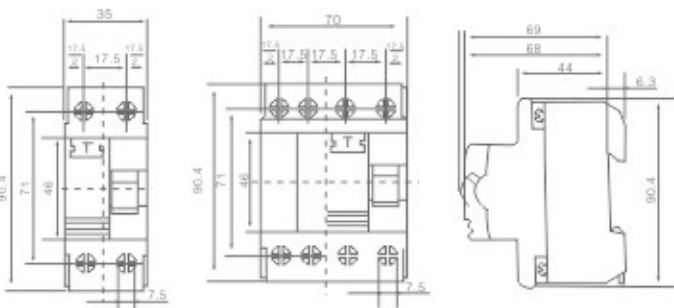
Applicable scope

DAF360型不带过电流保护的剩余电流动作断路器(RCCB)符合GB16916.1, IEC61008, BS4293等标准，适用于工矿企业，商业和家庭交流50-60赫兹，单相240(220V)，三相415V(380V)，作为人身触电和设备漏电保护装置，可以在正常情况下作为线路的不频繁转换之用。

DAF360 type over-current protection with no residual current operated circuit breakers(RCCB) Meet GB16916.1, IEC61008, BS4293 and other standards for mining enterprises industry, business and family communication 50-60Hz, single phase 240(220V), three-phase 415V(380V), as a personal electric shock and leakage protection device used, you can in normal circumstances the following lines are not as frequent conversion purposes.

安装尺寸

Mounting Size



正常使用条件

Normal conditions of use

- 1.周围空气温度: 5℃~40℃, 24小时平均不超过35℃。
- 2.海拔: 安装地点海拔高度不超过2000米
- 3.大气条件: 安装地点的空气相对湿度在最高气温40℃时不超过50%, 在最低温度不超过25℃时, 相对湿度不超过90%
- 4.安装类别: 安装类别1,3级
- 5.安装污染等级:
- 6.安装方式: 标准导轨安装
- 7.安装条件: 安装场所的外磁场任何方向均不应超过地磁场的5倍, RCCB应垂直安装, 手柄向上为电源接通位置, 安装处应无显著的冲击和振动。
- 8.接线方式: 用螺钉紧压接线或采用汇流排接线。

- 1.ambient air temperature: ambient air temperature of -5℃~40℃, 24-hour average no more than 35.
2. Altitude: installation site altitude does not exceed 2,000 meters.
3. the atmospheric conditions: air relative humidity installation site at the highest temperature of 40℃ without more than 50%, were the lowest temperature not exceed 25℃, relative temperature Not exceeding 90.
4. installation Category: installation category 1, 3 grade.
5. the installation of pollution levels: level of contamination is.
6. mounting: standard rail mounting.
7. the installation conditions: the external magnetic field installation site shall not exceed in any direction to the magnetic field 5 times, RCCB-like should be installed vertically, the handle up for the power position, installation should be no significant impact and vibration.
8. Connection: screw connection or pressed connection by bus.

结构及工作原理

Structure and working principle

1. 结构

DAF360剩余电流动作断路器主要由零序电流互感器、操作机构、触头系统、灭弧装置、绝缘外壳等组成。

2. 工作原理

电路正常工作时，剩余电流动作断路器处于闭合位置，当线路发生漏电或触电故障时，零序电流互感器输出的信号推动脱扣器动作，并在0.1秒内切断电源，从而实现漏电保护功能。

1. the structure.

Residual current operated circuit breakers DAF360 mainly by the zero sequence current transformer, de-Deduction, operating agencies, contact system, eliminate isolated devices, insulation shell and other components.

2. the working principle.

Circuit normal operation, the residual current operated circuit breaker in the closed position, when line fault causes a short circuit or electric shock, the zero sequence current transformer output signal action to promote the release, and 0.1 seconds off the power, in order to achieve leakage protection function.

RCCB DAF360

常规配电保护(IEC / EN 61008 - 1)
For protection of general power
distribution (IEC/EN 61008-1)



2P



4P

极数 Poles of number

电气性能 Electrical performance

额定电流 Rated current	I_n	A	6-63A
脱扣类型 Release type	电子式 Electronic type	电磁式 Magnetic type	
功能 Functions	漏电、隔离保护 Leakage, isolation protection		
剩余电流类型 Type of residual current	AC and A		
额定频率 Rated frequency	f	Hz	50-60Hz
额定工作电压 Rated working voltage	U_e	V AC	230/400
额定剩余电流 Rated residual current	$I_{\Delta n}$	mA	10, 30, 100, 300
绝缘电压 Insulation voltage	U_i		500V
额定冲击耐受电压 Rated impulse withstand voltage	U_{imp}		6KV
额定分断能力 Rated short circuit $I_{cn}(kA)$			6
使用寿命 Service life(O~C)	机械 Mechanical		10000
	电气 Electrical		4000
连接和安装 Connection and installation			
防护等级 Protection degree	IP20		
电线 Wire	mm^2		1-25
工作温度 Working temperature (with daily average $\leq 35^\circ C$)	$-5 - +40^\circ C$		
阻燃等级 Resistance to humidity and heat	等级2 Class 2		
海拔高度 Altitude above sea	≤ 2000		
相对湿度 Relative humidity	$+20^\circ C, \leq 90\%; +40^\circ C, \leq 50\%$		
污染等级 Pollution degree	2		
安装环境 Installation environment	避免明显的冲击和震动 Avoid obvious shock and vibration		
安装等级 Installation class	等级 II Class II, 等级 III Class III		
可安装附件 Combination with accessories			
辅助触头 Auxiliary contact	-		-
报警触头 Alarm contact	-		-
辅连报警触头 ALT+AUX	-		-
分励脱扣器 Shunt release	-		-
欠压脱扣器 Under voltage release	-		-
过压脱扣 Over voltage release	-		-
尺寸 Dimensions(mm) (WxHxL)	a	35	70
	b	90.4	90.4
	c	69	69

DAA Air Circuit Breaker

1.Application

DAA series air circuit breaker (hereinafter referred to as breaker) is suitable for the circuit of AC 50/60Hz with rated voltage 400V, 690V and rated current up to 6300A. It is mainly used to distribute electric energy and protect circuit and power supply equipment from overload under-voltage short-circuit, and single-phase earthing. With intelligent and selective protection functions, the breaker can improve the reliability of power supply, and avoid unnecessary power failure. The breaker is applicable for power stations, factories, mines (for 690V) and modern high-building, especially for the distribution system of intelligent building. The breaker conforms to IEC60947-2. The whole series have past CCC certification and CE certification.

2.Working Condition

Temperature condition: -5°C~+40°C; the average value within 24h not exceed +35°C. Elevation: altitude of installation place shall not exceed 2000m. Atmosphere condition: relative humidity at +40°C shall not exceed 50%. Higher humidity is permissible at lower temperature condition. When the higher monthly average relative humidity is 90% in the humidest month, the lowest monthly average temperature of this month is +25°C. And consider the influence of dew on product surface due to temperature changes. Pollution grade: grade III.

The breaker should be installed according to the requirement on the instruction manual: the vertical inclination degree shall not exceed 5°.

3. Specification

Type		DAA-2000	DAA-3200	DAA-4000	DAA-6300
Frame rated current I_{nm} (A)		2000	3200	4000	6300
Number of poles		3,4	3,4	3,4	3,4
Rated current I_n (A)		630,800,1000,1250,1600,2000	2000,2500,3200	2000,2500,3200,4000	4000,5000,6300
I_{cu} (kA)	400V	80	100	100	120
	690V	50	65	65	80
$I_{cs} = I_{cw}$ (kA)	400V	50	80	80	100
	690V	40	50	50	65
Rated current at N-pole I_n (A)		50% I_n , 100% I_n			
Inherent making & breaking time		23-32ms			
Operational performance (operations)	Electric life	500			
	Mechanical life	Maintenance-free 2500 Maintenance 10000			
Mounting mode		Fixed / Withdrawable			
Arcing distance(mm)		0			
Intelligent controller		Standard type(M) telecommunication type (H)			



DAA-2000



DAA-3200



DAA-6300

CJX2-D Contactor



1.GENERAL

- 1.1 Certificates: CE;
- 1.2 Electric ratings: AC50/60Hz, 690V, up to 620A;
- 1.3 Application: remote making & breaking circuits, protect circuit from over-load when assembling with thermal over-load relay, frequent start-up and control of AC motor;
- 1.4 Utilization category: AC-3, AC-4;
- 1.5 Altitude: $\leq 2000m$;
- 1.6 Ambient temperature: -5°C~+40°C;
- 1.7 Mounting category: III;
- 1.8 Mounting conditions: inclination between the mounting plane and the vertical plane should not exceed $\pm 5^\circ$;
- 1.9 Standard: IEC/EN 60947-4-1.

2.TECHNICAL DATA

Items	Model	CJX2-D09	CJX2-D12	CJX2-D18	CJX2-D25	CJX2-D32
Pole		3/4	3/4	3/4	3/4	3/4
Auxiliary Contact		1NO/1NC	1NO/1NC	1NO/1NC	1NO/1NC	1NO/1NC
Rated conventional heating current (A) AC-1		20	20	30	40	50
Rated operational current (A)	380/400V	AC-3	9	12	18	25
		AC-4	3.5	5	7.7	8.5
	660/690V	AC-3	6.6	8.9	12	18
		AC-4	1.5	2	3.8	4.4
Rated insulation voltage (V AC)		690	690	690	690	690
Power of controlled 3-phase cage motor (AC-3)	kW	220/230V AC	2.2	3	4	5.5
		380/415V AC	4	5.5	7.5	11
		660/690V AC	5.5	7.5	10	15
AC coil (V)		24,36,48,110,127,220,240,380,415,440,480,500,600				
DC coil (V)		24,36,48,110,220				

Items	Model	CJX2-D40	CJX2-D50	CJX2-D65	CJX2-D80	CJX2-D95
Pole		3/4	3/4	3/4	3/4	3/4
Auxiliary Circuit Cat: AC-15, $U_e=415V$, $I_e=0.95A$, $I_{th}=10A$		1NO/1NC	1NO/1NC	1NO/1NC	1NO/1NC	1NO/1NC
Rated conventional heating current (A) AC-1		60	80	80	110	110
Rated operational current (A)	380/400V	AC-3	40	50	65	80
		AC-4	18.5	24	28	37
	660/690V	AC-3	34	39	42	49
		AC-4	9	12	14	17.3
Rated insulation voltage (V AC)		690	690	690	690	690
Power of controlled 3-phase cage motor (AC-3)	kW	220/230V AC	11	15	18.5	22
		380/415V AC	18.5	22	30	37
		660/690V AC	30	37	37	45
AC coil (V)		24,36,48,110,127,220,240,380,415,440,480,500,600				
DC coil (V)		24,36,48,110,220				