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Product catalogue

MOULDED CASE CIRCUIT BREAKERS / MINIATURE CIRCUIT BREAKERS

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Contents

Moulded Case Circuit Breaker

MCCB accessory

Miniature Circuit breaker

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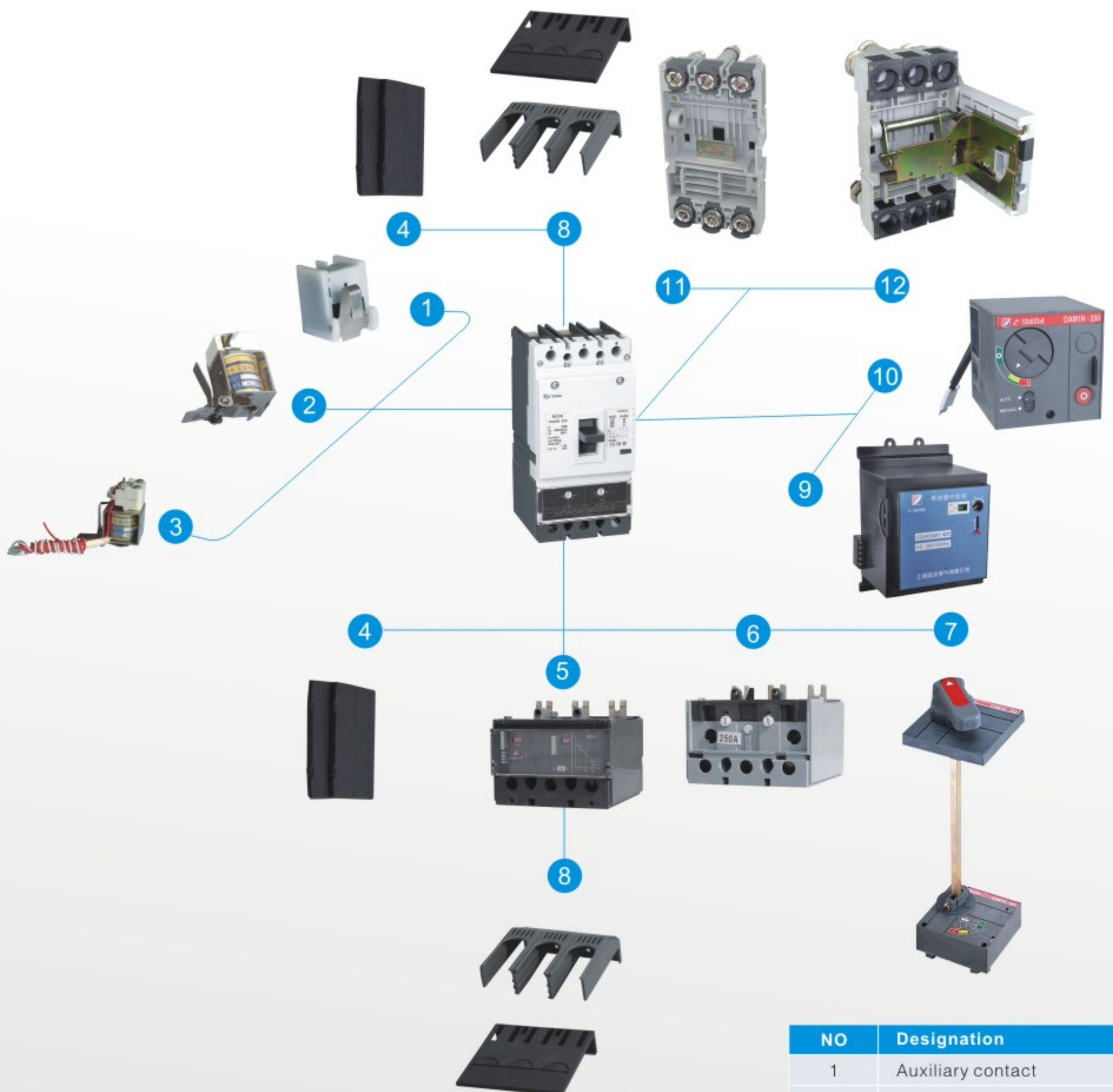

NO	Designation
1	Auxiliary contact
2	Under–voltage release
3	Shunt release
4	Interface barrier
5	Electronic release
6	Thermo–magnetic release
7	Handle operating mechanism
8	Terminal cover
9	Motor mechanism
10	Electrical operating mechanism
11	Plug–in device
12	Draw–out device

Types and meanings

DA M 1□ - □□/□□/□□/□

- Applicantion code※
- Release pattern and accessories code(see Table2)
- Pole numbdr, empty for 3 poles, "3N" for 3-pole-4-wire,"4" for 4 poles, "4B" for N-poles with protective function.
- Operation pattern Code ※※
- Circuit breaker Rated current In
- L means Residual-current operation circuit breaker
- Circuit breaker Rated of frame size current Inm
- Grade of the rated maximum value of the short-circuita breaking ability(see Table1)
- Codes of different ulti mate
- Design code
- Moulded case circuit breaker
- Code of enterprise

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 dindicates those operated by electric power.

DAM	1	N	160	L	160	3P
company code	Design Code	Breaking capacity code	Rated frame current Inm(A)	Earth leakage protection relay	Rated current In(A)	Poles
		B:25kA	125	4P (A): Neutral unprotected, without on and off	10A…125A	1P
		N:35kA	160	4P (B): Neutral unprotected, on and off	10A…160A	2P
		S:50kA	250	4P (C): Neutral protected, on and off	63A…250A	3P
		H:70kA	400		250A…400A	4P (A): Neutral unprotected, without on and off
			630		250A…600A	4P (B): Neutral unprotected, on and off
			800		400A…600A	4P (C): Neutral protected, on and off
			1600		800A…600A	

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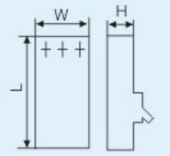
Thermal-Magnetic Circuit Breakers


Item		DAM1-160		DAM1-200	
Model		DAM1-160		DAM1-200	
Breaking Capacity Code		B	N	B	N
Rated Current of Frame size- Inm	(A)	160A		200A	
Rated Current-In(40,50 or 55℃)	(A)	10 - 12,5 - 16 - 20 - 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	
Rated Insulation Voltage -Ui(a.c.) 50-60Hz	(V)	500V		750V	
Rated operation Voltage -Ue(a.c.) 50-60Hz	(V)	230V		400V	
Number of Pole		1P		2P	
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO	(KA)	25	36	25	36
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-CO	(KA)	18.75	27	18.75	27
Rated short-circuit breaking capacity Icm(peak)/cos φ AC400V/50HZ O-CO	(KA)	40/0.3	135/0.25	40/0.3	
Rated impulse withstand Voltage -Uimp	(V)	10000		10000	
Dielectric Propery (V)		2500		2500	
Ionization distance	(mm)	≤30/0		≤30/0	
Endurance	Total Cycles	20000		15000	
	Electrical Life	3000		2500	
	Mechanical Life	17000		12500	
Over Current trip	Thermal release adjustable	–		–	
	Magnetic release adjustable (5In-10In)	–		–	
	Thermal and Magnetic release fix type	√		√	
Category (EN 60947-2/IEC 60947-2)	Main circuit	A/0		A/0	
	Auxiliary circuit	AC-15		AC-15	
Under Voltage Release		–		√	
Shunt Release		–		√	
Auxiliary Contact		–		–	
Alarm Contact		–		–	
Auxiliary Contact and Alarm Contact		–		–	
Handle Operation Mechanism		–		–	
Electrical Operastion Mechanism		–		–	
DIN clips		√		√	
Terminal cover		–		–	
Phase seperator		–		√	
Extention Handle		–		–	
Outine dimensions W (mm)	3P	30		60	
	4P	–		–	
L (mm)	3P	120		120	
	4P	–		–	
H (mm)	3P	70		70	
	4P	–		–	
Weight	Fixed version 3P/4P	0.92/1.3		0.92/1.3	
	Plug-in version 3P/4P	–		–	
	Draw out version 3P/4P	–		–	





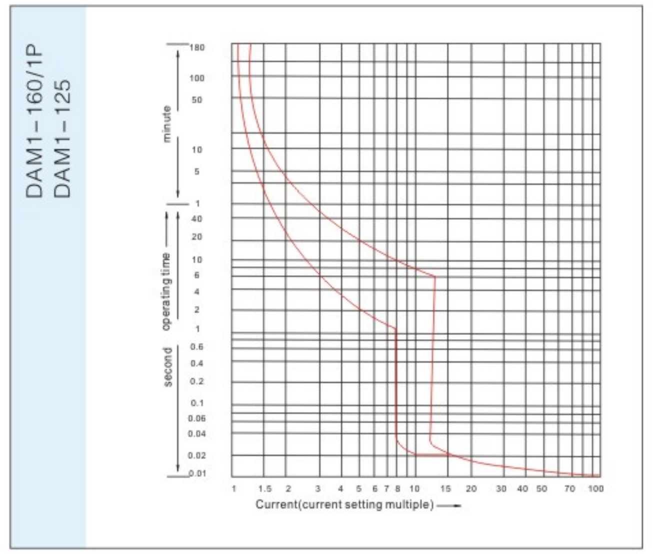
Item		DAM1-125			DAM1-160			DAM1-250			
Model		DAM1-125			DAM1-160			DAM1-250			
Breaking Capacity Code		B	N	S	B	N	S	N	S	H	G
Rated Current of Frame size- Inm	(A)	125A			160A			250A			
Rated Current-In(40,50 or 55℃)	(A)	10 - 12,5 - 16 - 20 - 25 - 32(30) - 40 - 50 - 63(60)- 80 - 100 - 125A			10- 12,5-16-20 - 25- 32 - 40 - 50 - 63 - 80 -100 -125 - 160(150)A			63 - 80-100-125 - 160(180) - 200(225) - 250(320)A			
Rated Insulation Voltage -Ui(a.c.) 50-60Hz	(V)	750V			750V			750V			
Rated operation Voltage -Ue(a.c.) 50-60Hz	(V)	400V			400/415V			400/415V			
Number of Pole		3P / 4P			3P / 4P			3P /4P			
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO	(KA)	25	35	50	25	35	50	35	50	65	85
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-CO	(KA)	12.5	17.5	37.5	12.5	26.25	37.5	26.25	37.5	48.75	51
Rated short-circuit breaking capacity Icm(peak)/cos φ AC400V/50HZ O-CO	(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
Rated impulse withstand Voltage -Uimp	(V)	10000			8000			8000			
Dielectric Propery (V)		2500			3000			3000			
Ionization distance	(mm)	≤30/0			≤30/0			≤30/0※			
Endurance	Total Cycles	8000			8000			8000			
	Electrical Life	1000			1000			1000			
	Mechanical Life	7000			7000			7000			
Over Current trip	Thermal release adjustable	–			Min:0,8In -Max:1In			Min:0,8In -Max:1In			
	Magnetic release adjustable (5In-10In)	–			–			–			
	Thermal and Magnetic release fix type	√			√			√			
Category (EN 60947-2/IEC 60947-2)	Main circuit	A/0			A/0			A/B			
	Auxiliary circuit	AC-15			AC-15			AC-15			
Under Voltage Release		√			√			√			
Shunt Release		√			√			√			
Auxiliary Contact		√			√			√			
Alarm Contact		√			√			√			
Auxiliary Contact and Alarm Contact		√			√			√			
Handle Operation Mechanism		√			√			√			
Electrical Operastion Mechanism		√			√			√			
DIN clips		√			√			–			
Terminal cover		√			√			√			
Phase seperator		√			√			√			
Extention Handle		–			–			–			
Outine dimensions W (mm)	3P	76			90			105			
	4P	101			120			140			
L (mm)	3P	120			120			170			
	4P	120			120			170			
H (mm)	3P	70			70			103.5			
	4P	70			70			103.5			
Weight	Fixed version 3P/4P	0.92/1.3			1.2/1.6			2.7/3.5		41.5/5.5	
	Plug-in version 3P/4P	1.2/1.5			1.4/1.8			3.2/4.2		4.6/6	
	Draw out version 3P/4P	–			–			3.6/4.6		5/6.4	

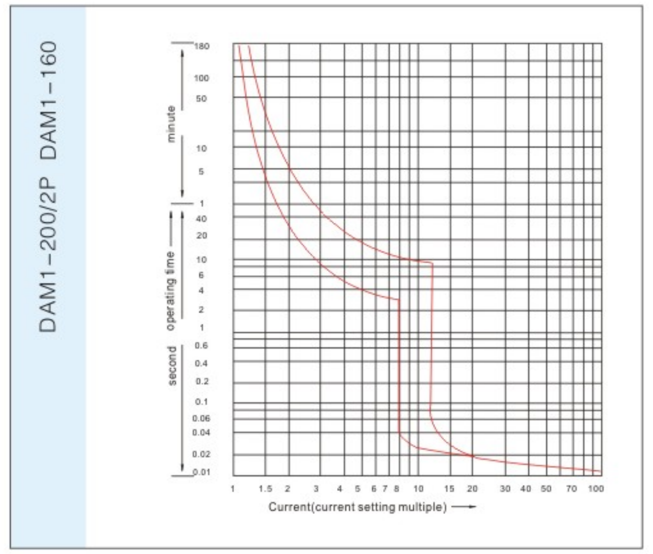


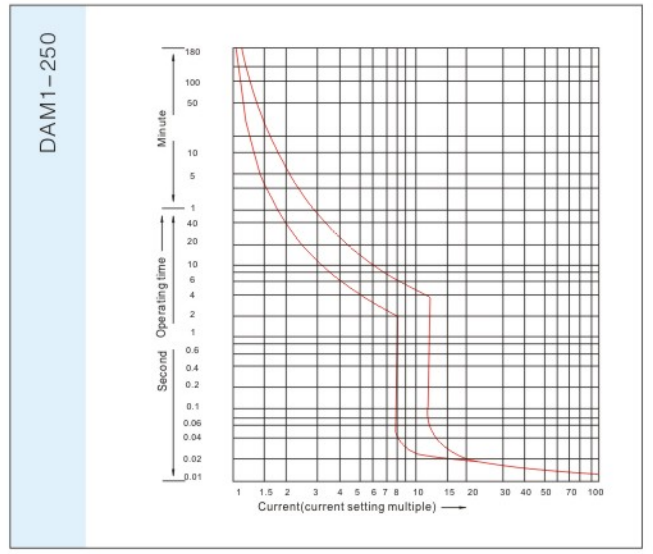
Item		DAM1-630(400)				DAM1-800				DAM1-1600		
Model		DAM1-630(400)				DAM1-800				DAM1-1600		
Breaking Capacity Code		N	S	H	G	N	S	H	G	S	H	G
Rated Current of Frame size- Inm	(A)	400A				800A				1600A		
Rated Current-In(40,50 or 55℃)	(A)	250 - 315 (350)- 400 - 500 - 630A				400 - 500 - 630 (700)- 800 -1000A				800 - 1000 - 1250 - 1600A		
Rated Insulation Voltage -Ui(a.c.) 50-60Hz	(V)	750V				750V				750V		
Rated operation Voltage -Ue(a.c.) 50-60Hz	(V)	400/415V				400/415V				400V		
Number of Pole		3P /4P				3P /4P				3P / 4P		
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO	(KA)	35	50	70	85	35	50	70	85	65	85	100
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-CO	(KA)	26.25	37.5	52.5	52.5	35	37.5	52.5	52.5	50	50	50
Rated short-circuit breaking capacity Icm(peak)/cos φ AC400V/50HZ O-CO	(KA)	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
Rated impulse withstand Voltage -Uimp	(V)	8000				8000				8000		
Dielectric Propery (V)		3000				3000				3000		
Ionization distance	(mm)	≤60/0※				≤80/0※				≤80/0※		
Endurance	Total Cycles	5000				5000				3000		
	Electrical Life	1000				1000				500		
	Mechanical Life	4000				4000				2500		
Over Current trip	Thermal release adjustable	Min:0,8In -Max:1In				Min:0,8In -Max:1In				Min:0,8In -Max:1In		
	Magnetic release adjustable (5In-10In)	–				–				–		
	Thermal and Magnetic release fix type	√				√				√		
Category (EN 60947-2/IEC 60947-2)	Main circuit	A/B				A/B				A/B		
	Auxiliary circuit	AC-15				AC-15				AC-15		
Under Voltage Release		√				√				√		
Shunt Release		√				√				√		
Auxiliary Contact		√				√				√		
Alarm Contact		√				√				√		
Auxiliary Contact and Alarm Contact		√				√				√		
Handle Operation Mechanism		√				√				√		
Electrical Operastion Mechanism		√				√				√		
DIN clips		–				–				–		
Terminal cover		√				√				√		
Phase seperator		√				√				√		
Extention Handle		√				√				√		
Outine dimensions W (mm)	3P	140				210				210		
	4P	184				280				280		
L (mm)	3P	254				268				410		
	4P	254				268				410		
H (mm)	3P	103.5				103.5				138.5		
	4P	103.5				103.5				138.5		
Weight	Fixed version 3P/4P	5.1/7.1				9.6/12.5				17.2/22.2		
	Plug-in version 3P/4P	6.5/8.5				–				–		
	Draw out version 3P/4P	6.5/8.7				12.2/15.3				22/30.1		

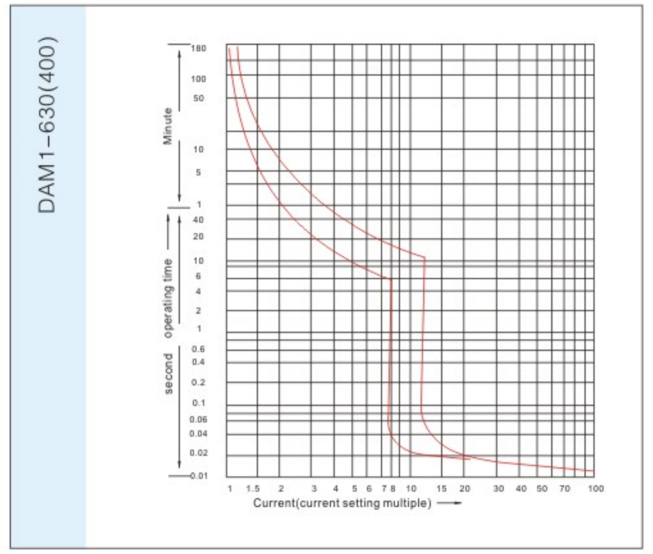
MCCB
MCCB accessory
MCB

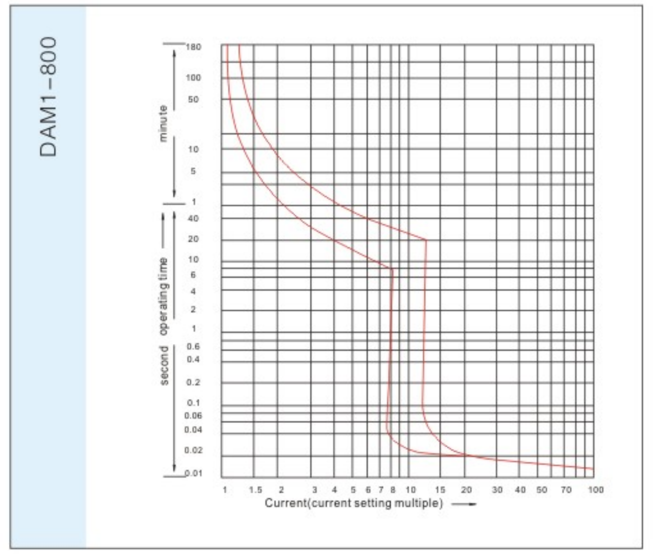
Protective Curve











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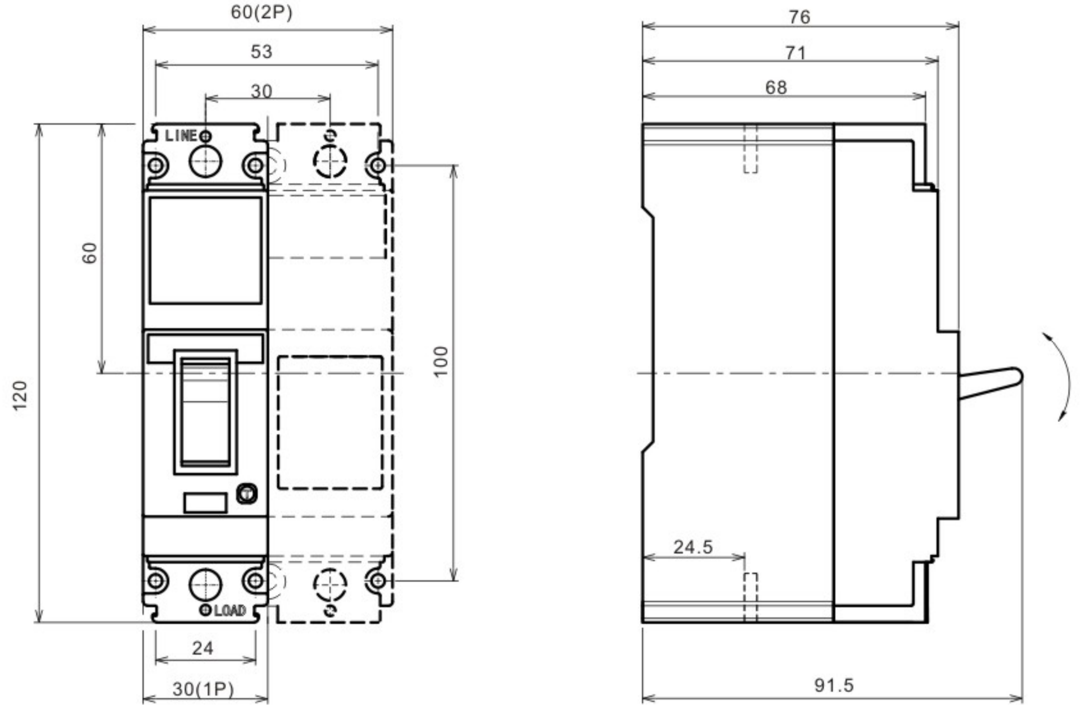
MCCB CBR

Thermal-Magnetic Circuit Breakers
Thermal Adjustable Magnetic adjustable Circuit Breakers (TAMA)
Electronic Circuit Breakers
Earth-Leakage Circuit Breakers(ELCB)

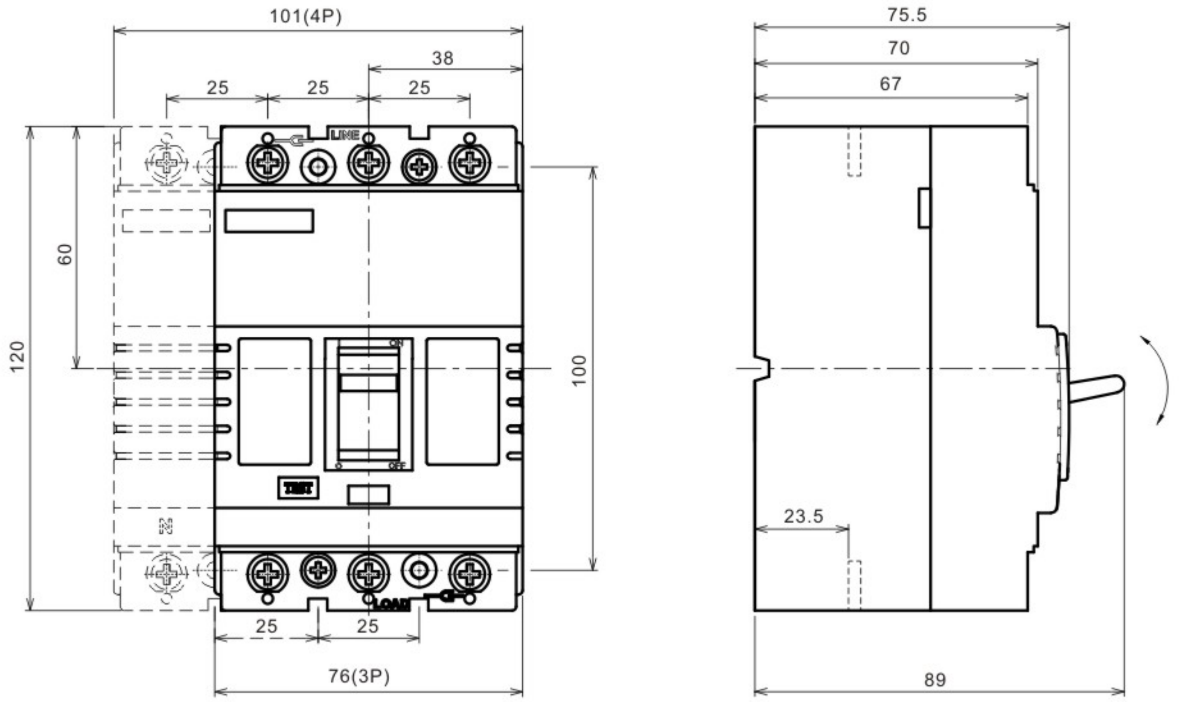
CE CB RoHS KEMA KEUR

Outline dimension

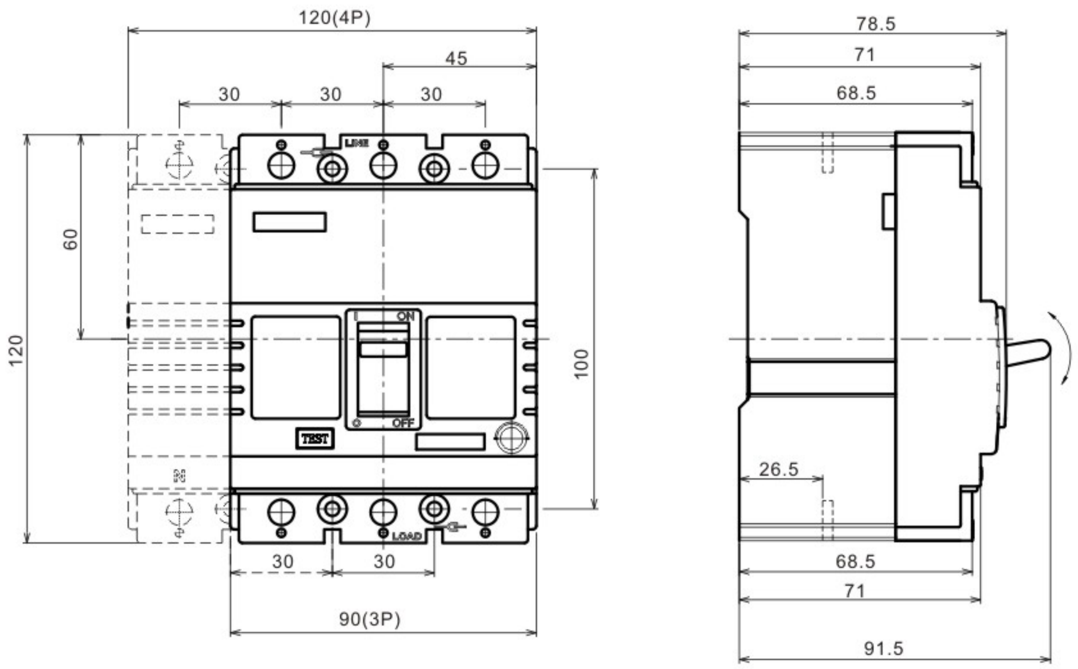
DAM1−160/1P/2P



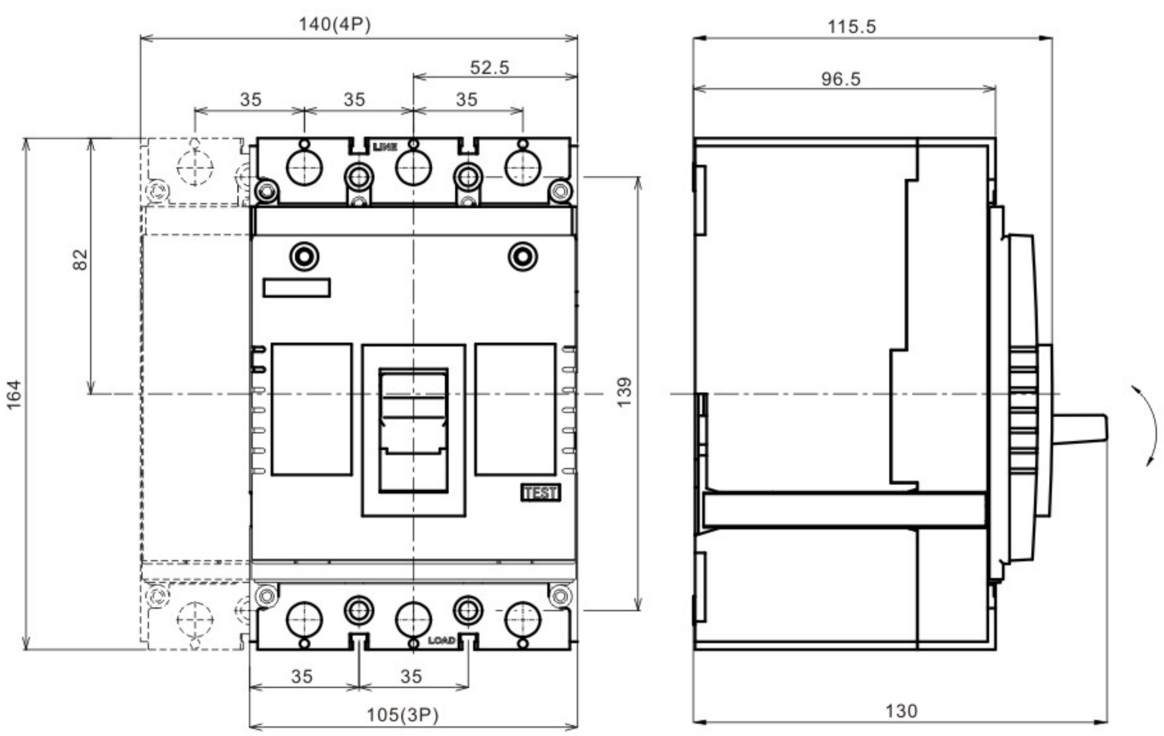
DAM1−125/3P/4P



DAM1-160/3P/4P



DAM1-250/3P/4P



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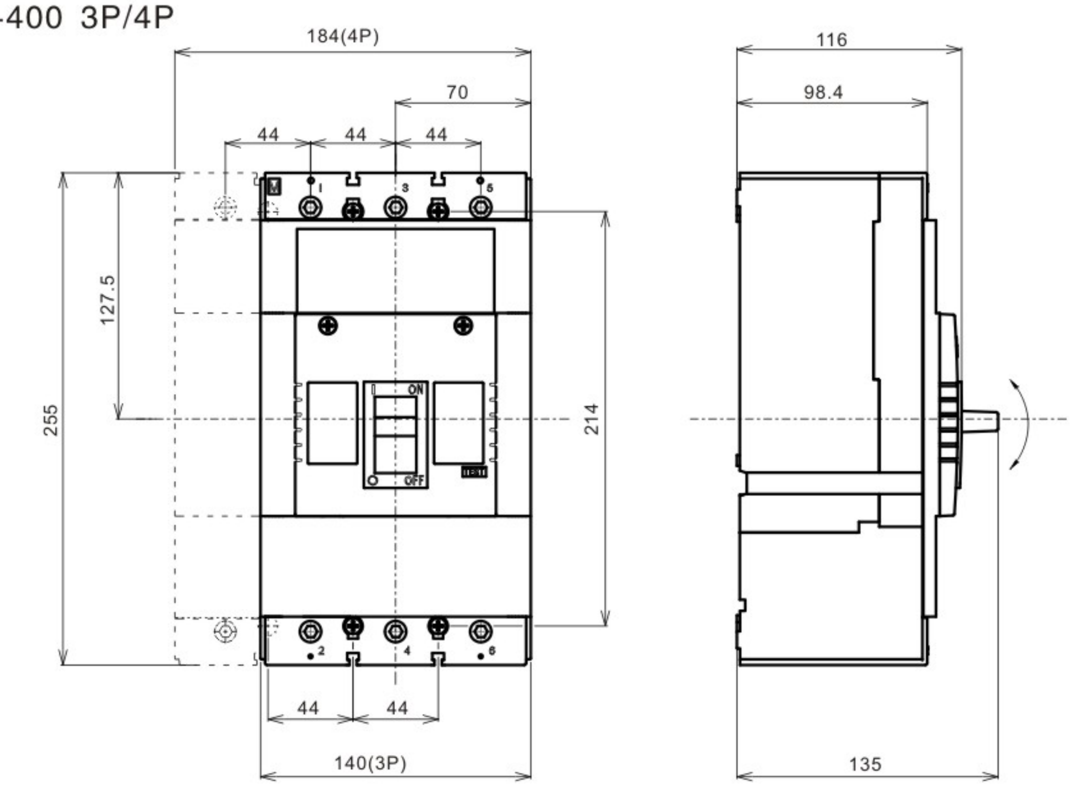
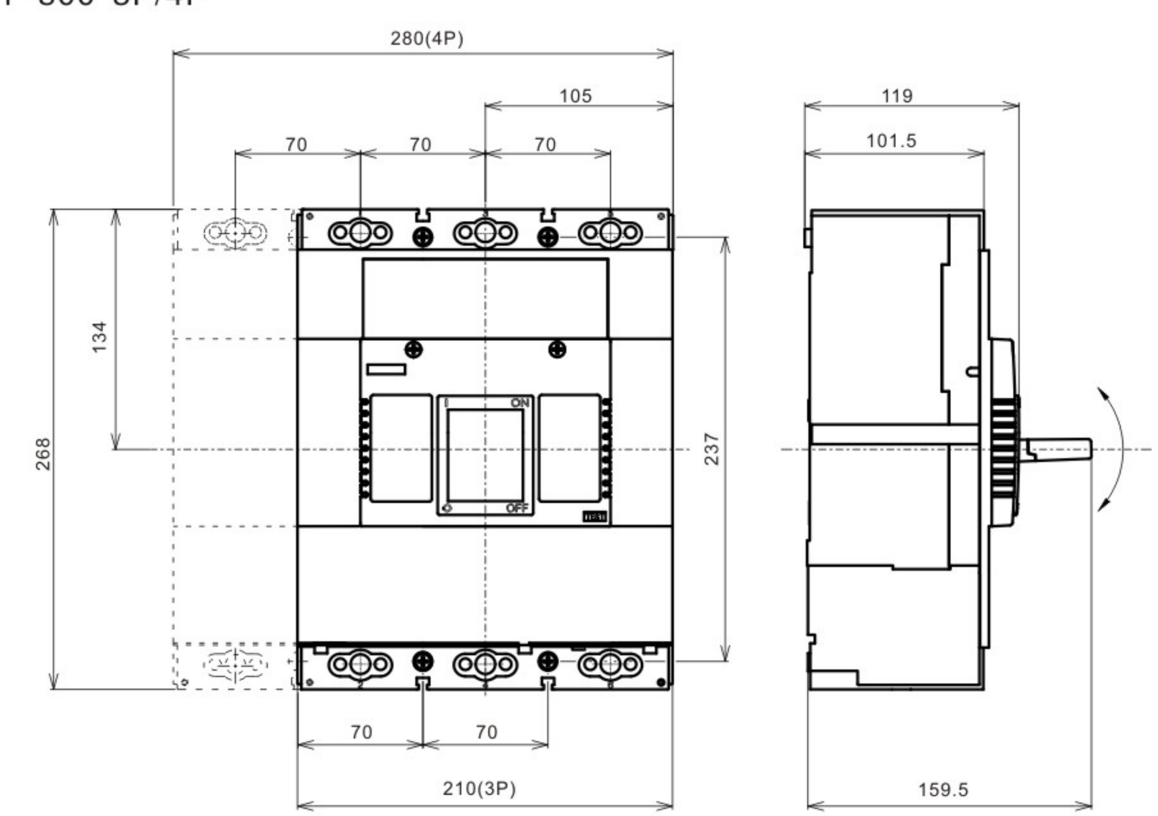
DAM1-400 3P/4P



DAM1-800 3P/4P

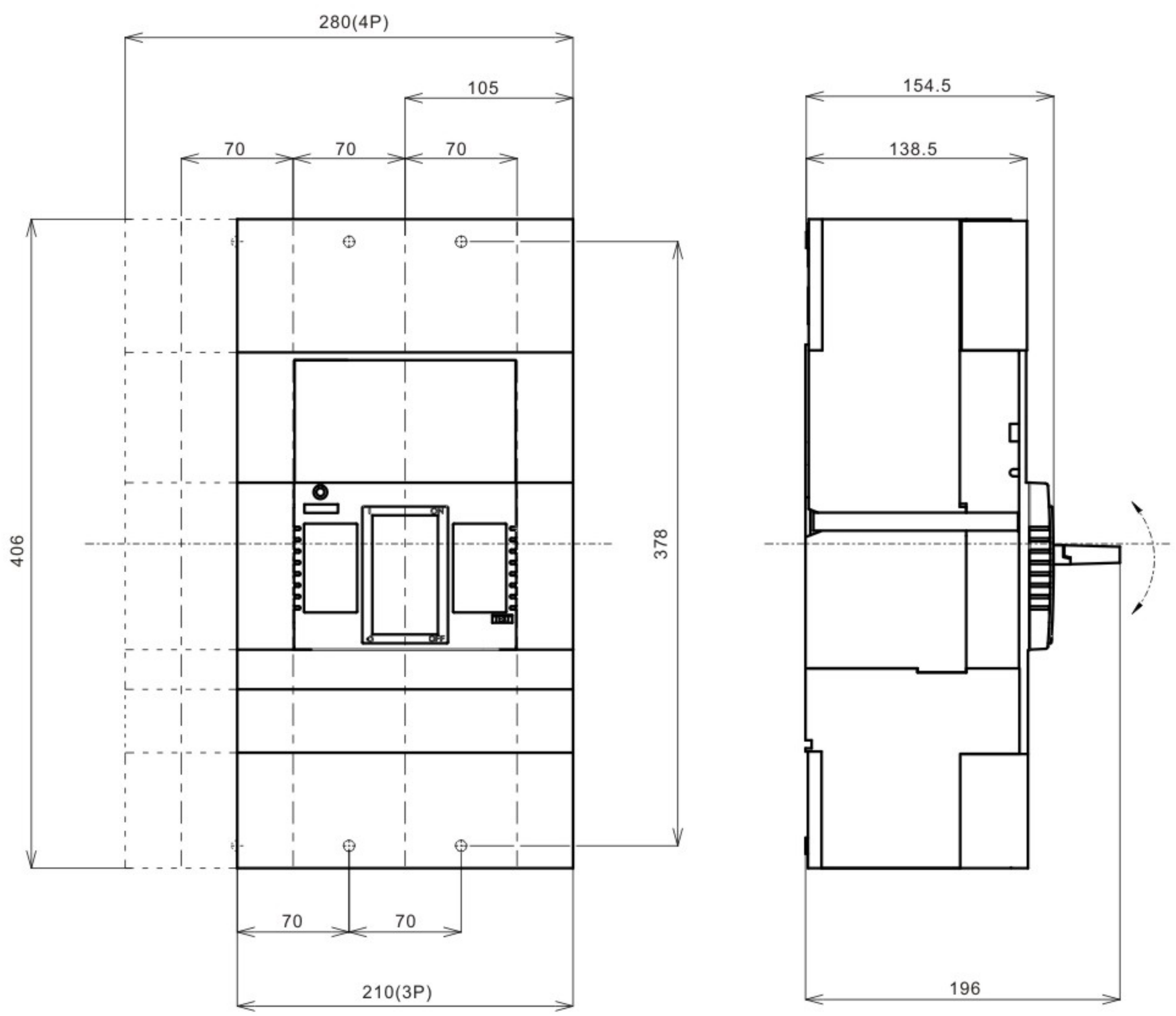


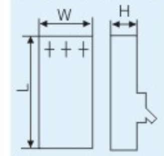
MCCB

MCCB accessory

MCB

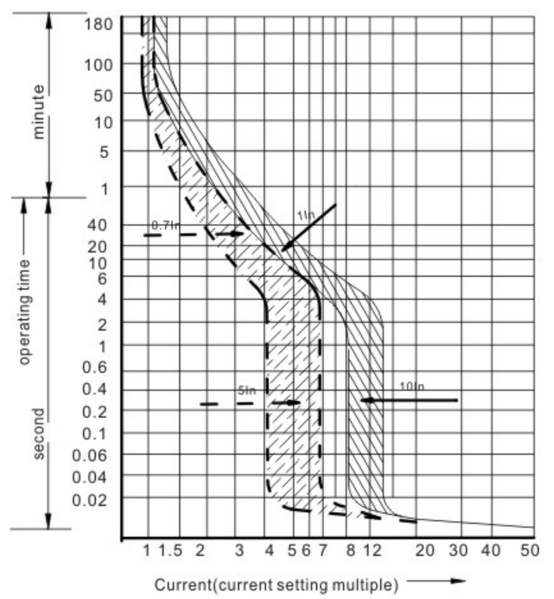
DAM1-1600 3P/4P



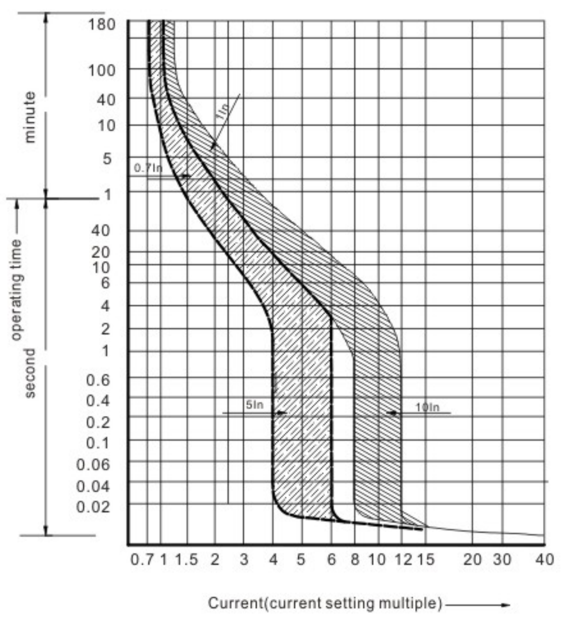
Thermal Adjustable Magnetic adjustable Circuit Breakers (TAMA)																	
Model			DAM1-250				DAM1-630(400)				DAM1-800				DAM1-1600		
Breaking Capacity Code			N	S	H	G	N	S	H	G	N	S	H	G	S	H	G
Rated Current of Frame size- Inm		(A)	250A				400A				800A				1600A		
Rated Current-In(40,50 or 55℃)		(A)	125 - 160(180) - 200(225) - 250 -320A				250 - 315 (350)- 400 - 500 - 630A				400- 500-630 (700)- 800-1000A				800 -1000 - 1250 - 1600A		
Rated Insulation Voltage -Ui(a.c.) 50-60Hz		(V)	750V				750V				750V				750V		
Rated operation Voltage -Ue(a.c.) 50-60Hz		(V)	400/415V				400/415V				400/415V				400V		
Number of Pole			3P				3P /4P				3P				3P		
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO		(KA)	35	50	65	85	35	50	70	85	35	50	70	85	65	85	100
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-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
Rated short-circuit breaking capacity Icm(peak)/cos ϕ AC400V/50HZ O-CO		(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
Rated impulse withstand Voltage -Uimp		(V)	8000				8000				8000				8000		
Dielectric Propery (V)			3000				3000				3000				3000		
Ionization distance		(mm)	≤30/0※				≤60/0※				≤80/0※				≤80/0※		
Endurance	Total Cycles		8000				5000				5000				3000		
	Electrical Life		1000				1000				1000				500		
	Mechanical Life		7000				4000				4000				2500		
Over Current trip	Thermal release adjustable		Min:0,7In -Max:1In				Min:0,7In -Max:1In				Min:0,7In -Max:1In				Min:0,7In -Max:1In		
	Magnetic release adjustable		5In-10In				5In-10In				5In-10In				5In-10In		
Category (EN 60947 -2/IEC 60947-2)	Main circuit		A/B				A/B				A/B				A/B		
	Auxiliary circuit		AC-15				AC-15				AC-15				AC-15		
Under Voltage Release			√				√				√				√		
Shunt Release			√				√				√				√		
Auxiliary Contact			√				√				√				√		
Alarm Contact			√				√				√				√		
Auxiliary Contact and Alarm Contact			√				√				√				√		
Handle Operation Mechanism			√				√				√				√		
Electrical Operastion Mechanism			√				√				√				√		
DIN clips			-				-				-				-		
Terminal cover			√				√				√				√		
Phase seperator			√				√				√				√		
Extention Handle			√				√				√				√		
Outine dimensions 	W (mm)	3P	105				140				210				210		
		4P	-				184				-				-		
	L (mm)	3P	212.5				254				268				385		
		4P	-				254				-				-		
	H (mm)	3P	103.5				103.5				103.5				138.5		
		4P	-				103.5				-				-		
Weight	Fixed version 3P/4P		2.7/3.5		41.5/5.5		5.1/7.1				9.6/12.5				17.2/22.2		
	Plug-in version 3P/4P		3.2/4.2		4.6/6		6.5/8.5				-				-		
	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

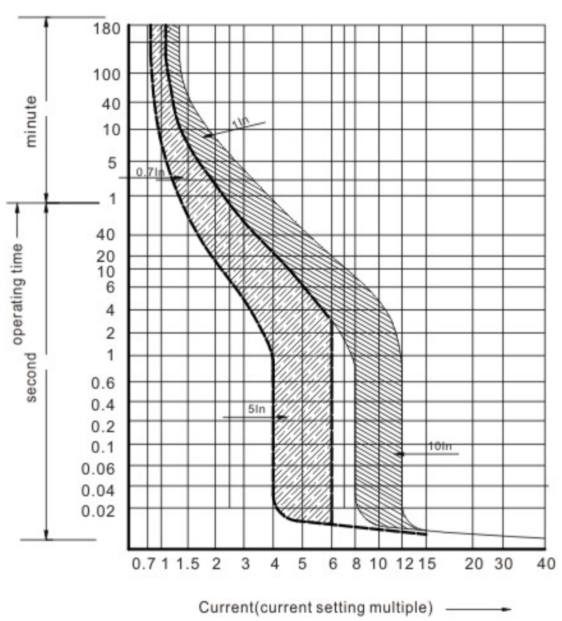
DAM1-250 TAMA



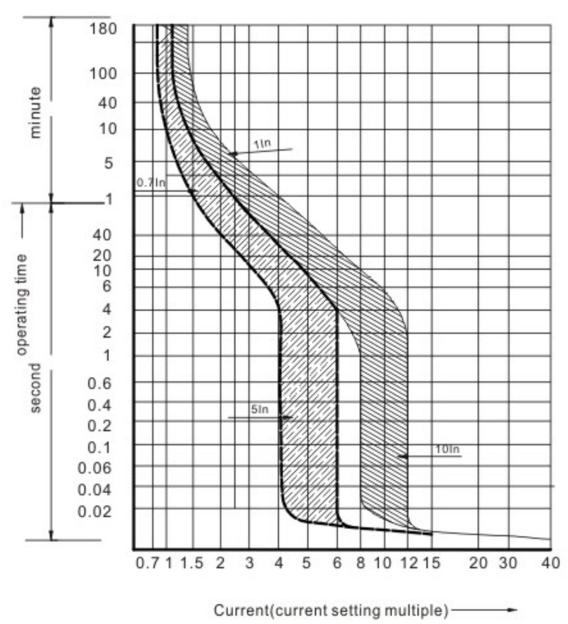
DAM1-400/630 TAMA



DAM1-800/1000 TAMA

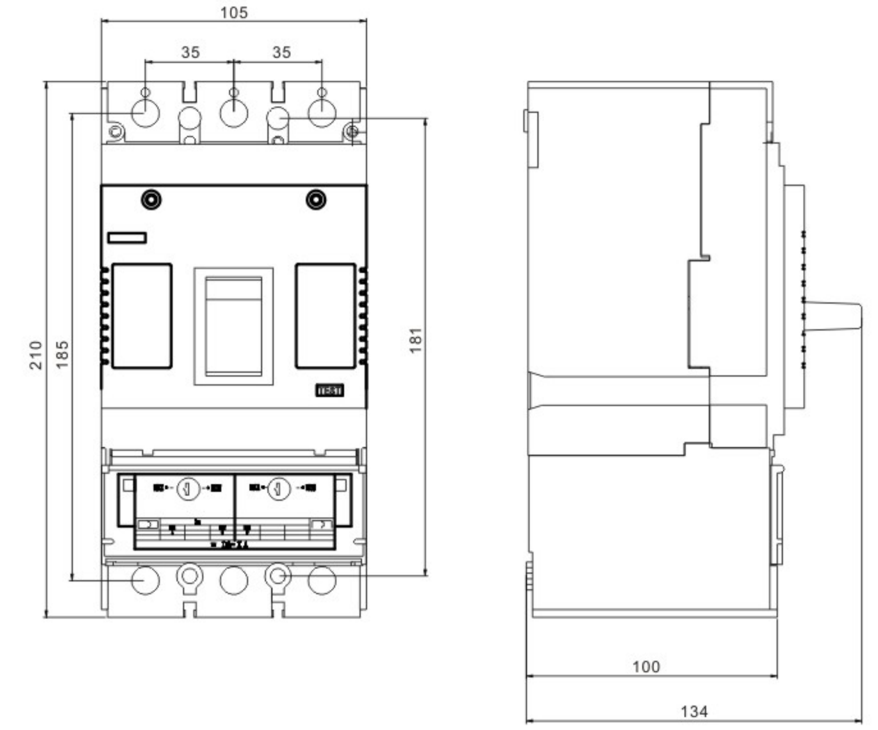


DAM1-1600 TAMA

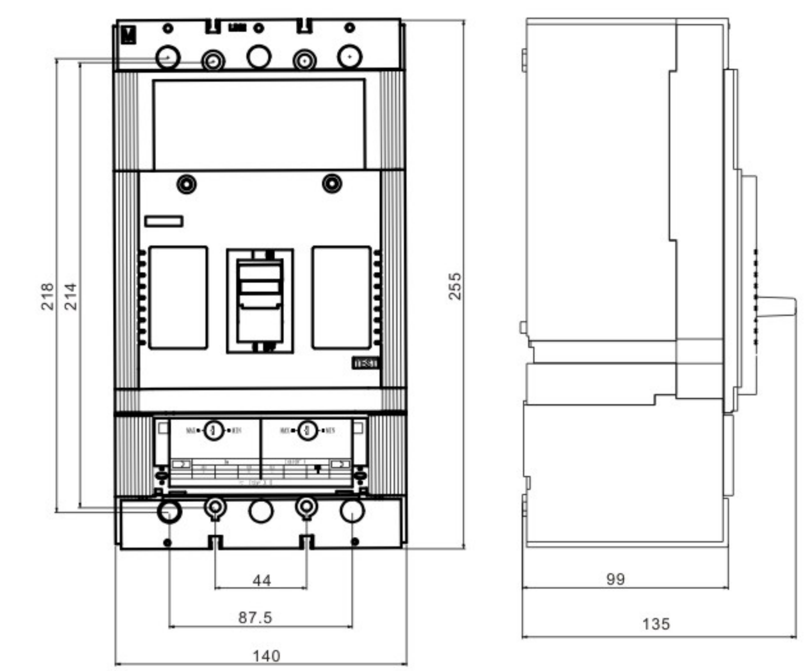


Outline dimension for thermal-magnetic adjustable MCCB

DAM1-250

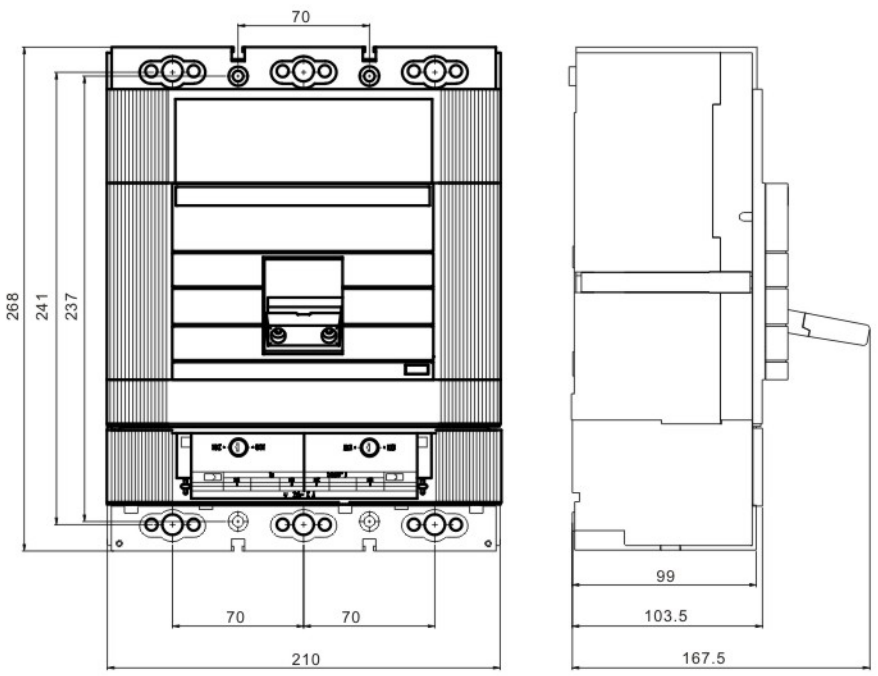


DAM1-630

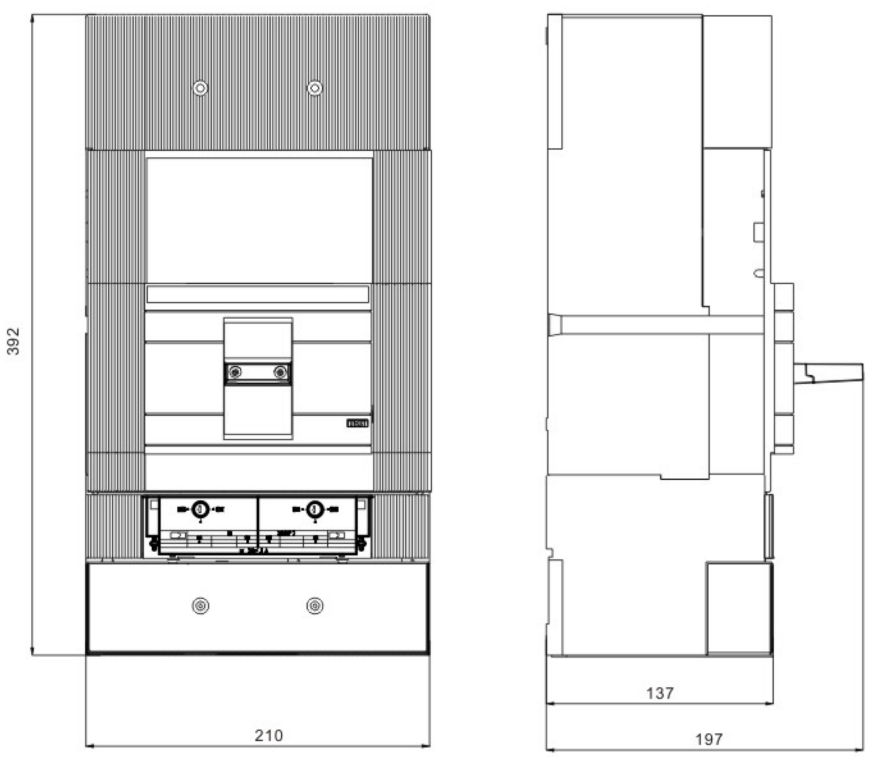


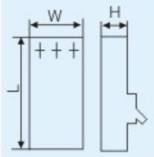
MCCB
MCCB accessory
MCB

DAM1-800



DAM1-1600

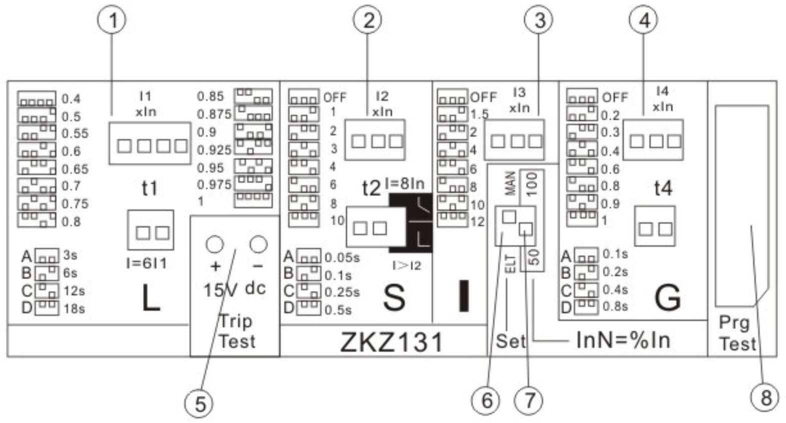


Electronic Circuit Breakers																	
Model			DAM1-250				DAM1-630(400)				DAM1-800				DAM1-1600		
Breaking Capacity Code			N	S	H	G	N	S	H	G	N	S	H	G	S	H	G
Rated Current of Frame size- Inm		(A)	250A				400A				800A				1600A		
Rated Current-In(40,50 or 55℃)		(A)	125 - 160(180) - 200(225) - 250 -320A				250 - 315 (350)- 400 - 500 - 630A				400 - 500 - 630 (700)- 800 -1000A				800 -1000 - 1250 - 1600A		
Rated İnsulation Voltage -Ui(a.c.) 50-60Hz		(V)	750V				750V				750V				750V		
Rated operation Voltage -Ue(a.c.) 50-60Hz		(V)	400/415V				400/415V				400/415V				400V		
Number of Pole			3P				3P /4P				3P				3P		
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO		(KA)	35	50	65	85	35	50	70	85	35	50	70	85	65	85	100
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-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
Rated short-circuit breaking capacity Icm(peak)/cos ϕ AC400V/50HZ O-CO		(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
Rated impulse withstand Voltage -Uimp		(V)	8000				8000				8000				8000		
Dielectric Propery (V)			3000				3000				3000				3000		
Ionization distance		(mm)	≤30/0※				≤60/0※				≤80/0※				≤80/0※		
Endurance	Total Cycles		8000				5000				5000				3000		
	Electrical Life		1000				1000				1000				500		
	Mechanical Life		7000				4000				4000				2500		
Over Current trip	Thermal release adjustable		(0,4-0,5-0,6-0,7-0,8-0,9-1)x1In				(0,4-0,5-0,6-0,7-0,8-0,9-1)x1In				(0,4-0,5-0,6-0,7-0,8-0,9-1)x1In				(0,4-0,5-0,6-0,7-0,8-0,9-1)x1In		
	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		
Operating Curve at 6Ir			3S-6S-12S-18S				3S-6S-12S-18S				3S-6S-12S-18S				3S-6S-12S-18S		
Category (EN 60947-2/IEC 60947-2)	Main circuit		A/B				A/B				A/B				A/B		
	Auxiliary circuit		AC-15				AC-15				AC-15				AC-15		
Under Voltage Release			√				√				√				√		
Shunt Release			√				√				√				√		
Auxiliary Contact			√				√				√				√		
Alarm Contact			√				√				√				√		
Auxiliary Contact and Alarm Contact			√				√				√				√		
Handle Operation Mechanism			√				√				√				√		
Electrical Operastion Mechanism			√				√				√				√		
DIN clips			-				-				-				-		
Terminal cover			√				√				√				√		
Phase seperator			√				√				√				√		
Extention Handle			√				√				√				√		
Outine dimensions 	W (mm)	3P	105				140				210				210		
		4P	-				184				-				-		
	L (mm)	3P	212.5				254				268				406		
		4P	-				254				-				-		
	H (mm)	3P	103.5				103.5				103.5				138.5		
		4P	-				103.5				-				-		
Weight	Fixed version 3P/4P		2.7/3.5		41.5/5.5		5.1/7.1				9.6/12.5				17.2/22.2		
	Plug-in version 3P/4P		3.2/4.2		4.6/6		6.5/8.5				-				-		
	Draw out version 3P/4P		3.6/4.6		5/6.4		6.5/8.7				12.2/15.3				22/30.1		

MCCB
MCCB accessory
MCB

Electronic release

DAM1 series circuit breaker (Inm 250A and the above) applies the most advanced PR211/ PR212. The electronic release has function of intellectual protection.



Electronic Release Settings

Table1 PR211 type

S.No.	Function	Settings	Type	PR211	PR211	PR211	PR211	Factroy reset
			Poles	3P	3P	3P	3P	
			Rating (A)	250	400	800	1600	
1	L	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		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	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

Table2 PR212 type

S.No.	Function	Settings	Type	PR212	PR212	PR212	PR212	Factroy reset
			Poles	3P	3P	3P	3P	
			Rating (A)	250	400/630	800	1600	
1	L	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		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	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		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	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	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		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		Selection of electric or electronic parameters set		Function SET (switch ELT/MAN)				
9		Used for setting parameters of dip switch of zero line		InN=%In,switch 50/100				
10		Socket for connection measuring device		Panel socket				

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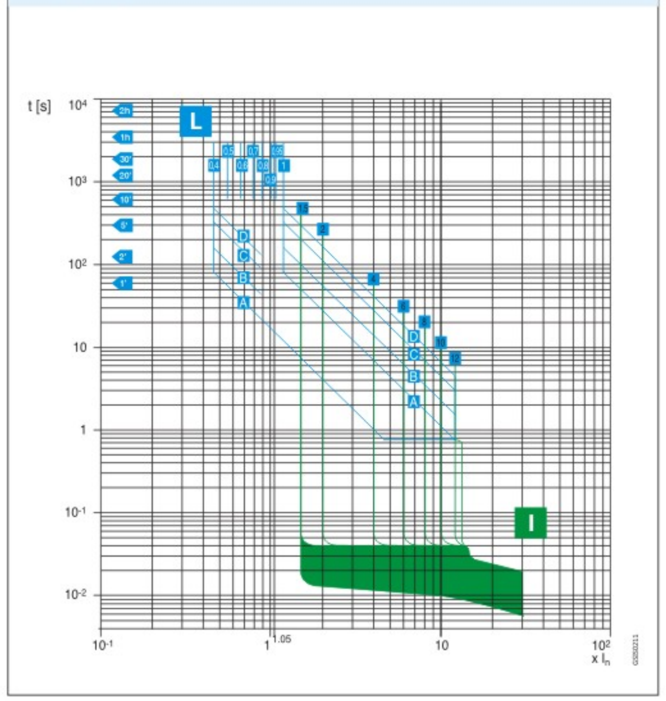
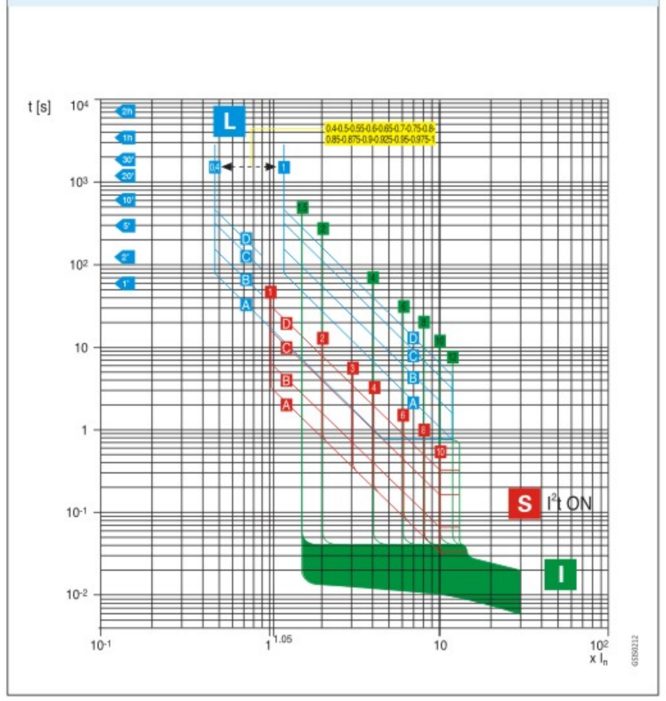
Eletronic release characteristic curves

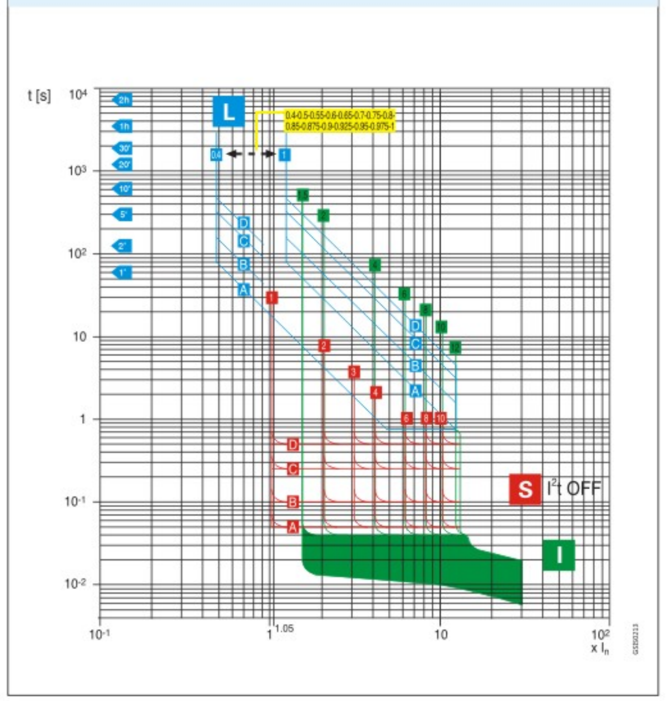
PR211/P
LI−I



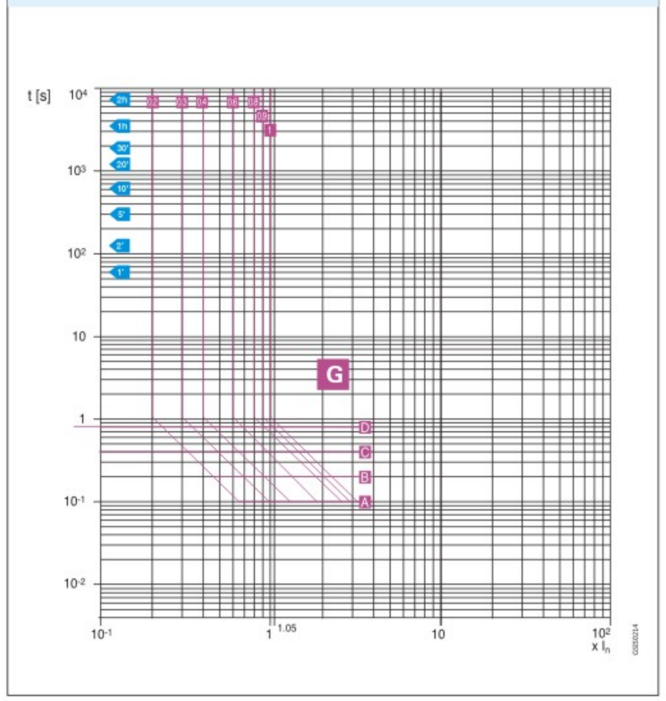
PR212/P

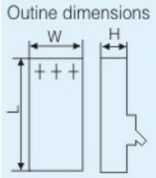


PR212/P



PR212/P



Earth-Leakage Circuit Breakers(ELCB)																
Model			DAM1-125L			DAM1-160L			DAM1-250L				DAM1-400L			
Breaking Capacity Code			B	N	S	B	N	S	N	S	H	G	N	S	H	G
Rated Current of Frame size- Inm		(A)	125A			160A			250A				400A			
Rated Current-In(40,50 or 55℃)		(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			
Rated İnsulation Voltage -Ui(a.c.) 50-60Hz		(V)	690V			690V			690V				690V			
Rated operation Voltage -Ue(a.c.) 50-60Hz		(V)	400V			400/415V			400/415V				400/415V			
Number of Pole			4P			4P			4P				4P			
Rated ultimate short Circuit breaking Capacity kA Icu AC400V/50Hz O-CO		(KA)	25	35	50	25	35	50	35	50	65	85	35	50	70	85
Rated service short Circuit breaking Capacity kA Ics AC400V/50Hz O-CO-CO		(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
Rated short-circuit breaking capacity Icm(peak)/cos ϕ AC400V/50HZ O-CO		(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
Rated remnant current short-circuit making capacity(I△m)KA/cosϕ			9/0.5			19/0.5			12/0.3				19/0.5			
Residual current threshold		(mA)	100-300-500			100-300-500			100-300-500				100-300-500			
Time delay		(ms)	50-500-800			50-500-800			50-500-800				50-500-800			
Rated impulse withstand Voltage -Uimp		(V)	10000			8000			8000				8000			
Dielectric Propery (V)			2500			3000			3000				3000			
Ionization distance		(mm)	≤30/0			≤30/0			≤30/0※				≤60/0※			
Endurance	Total Cycles		8000			8000			8000				5000			
	Electrical Life		1000			1000			1000				1000			
	Mechanical Life		7000			7000			7000				4000			
Over Current trip	Thermal release adjustable		–			Min:0,8In -Max:1In			Min:0,8In -Max:1In				Min:0,8In -Max:1In			
	Magnetic release adjustable (5In-10In)		–			–			–				–			
	Thermal and Magnetic release fix type		√			√			√				√			
Category (EN 60947-2/IEC 60947-2)	Main circuit		A/0			A/0			A/B				A/B			
	Auxiliary circuit		AC-15			AC-15			AC-15				AC-15			
Under Voltage Release			√			√			√				√			
Shunt Release			√			√			√				√			
Auxiliary Contact			√			√			√				√			
Alarm Contact			√			√			√				√			
Auxiliary Contact and Alarm Contact			√			√			√				√			
Handle Operation Mechanism			√			√			√				√			
Electrical Operastion Mechanism			√			√			√				√			
Terminal cover			√			√			√				√			
Phase seperator			√			√			√				√			
Outine dimensions 	W (mm)	3P	–			–			–				–			
		4P	101			120			140				184			
	L (mm)	3P	–			–			–				–			
		4P	155			120			210				254			
	H (mm)	3P	–			–			–				–			
		4P	70			70			103.5				103.5			
Weight	Fixed version 3P/4P		–			–			–		41.5/5.5		5.1/7.1			
	Plug-in version 3P/4P		–			–			–		4.6/6		6.5/8.5			
	Draw out version 3P/4P		–			–			–		5/6.4		6.5/8.7			

Breaking time for residual current operation of non-delay residual current type circuit breaker

Table 7

Residual current	I△n	2I△n	5I△n	10I△n
Max.breaking time s	0.3	0.15	0.04	0.04

Note: for circuit breaker with I△≤30mA residual current, 0.25A substitutes 5I△n, meanwhile, 0.5A substitutes 10I△n

Operation character of time-delay residual current type circuit breaker

Table 8

Max break time / The current of remnant / The limit and non drive time	I△n	2I△n	5I△n	10I△n	remark
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	

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

Operation characteristocs of adjustable time delay residual current type circuit brealker

Table 9

Rated current of frame size	Rated remnant operation current only adjustable	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

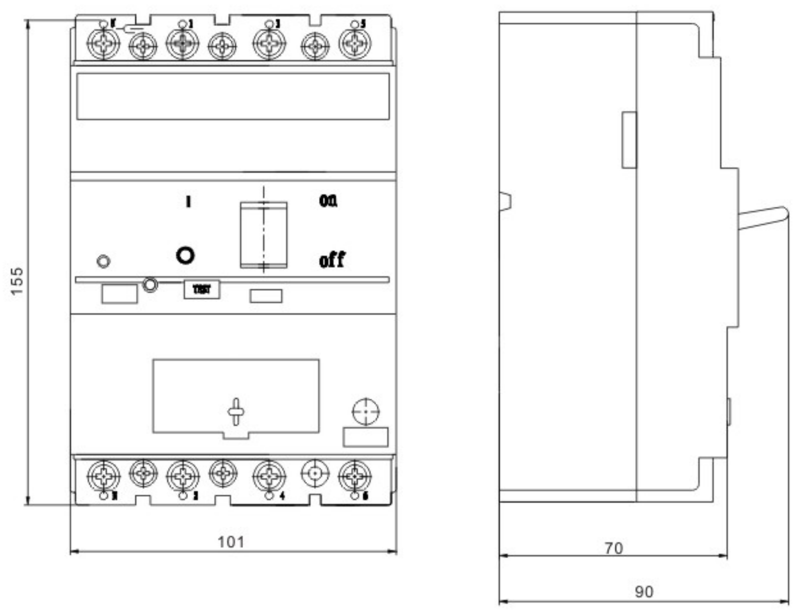
Table 10

Rated residual operation current	Initial pre-alarm current	Delay time s	Max. Output current of optical coupler	Max. working voltage of optical coupler
I△n	0.5I△n	0,10,30	50mA	20V DC

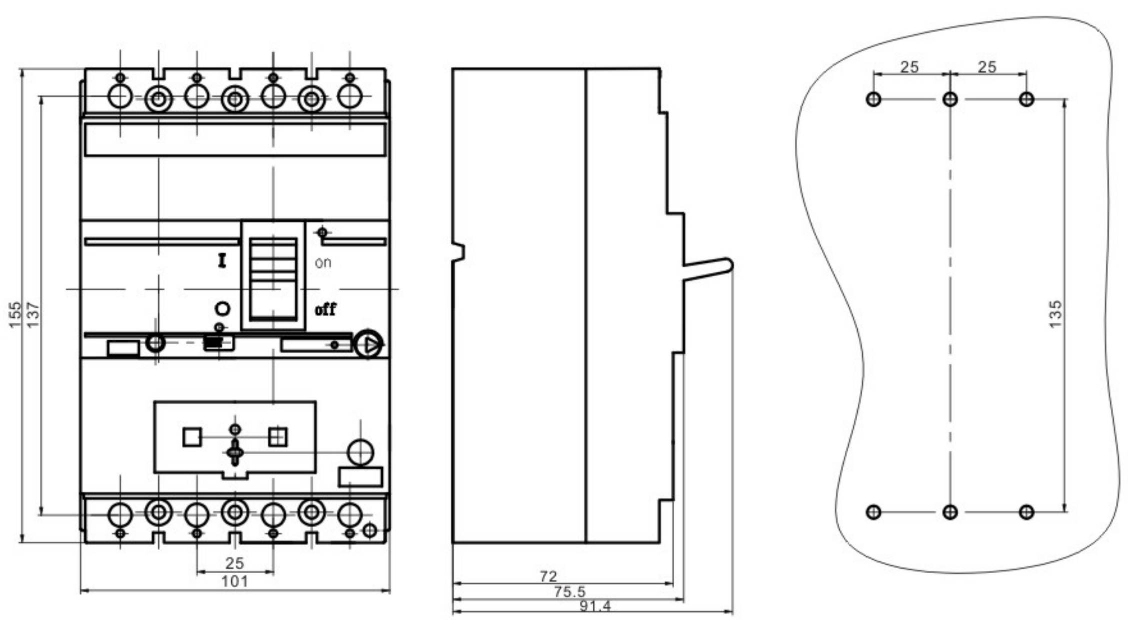
MCCB
MCCB accessory
MCB

Outline dimension for ELCB

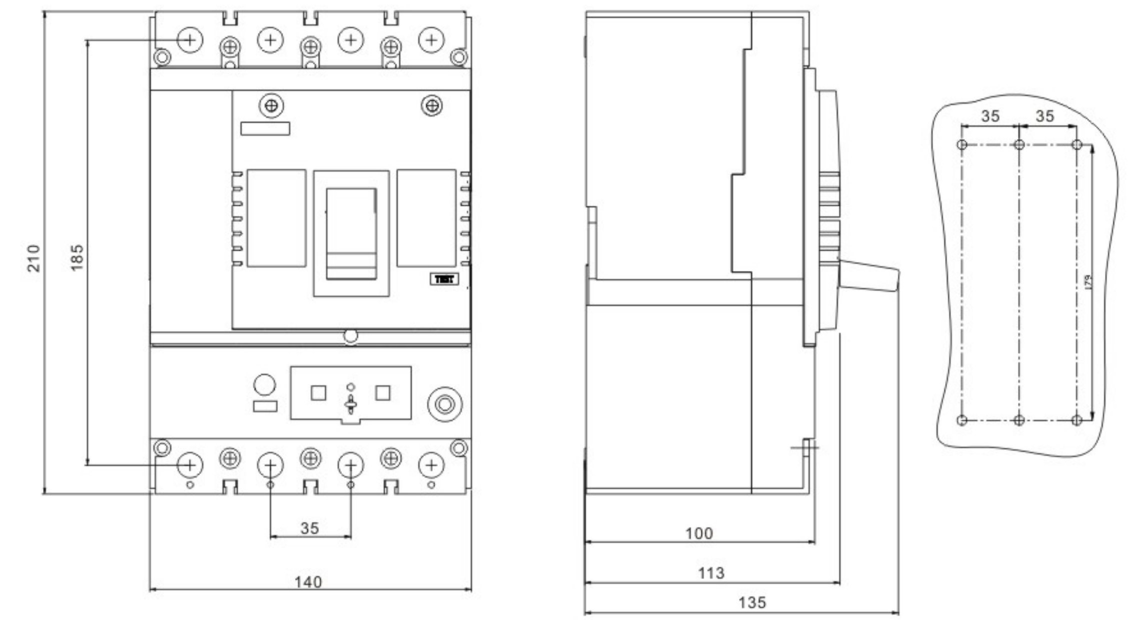
DAM1-125L



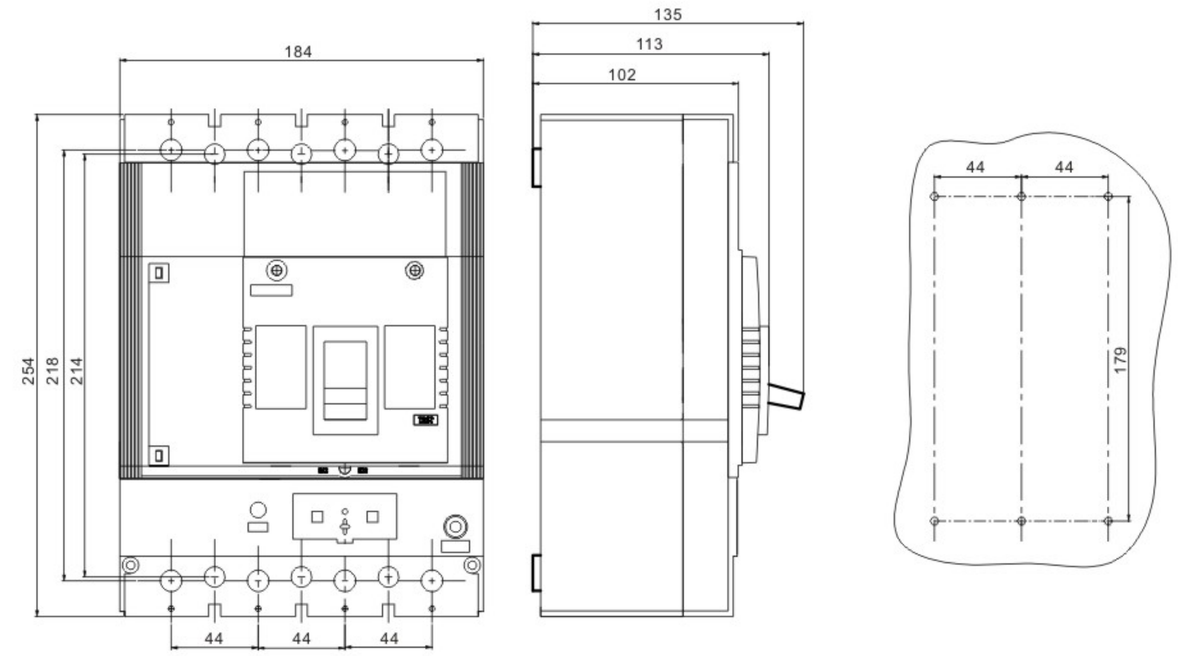
DAM1-160L



DAM1-250L

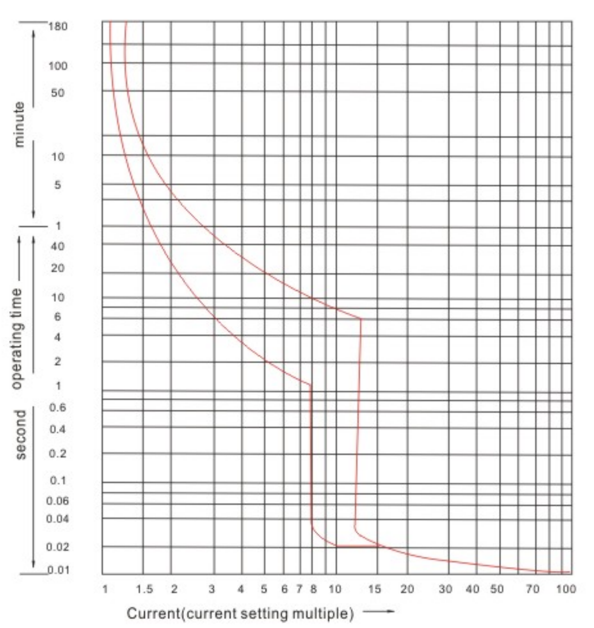


DAM1-630L

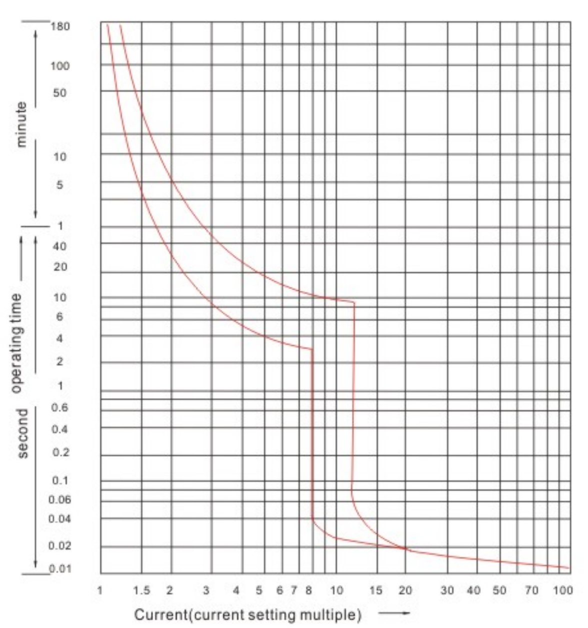


Protective Curve

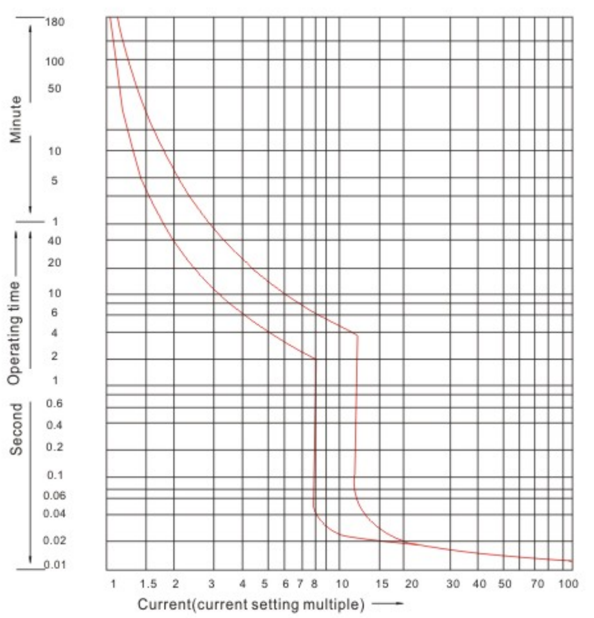
DAM1-125L



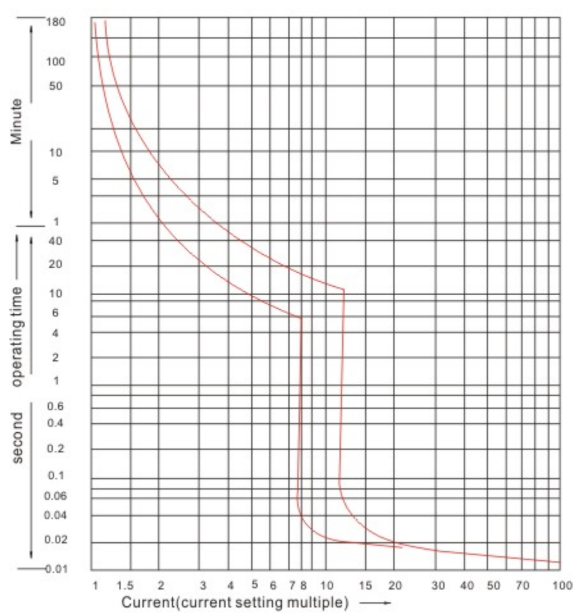
DAM1-160L



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

Table 11

The name of test item	Multiple	Conventional time h for power distribution protection			Conventional time h for indirectly motor protection	Initial state
		In≤63A	63A<In≤63A	In>250A		
Conventional non-tripping current	1.05	≥1	≥2		≥2	Cold state
Conventional tripping current	1.20				<2	Heat state
	1.30	<1	<2			
	1.5				≤4min	
	7.2				4s<Tc≤10s	Cold state
Backward character time	3.00	≥5s	≥8s	≥12s		Cold state

Conventional operation time of (1.05~7.2) In

Table 12

Name of test project	I/Ir1	Operation time Tc s for power distribution protection	Operation time Tc s for indirect motor protection
Conventional non-tripping current	1.05	>2h Non-operation	>2h Non-operation
Conventional tripping current	1.2		<1h Operation
	1.3	<1h Operation	
	1.5	≤4min	≤4min
	7.2		4s<Tc≤10s
Backward character time	3.00	12s	

Note: 1) The setting value (6ir1.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

Table 13

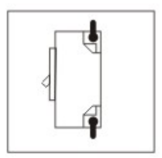
Operation time s	0.1	0.2	0.3	0.4
Backward time s	0.06	0.14	0.23	0.35

Installment is convenient.

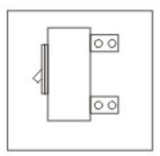
DAM1 series circuit breaker provide with several installment type.

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

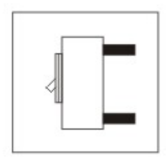
The main circuit of breaker has several connecticn mode.



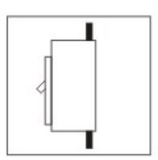
Connect wire in front of board



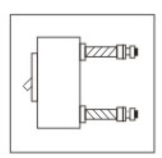
Connect wire vertically behind board



Connect wire horizontally behind board



Connect wire in front of extended board



Connect wire with screw behind board

Technical parameter and Installation

Rated current of frame size Inm(A)	Fixed version			Plug–in version		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	—	■	■	—	—	■	■

Note: The L Series leakage circuit only has 4 poles

Fixed type

Plug-in version

125A

160A

250A

400A
(3P front termina ls)

400A
(4P front termina ls)

Draw-out version

630A
(3P Rear terminals)

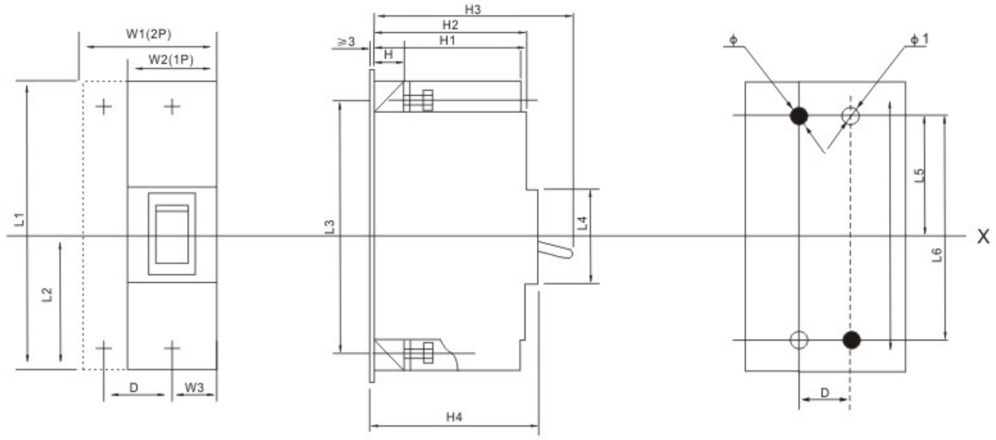
800A
(3P Rear terminals)

800A
(4P Rear terminals)

1600A(1250A)

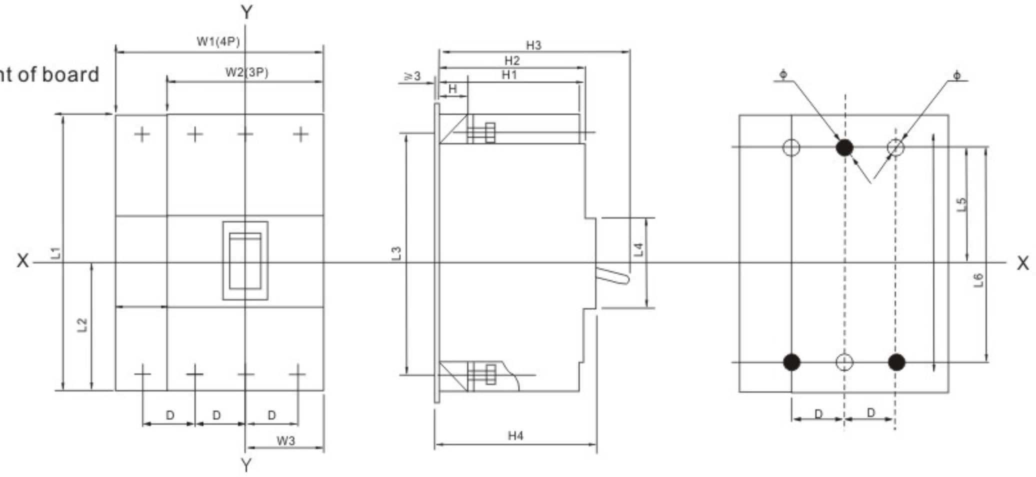
Overall and installation size

Fixed type
DAM1-160~200(L)
Connect wire in front of board



Type	D	L1	L2	L3	L4	L5	L6	W1	W2	W3	H	H1	H2	H3	H4	ϕ	ϕ1
DAM1-160/1P	—	120	48	102	45	62	102	—	30	15	27.5	67.5	70	91	75	4.5	3.5
DAM1-200/2P	30	120	48	102	45	62	102	60	—	15	27.5	67.5	70	93	75	4.5	3.5
DAM1-200L/2P	30	155	83	135	45	62	135	60	—	15	27.5	67.5	70	93	75	4.5	3.5

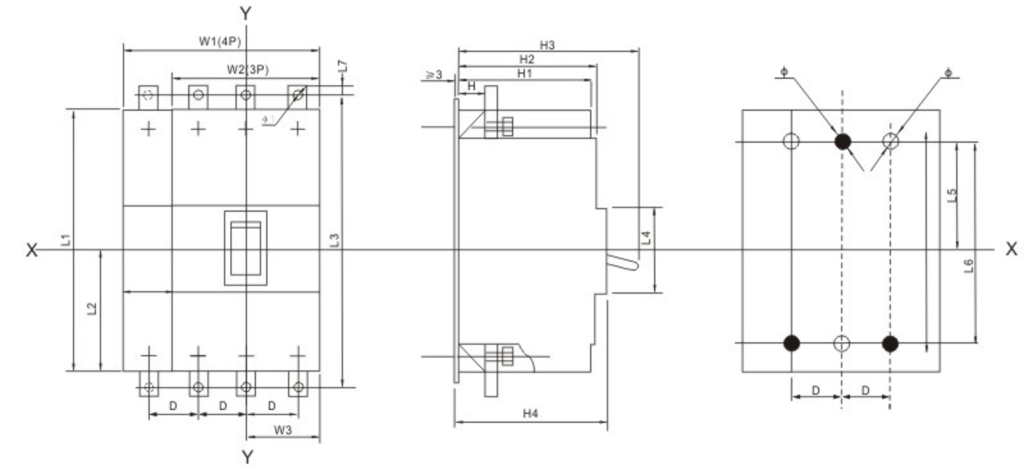
Fixed type
DAM1-63~160(L)
DAM1×-160
Connect wire in front of board



Type	D	L1	L2	L3	L4	L5	L6	W1	W2	H	H1	H2	H3	H4	ϕ
DAM1-63/125	25	12 0	48	102	45	62	102	101	76	25.5	67.5	70	91	75	4.5
DAM1-63/125L	25	155	83	135	45	62	135	101	—	25.5	67.5	70	91	75	4.5
DAM1-160	30	120	48	102	45	62	102	120	90	27.5	67.5	70	93	75	4.5
DAM1×-160	30	120	48	102	45	62	102	120	90	27.5	67.5	70	93	75	4.5
DAM1-160L	30	155	83	135	45	62	135	120	—	27.5	67.5	70	93	75	4.5

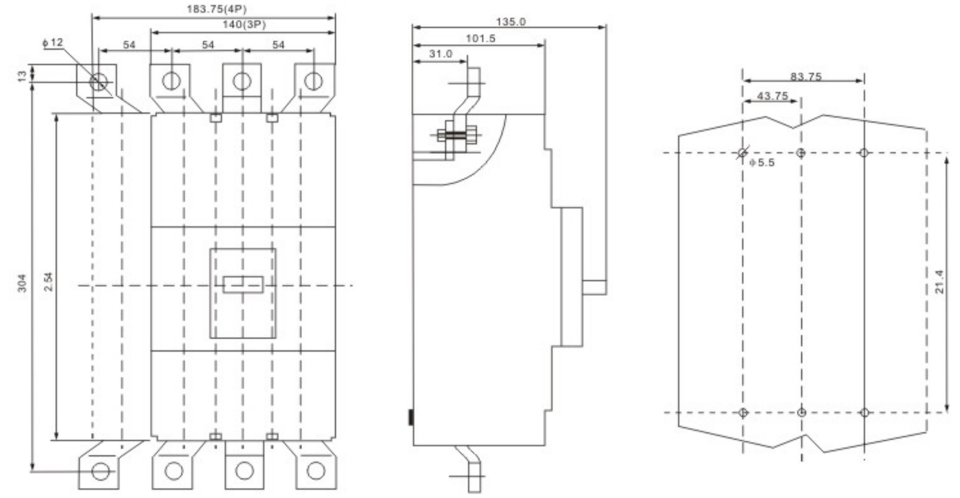
Overall and installation size

Fixed type
DAM1-250~1600
DAM1-250~630L
DAM1X-250~800
Connect wire in front of board



Type	D	L1	L2	L3	L4	L5	L6	W1	W2	H	H1	H2	H3	H4	ϕ	L7	ϕ1
DAM1-250	35	170	87.25	206	105	73.75	139	140	105	25	101.5	103.5	135	113	5.5	10.8	ϕ8.5
DAM1-250L	35	210	112.5	246	105	73.75	179	140	—	25	101.5	103.5	135	113	5.5	10.8	ϕ8.5
DAM1×-250	35	255	87.25	278.5	105	154.5	224	140	105	25	101.5	103.5	135	113	5.5	10.8	ϕ8.5
DAM1×-400	43.75	339	125.25	366	105	192.5	299	140	183.75	25	101.5	103.5	135	113	5.5	12.0	ϕ10.5
DAM1-630(400A)	43.75	254	125.25	281	105	107.25	214	040	183.75	25	101.5	103.5	135	113	5.5	12.0	ϕ14
DAM1-630L(400L)	43.75	254	117.5	281	105	107.25	214	183.75	—	25	101.5	103.5	135	113	5.5	12.0	ϕ10.5
DAM1-800	70	268	142.75	241	105	109.25	237	280	210	23	101.5	103.5	167.5	115	5.5	10.0	ϕ11
DAM1×-800	70	406	142.75	479	105	256.5	375	280	210	23	101.5	103.5	167.5	115	5.5	10.0	ϕ11
DAM1-1600	70	406	189	513	105	203	378	280	210	39	137	138.5	204.5	152	5.5	13.5	ϕ11

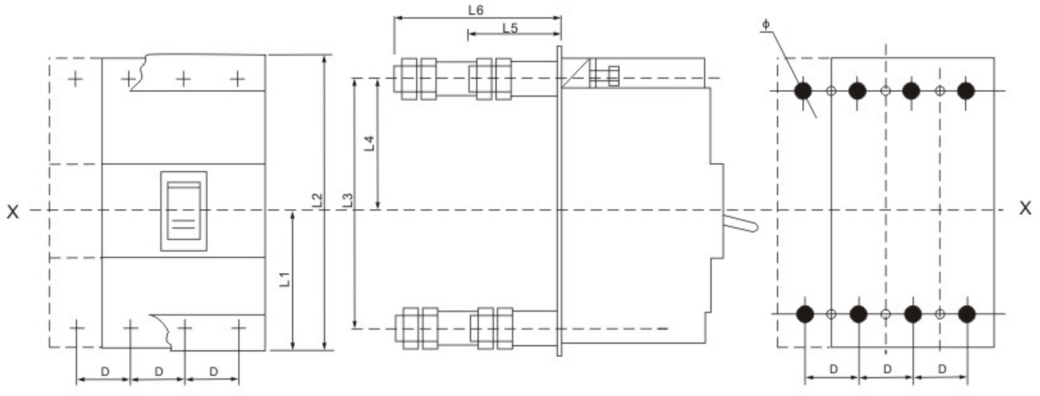
Fixed type
DAM1-630(500A、630A)
Connect wire in front of board



Overall and installation size

Fixed type

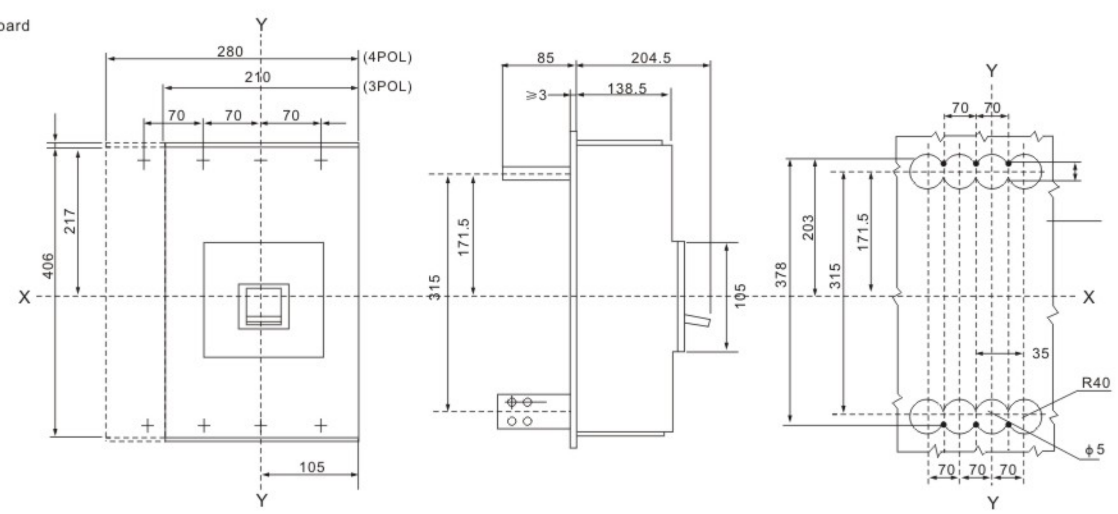
DAM1-63~800
DAM1-60~630L
DAM1×-160~630
Connect wire behind board



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

Fixed type

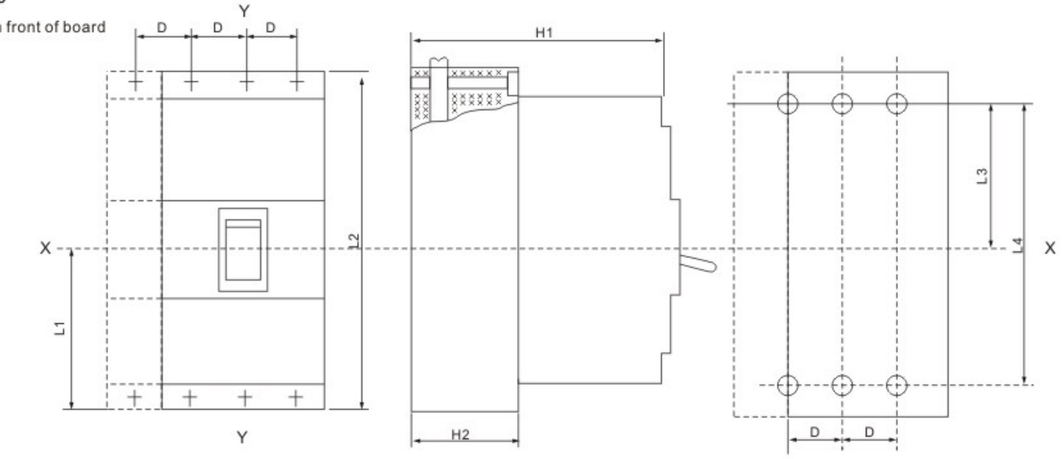
DAM1H-1600
Connect wire behind board



Overall and installation size

Plug-in version

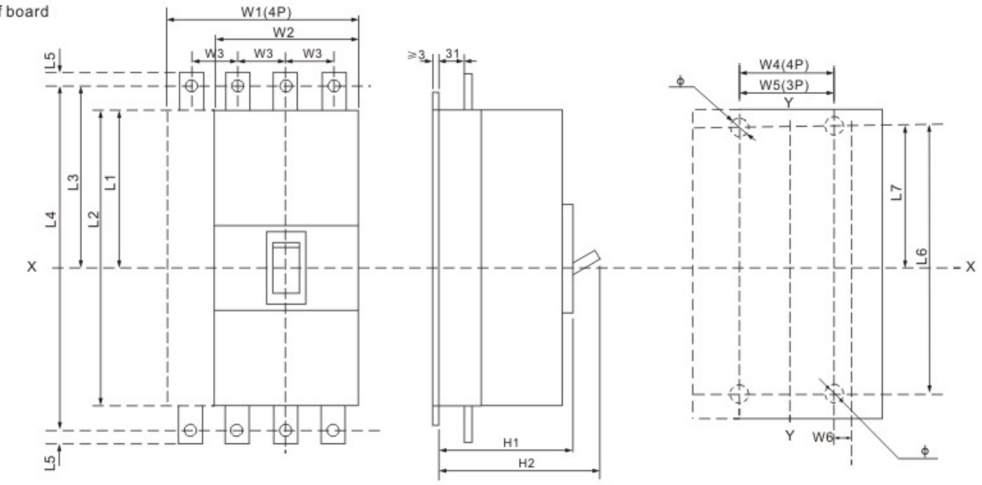
DAM1-63~160
DAM1X-160
Connect wire in front of board



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

Plug-in version

DAM1-250~630
DAM1-630L(400L)
Connect wire in front of board

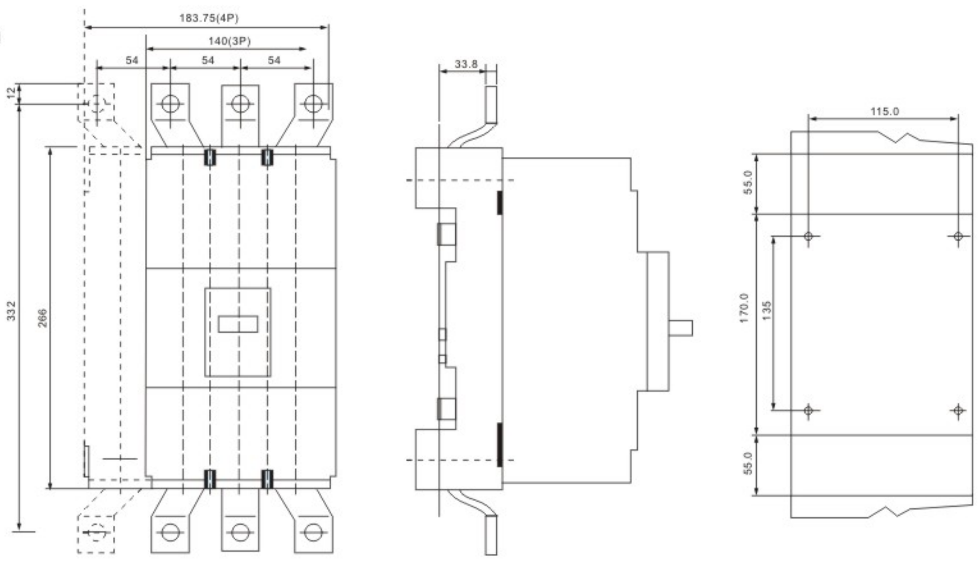


Type	L1	L2	L3	L4	L5	L6	L7	W1	W2	W3	W4	W5	W6	H1	H2	ϕ
DAM1-250	89.75	175	107.25	210	10	52.25	100	140	105	35	105	70	25	153	184.5	5
DAM1-630(400)	127.75	259	150.75	305	14	65.75	135	183.75	140	43.75	160	115	58	153	184.5	6
DAM1-630L(400L)	127.75	259	150.75	305	14	65.75	135	183.75	140	43.75	160	115	58	153	184.5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

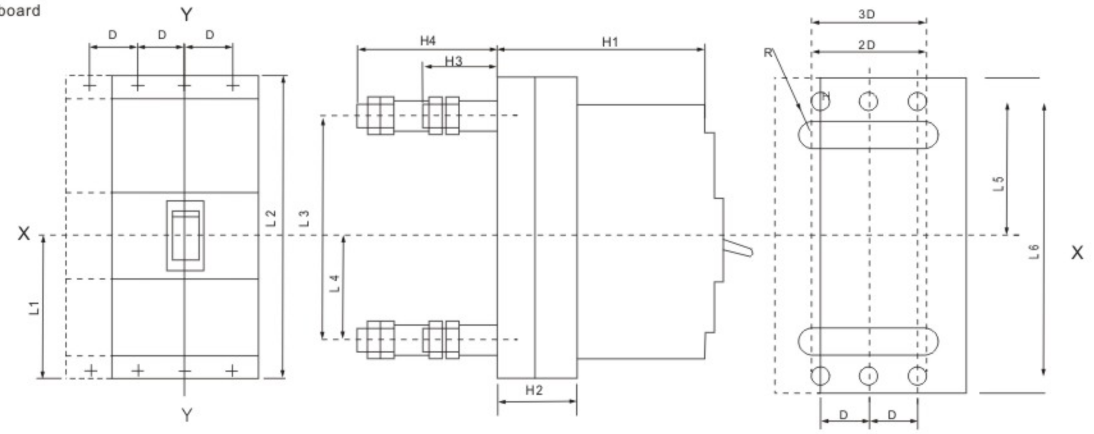
MCCB
MCCB accessory
MCB

Overall and installation size

Plug-in version
DAM1-630
Connect wire in front of board



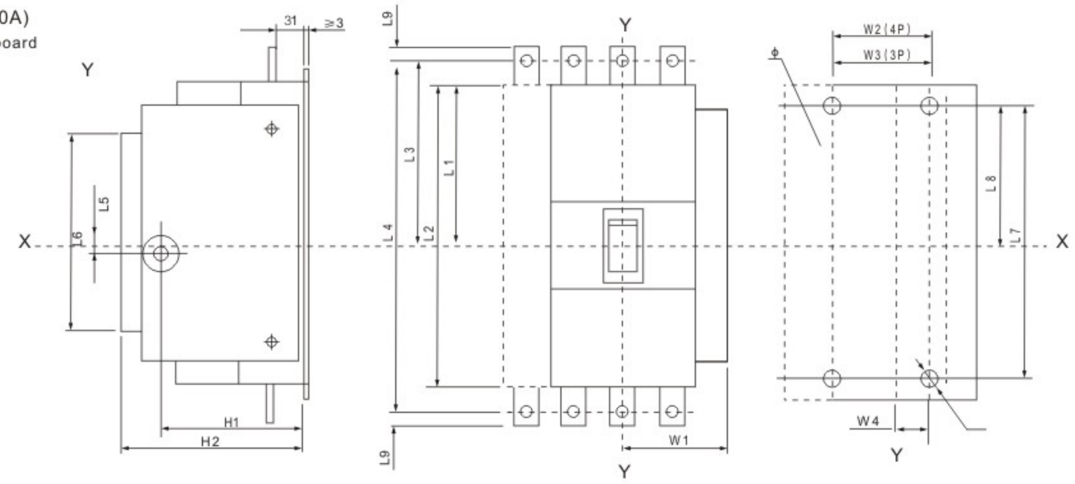
Plug-in version
DAM1-630(500A、630A)
Connect wire behind board



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

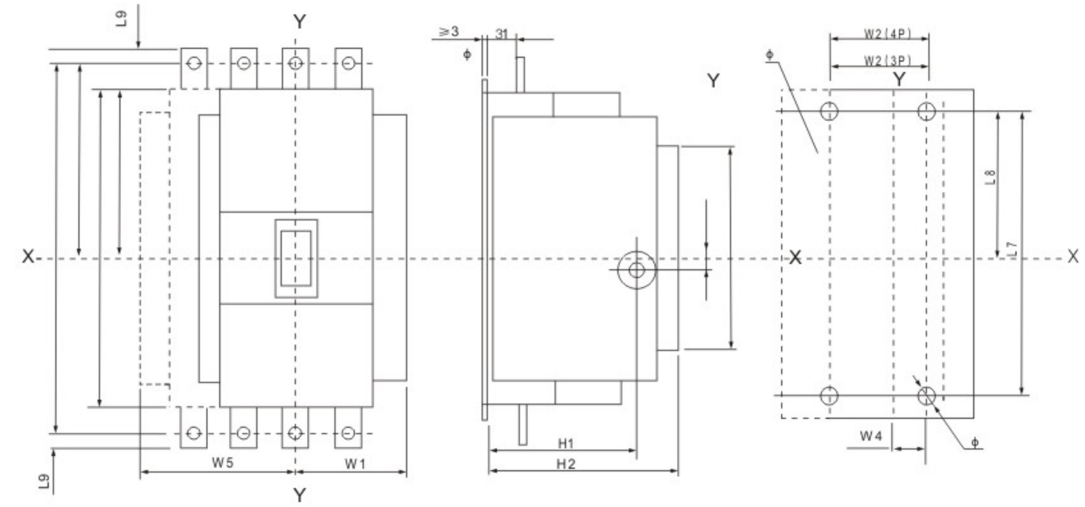
Overall and installation size

Draw-out version
DAM1-630(500A、630A)
Connect wire in front of board



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

Draw-out version
Connect wire in front of board

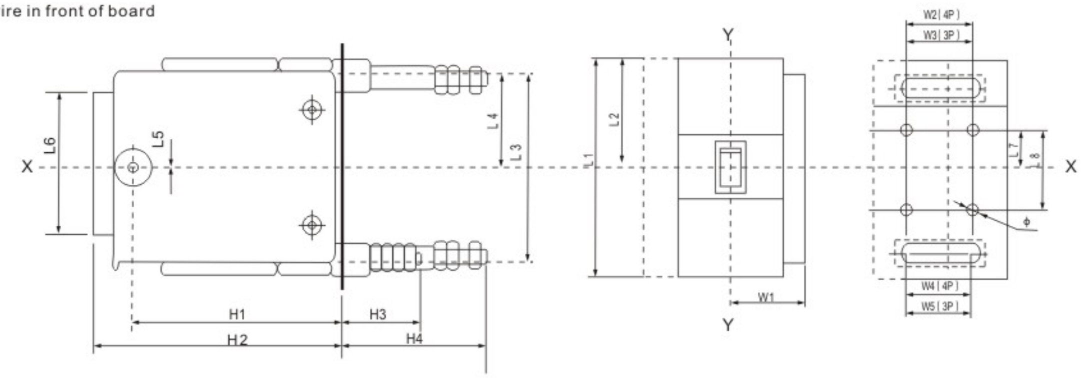


Type	L1	L2	L3	L4	L5	L6	L7	L8	L9	W1	W2	W3	W4	W5	H1	H2	ϕ
DAM1-800	133	295	158	345	14.5	140	45.5	120	20	136.5	210	210	140	193.5	167	190	8.5
DAM1-1600	211.25	406	268.25	520	8.25	140	68.25	120	–	136.5	210	210	140	193.5	218.5	241.5	8.5

Overall and installation size

Draw-out version

Connect wire in front of board

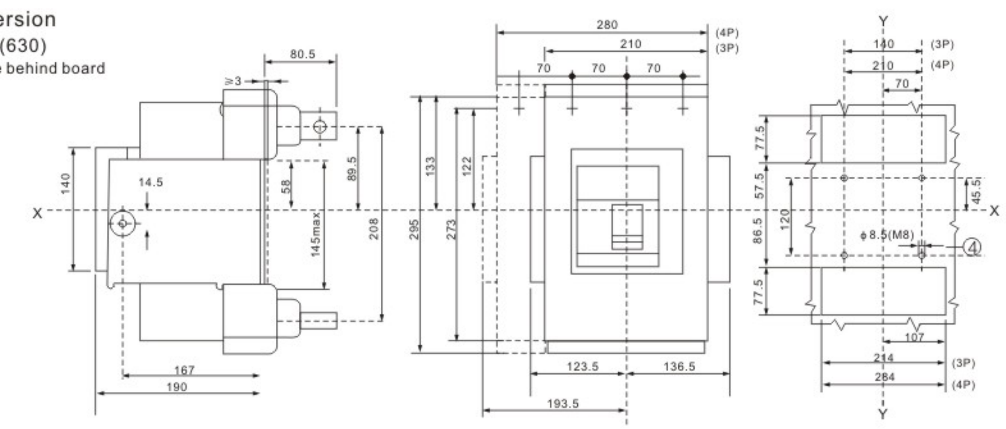


Type	L1	L2	L3	L4	L5	L6	L7	L8	W1	W2	W3	W4	W5	H1	H2	H3	H4	ϕ
DAM1–250	175	87.75	143	73.75	1.75	105	52.25	100	84	105	70	70	105	167	190	52	96	5
DAM1X–250	175	87.75	143	73.75	1.75	105	52.25	100	84	105	70	70	105	167	190	52	96	6
DAM1X–400	259	127.75	218	107.25	1.75	105	65.75	135	101.5	160	115	87.5	131.25	167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

Plug-in version

DAM1-800(630)

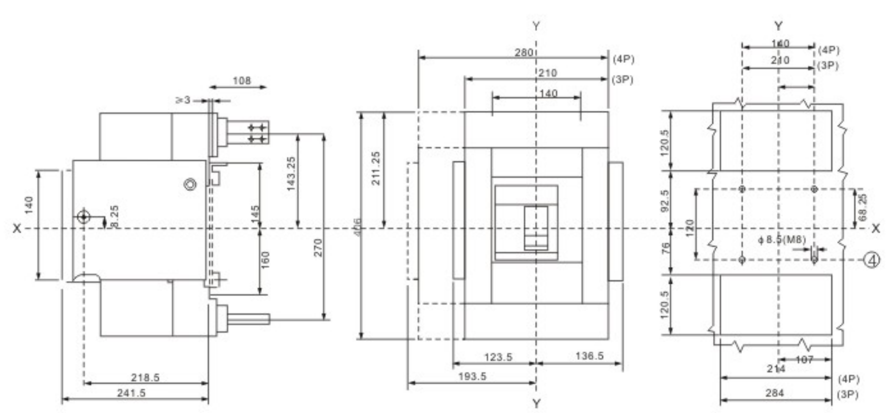
Connect wire behind board



Plug-in version

DAM1-1600(1250)

Connect wire behind board



Electical operating mechanism

1. The electrical operating mechanism is available remote close of MCCB.
2. The types of electrical operating mechanism are shown in table15.

Table 15

Rated current of frame sizeInm(A)	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

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: ①Inm=250A ②Inm=400A

   The specific type should be stated clearly in your order
5. Selectable accessories.

Action Characteristic

Table 16

Electrical accessories				Electrical operating mechanism	
Range of supply Voltage				(0.85–1.1)×Us	
Rated control supply voltge	Power supply	AC 50Hz		220V	380V
		Power loss	Irrupt power consumption	510VA	510VA
			Normal loss	360VA	360VA
		DC		110VA	220VA
		Power loss	Irrupt power consumption	510VA	510VA
			Normal loss	360VA	360VA
Closing time				0.1s	
Opening time				0.1s	

CD2 Type Electical operating mechanism

1. Direct-acting,and manual clse/open of MCCB.
2. Suitable for MCCBs:
   ①Inm=63A
   ②Inm=100A
   ③Inm=160A

   The specific type should be stated clearly in your order.
3. Selectable accessories.

Table 17

Electrical accessories				Electrical operating mechanism	
Range of supply Voltage				(0.85-1.1)×Us	
Rated control supply voltage	Power supply	AC 50Hz		220V	380V
		Power loss	Irrupt power loss	220VA	200VA
			Normal power loss	110VA	110VA
		DC		110V	220V
		Power loss	Irrupt power loss	200W	200W
			Normal power loss	110W	110W
Closing time				0.1s	
Opening time				0.1s	

CD3 Type Energy stored electical operatirng mechanism

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 Inm=1600A

   The specific type should be stated clearly in your order
8. Selectable accessories.

Action Characteristic

Table 18

Electrical accessories				Electrical operating mechanism	
Range of supply Voltage				(0.85-1.1)×Us	
Rated control supply voltage	Power supply			220V	380V
		Power loss	Irrupt power loss	660VA	660VA
			Normal power loss	180VA	180VA
		DC		110V	220V
		Power loss	Irrupt power loss	600W	600W
			Normal power loss	180W	180W
Closing time				0.1s	
Opening time				0.3s	

Rotary handle operating mechanism

1. The rotary handle operating mechanism is sultable for:
   ①Closing and openting of MCCB by the rotary handle on MCCB.
   ②Closing and opening of MCCB by the rotary handle on thecompartment door of switch board;
   ③Interlocking 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

Table 19

Rated current of frame size Imn	On MCCB		On cormpartment door (selection: Handle+Mechanism)							
			Handle				Operation mechanism			
	CS2	CS2/L	A type (Round)		B type (Square)		CS1(central)		CS1(Eccentric)	
		With interlock	A-1 Short handle	A-2 Long handle	F1-1 Short handle	F-2 Long handle				
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

FCSS2-63~160　FCSS-250~400　FCSS-630~1600

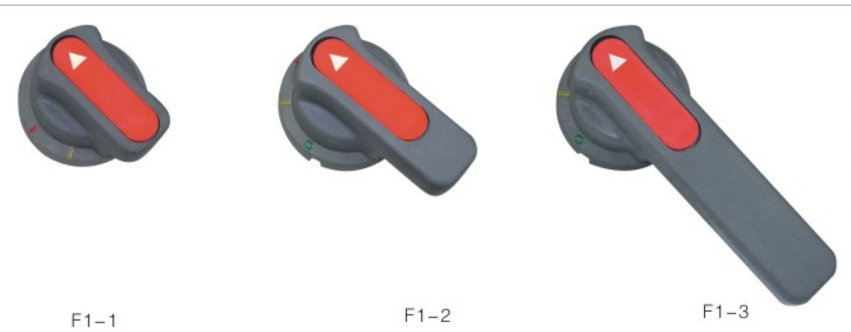
1. Eccentric structure.
2. Mounted on MCCB.
3. Fitted with A type or F type handle.
4. Interlock with compartment door.
5. Selectable accessories.

CS2 Rotary handle operating mechanism

FCSS2-250~400　FCSS2-630~1600

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

A type handle



F1-1　F1-2　F1-3

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

A1-1

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.

F1-4

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.

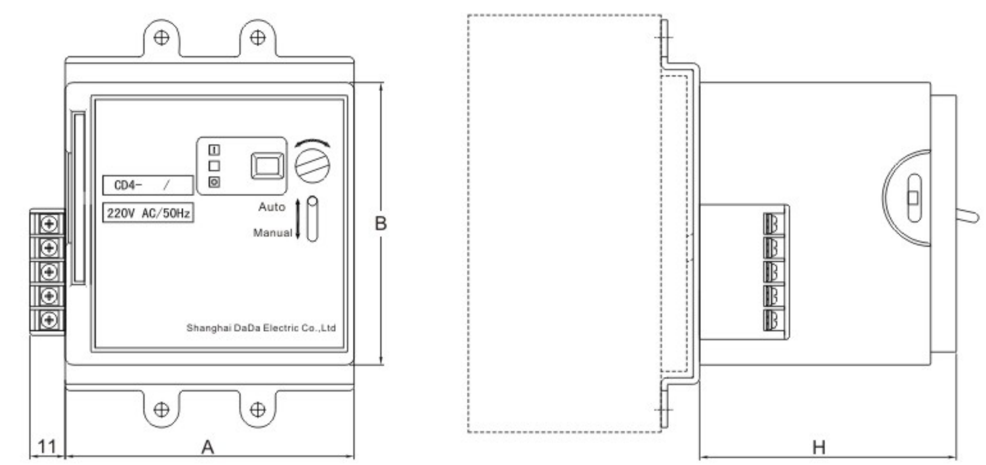
Motor-driven mechanism

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.

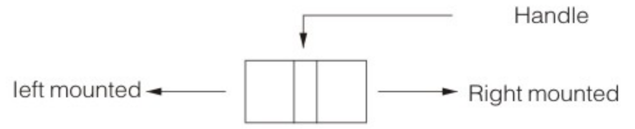
Main technical parameters

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



Specification	Apply to circuit-breaker models	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



□ Alarm contact
■ Auxiliary contact
● Shunt release
○ Under-voltage release
→ Line direction leaded

Table 2

Accessories code	Accessories name	Type: DAM1-63-1250 DAM1L-63-400
208、308	Alarm contact	□
210、310	Shunt release	●
220、320	Auxillary contact	■
230、330	Under voltage release	○
240、340	Shunt release, auxiliary contact	● ■
250、350	Shunt release, Under voltage release	
260、360	Two groups of auxiliary contact	■
270、370	Auxiliary contact, Under voltage release	● ■
218、318	Shunt release,Alarm contact	● □
228、328	Auxiliary contact, Alarm contact	■□
238、338	Under voltage release,alarm contact	○ □
248、348	Shunt release, auxiliary contact, alarm contact	● ■□
268、368	Two groups of auxiliary contact, alarm contact	
278、378	Auxiliary contact,Under voltage release,alarm contact	○ □■

Inner accessory

Shunt release series

Shunt release application:

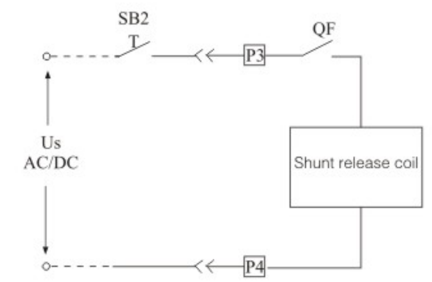
The shunt release is intended for remote controlling of open of MCCB Release instantaneous duty.

Characteristics of Shunt release:

Electrical accessories			Shunt release	
Range of supply voltage			(0.7−1.1)×Us	
Rated control supply voltage us	Power supply	AC 50Hz	220V	380V
		Power loss	150VA	150VA
		DC	110V	220V
		Power loss	150W	150W

Wiring diagram of Shunt release:

SB2−OPening Push−putton(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.



Apply to DAM1 models	DAM1−125	DAM1−160	DAM1−250	DAM1−400	DAM1−800	DAM1−1600
Shunt release	125/160FT		250/400FT		800/1600FT	

Under Voltage release series

Under voltage release application:

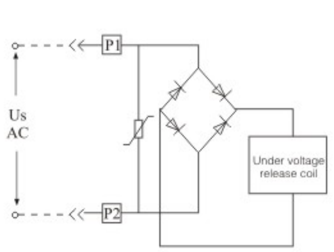
The under voltage release is intended for under voltage protection of circuit and electric equipment. Release uninterrupted duty.

Characteristics of Under voltage release:

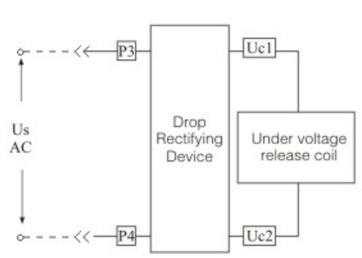
Ue(V)Rated operational voltage	AC380	AC220	DC110	DC220
Oprational voltage	(0.35–0.7)×Ue			
Ensured closing voltage	(0.85–1.1)×Ue			
Ensured non closing voltage	≤0.35Ue			
Power loss	10VA		4W	

Wiring diagram of Under voltage release:

Us–Control Power
P1,P2–Teminal number
63A–1600A Embeded



Uc1,Uc2–Terminal number
63A–1600A Attached



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

Apply to DAM1 models	DAM1–125	DAM1–160	DAM1–250	DAM1–400	DAM1–800	DAM1–1600
Under voltage release series	125/160QT		250/400QT		800/1600QT	

Auxiliary contacts series

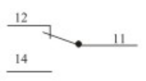
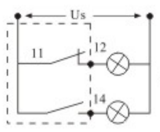
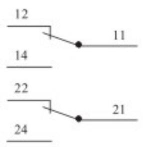
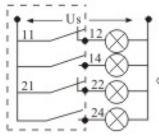
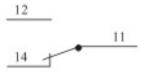
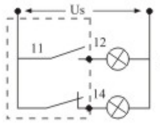
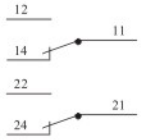
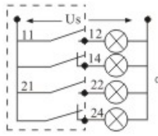
Auxiliary contacts application:

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.

Auxiliary contacts size:

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

Wiring diagram of Auxiliary contacts:

State of MCCB	State of auxiliary contacts		diagram of wiring
Close position	◆ 1 set of auxiliary contacts,but 2 sets of contacts to be supplied ◆ For Inm=63A~225A		 closeing state
	◆ 2 sets of auxiliary contacts,but 4 sets of contacts to be supplied ◆ For Inm=250A~1600A		 opening state
Open position	◆ 1 sets of auxiliary contacts,but 2 sets of contacts to be supplied ◆ For Inm=63A~225A		 closeing state
	◆ 2 sets of auxiliary contacts,but 4 sets of contacts to be supplied ◆ For Inm=250A~1600A		 opening state

Apply to DAM1 models	DAM1–125	DAM1–160	DAM1–250	DAM1–400	DAM1–800	DAM1–1600
Auxiliary contact	125/160FC		250/400FC		800/1600FC	

Alarm contacts series

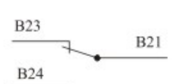
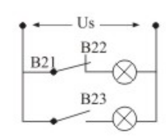
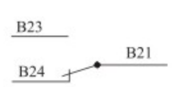
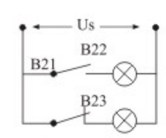
Alarm contacts application:

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

Alarm contacts size:

1)1N/O and 1N/C

Wiring diagram of Alarm contacts;

State of MCCB	State of alarm contacts	diagram of wiring
Close position		
Open position		

Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
Alarm contact	125/160BC		250/400BC		800/1600BC	

Auxiliary and alarm contacts series

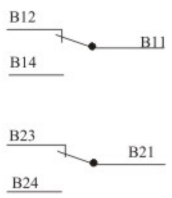
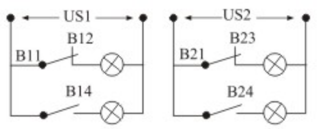
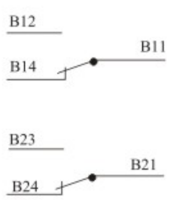
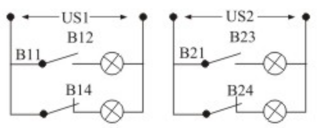
Auxiliary and alarm contacts application:

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:

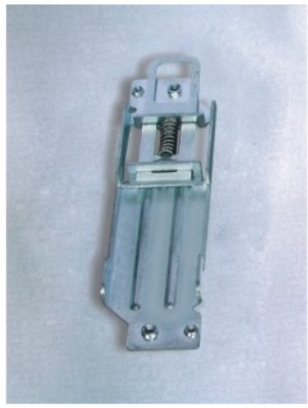
1).1N/O and 1N/C+1 alarm contacts
2).2N/O and 2N/C+1 alarm contacts

Wiring diagram of Auxiliary and alarm contacts:

State of MCCB	State of alarm contacts	diagram of wiring
Close position		 Explanation:Us1 is auxiliary power Us2 is alarm power
Open position		 Explanation:Us1 is auxiliary power Us2 is alarm power

Apply to DAM1 models	DAM1-125	DAM1-160	DAM1-250	DAM1-400	DAM1-800	DAM1-1600
Auxiliary and alarm contact	125/160FC+BC		250/400FC+BC		800/1600FC+BC	

Standard Guide rail mounting frame

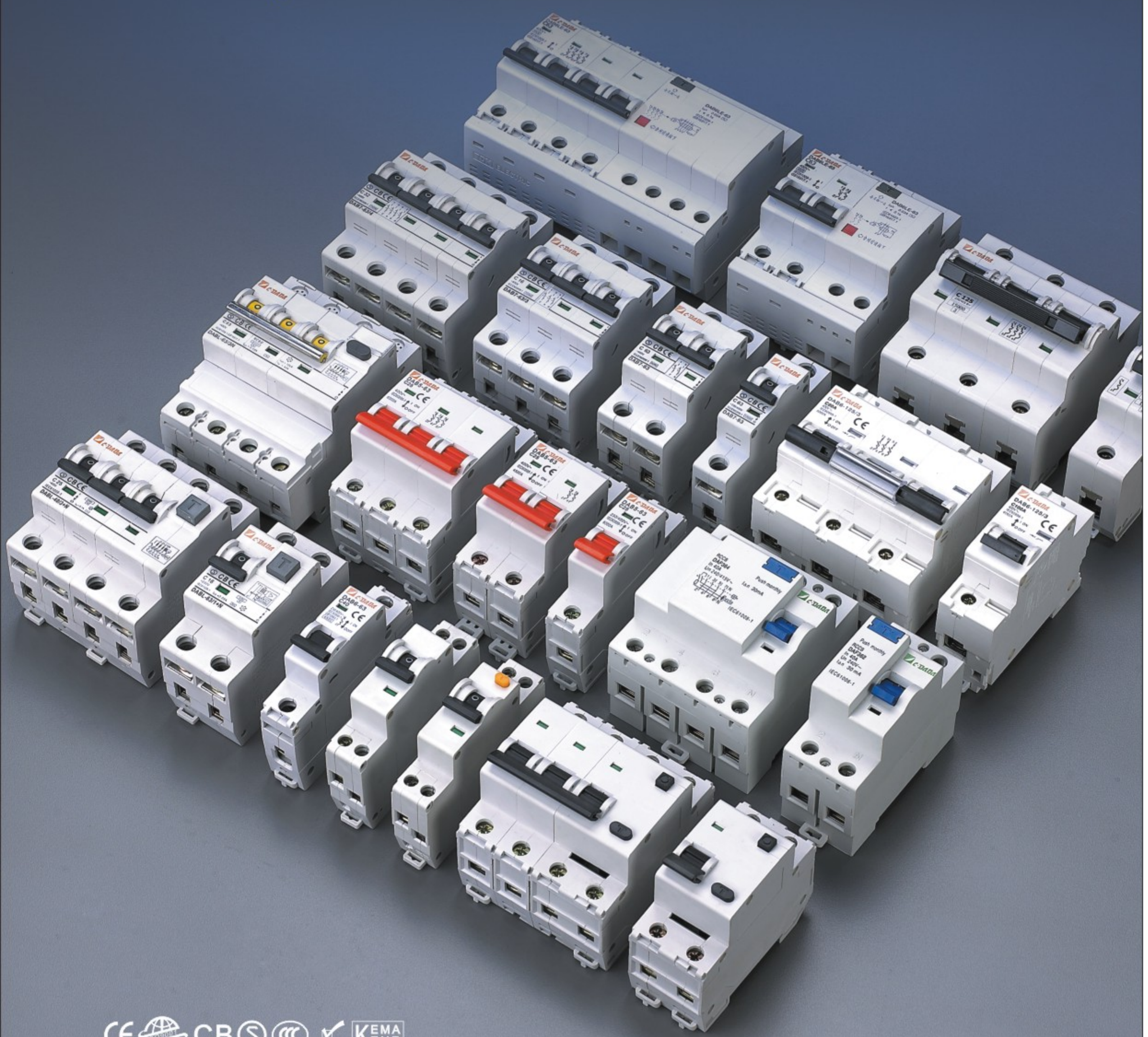


DAM1(ABB) 1P Guide rail mounting foame

DAM1(ABB)-125 3P Guide rail mounting foame

DAM1(ABB)-160 3P Guide rail mounting foame

MCB



DAB7-63 MCB Miniature Circuit Breaker

Applicable scope

DAB7–63series 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 ofcontactor, switchgear and electic apparatus.

Type and specification

DA B 7 – 63 N/H

- N type 6KA
- H type 10KA
- N/H: Casing frame class rated current (63)
- 7: Design serial number
- B: MCB
- DA: Company code

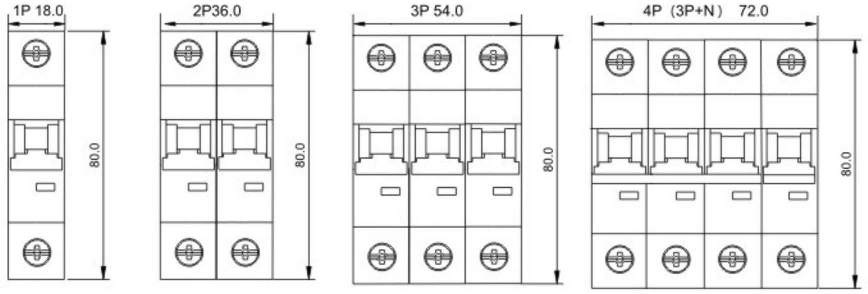
Technical parameter

Conform to standard:	IEC60898, GB10963
Rated voltage (Ue):	230V/400V, 50HZ
N type:	6KA
H type:	10KA
Selective grade:	3
Enclosed protection class:	IP40 (Under mounting)
Life:Electrical:	not less of 8,000 times switching operation
Mechanical :	not less of 20,000 times switching operation

Machinery parameter

The length of exposed plane:	45mm
Enclosure height:	80mm
Enclosure width:	17.5mm per pole (single pole)
MoUnting manner:	Adopt conduct rail of 35mm of IEC standard
Terminaf shape:	Two–function terminalcan connectwith busbar and soft or hard conducting wire
Terminal block capacity:	CondUcting wire 1–25mm^2 Busbar thickness: 0.8–2mm

Mounting Size



MCCB
MCCB accessory
MCB

MCB DAB7-63

For protection of general power distribution(IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50~60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	6,10,16,20,25,32,40,50,63			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type	DAB7-63N		B/C/D			
	DAB7-63H		B/C/D			
Rated short circuit Icn(kA)	DAB7-63N		6			
	DAB7-63H		10			
Release type			Thermal magnetic type			
Service life (O~C)	Mechanical	Actual value	20000			
		Standard value	4000			
	Electrical	Actual value	8000			
		Standard value	4000			
Connection and installation						
Protectiom degree			IP20			
Wire		mm□	1~35			
Working temperature			-5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃, ≤90%; +40℃, ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ, Class Ⅲ			
Mounting			DIN35 rail			
Combination with accessories						
Auxiliary contact			Yes			
Alarm contact			Yes			
Shunt release			Yes			
Undervoltage release			Yes			
Auxiliary contact+Alarm contact			Yes			
Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80	80	80	80
		c	72	72	72	72

Release characteristic type

B features
applied to faster release and the circuit breaker have smaff short current as well as allows through maximum current<3In

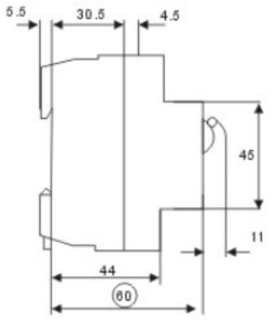
C features
applied to most electric loop, it alfows load through higher short time peak current and circuit breaker no operation, but permit through peak current maximum is up to 5 In.

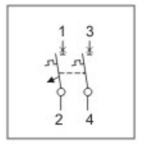
D features
were recommended to higher peak current (10In of switch device. For example, it used for protecting transformer one times line, magnetic value and motor start, etc.

2. Circuit breaker release characteristic(table2)

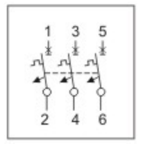
(table 2)

Trip type	Testing project	Tripping curve	Testing current I/In	Initiative state	Trip or no-trip time limit	Expected result	Ambient temperature +30℃
Thermal trip	a	B C D	1.13In	cold	t≥1h	no-trip	continue to test current within 5s steadily increase to expected value
	b	B C D	1.45In	continue test	t<1h	trip	
	c	B C D	2.55In	cold	1S<t<60S (In≤32A) 1S<t<120S (In>32A)	trip	
Magneric trip	d	B	3In	cold	t≥0.1h	no-trip	
		C	5In				
		D	10In				
	e	B	5In	cold	t<0.1h	trip	
		C	10In				
		D	20In				

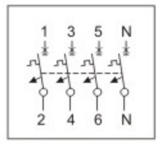




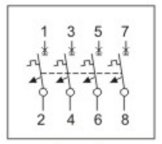
2 pole



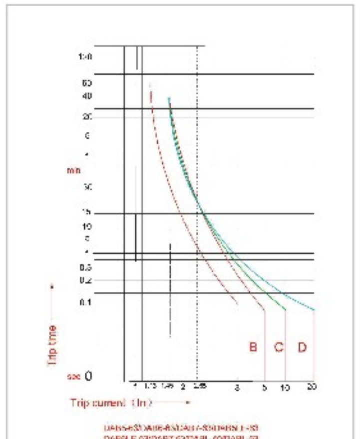
3 pole



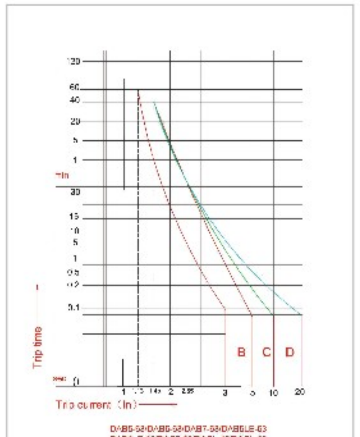
3 pole+centric line



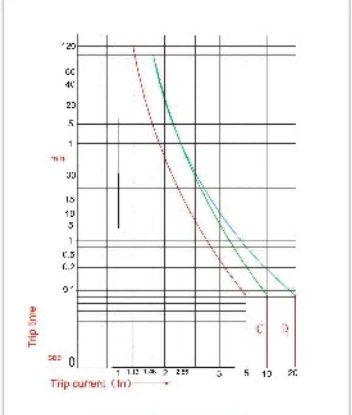
4 pole



2A-40A



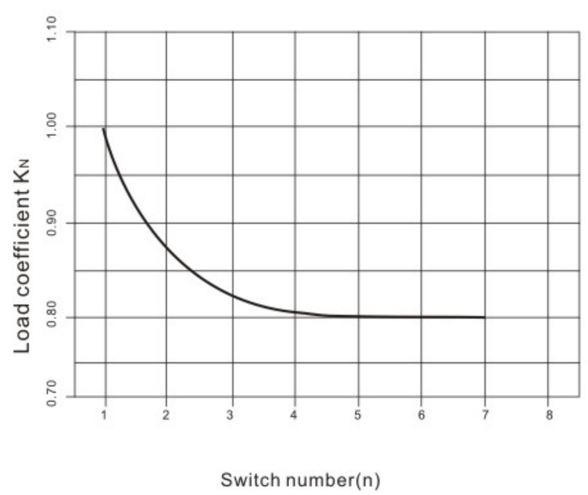
50A-63A



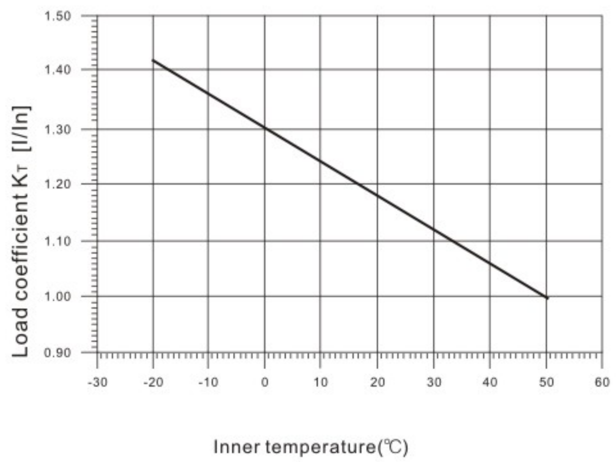
DAB8-63/DAB7-100/DAB7-125
80A-125A

Loading capacity

Suit for DAB7-63
Relative temperature with n breaker in work state the overload permitted.
IDL=InKT(T)KN(N)



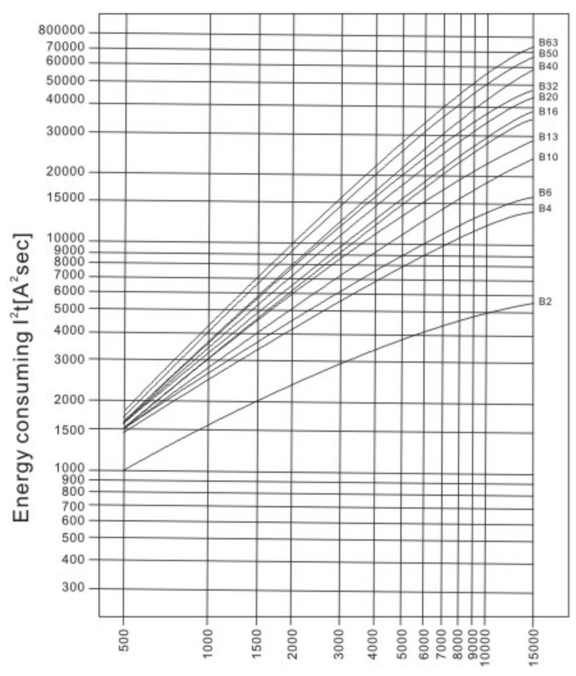
Load capacity of MCB



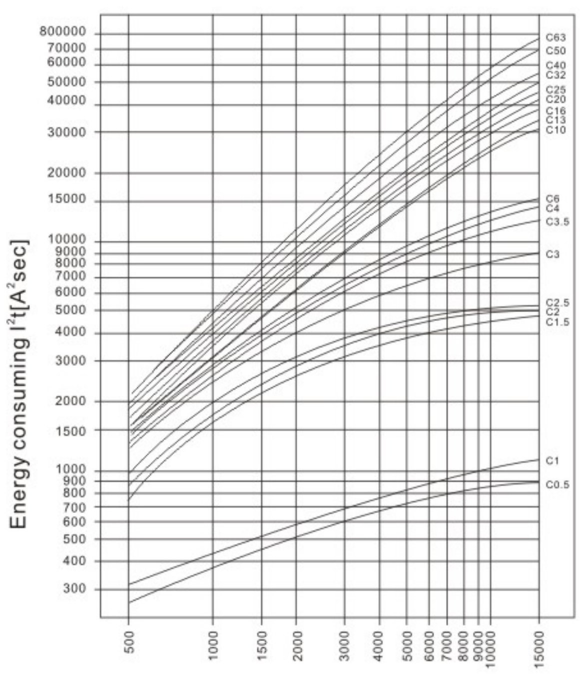
Temperature influence

Energy consuming

In accordance with electric standard EN60898(IEC898)
Supply D curves products according to requirements



DAB7-63 Series maximum energy consuming, B curve, single pole



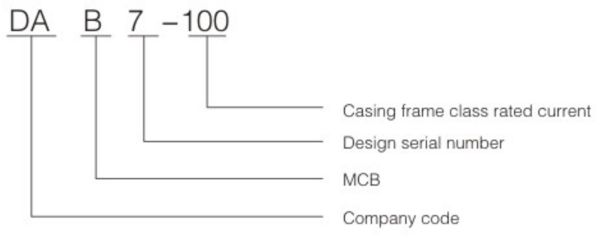
DAB7-63 Series maximum energy consuming, B curve, single pole

DAB7-100 MCB Miniature Circuit Breaker

Applicable scope

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 electic apparatus.

Type and specification



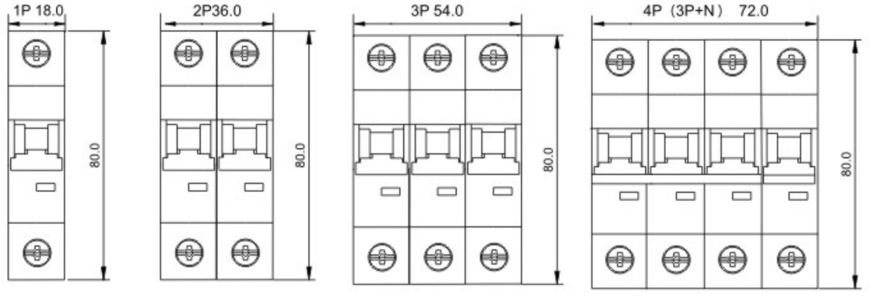
Technical parameter

Conform to standard:	IEC60898, GB10963
Rated voltage (Ue):	230V/400V, 50HZ
Rated short circuit Icn(kA):	6~63A 10KA , 80~100A 8KA
Selective grade:	3
Enclosed protection class:	IP40 (Under mounting)
Life:Electrical:	not less of 8,000 times switching operation
Mechanical :	not less of 20,000 times switching operation

Machinery parameter

The length of exposed plane:	45mm
Enclosure height:	80mm
Enclosure width:	17.5mm per pole (single pole)
MoUnting manner:	Adopt conduct rail of 35mm of IEC standard
Terminaf shape:	Two-function terminalcan connectwith busbar and soft or hard conducting wire
Terminal block capacity:	CondUcting wire 1~25mm² Busbar thickness: 0.8~2mm

Mounting Size



MCB DAB7-100

For protection of general power distribution (IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50–60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	6,10,16,20,25,32,40,50,63,80,100			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type	DAB7–100		B/C/D			
Rated short circuit Icn(kA)	DAB7–100		10KA(6~63A),8KA(80~100A)			
Release type			Thermal magnetic type			
Service life (O~C)	Mechanical	Actual value	20000			
		Standard value	4000			
	Electrical	Actual value	8000			
		Standard value	4000			
Connection and installation						
Protectiom degree			IP20			
Wire	mm²		1~35			
Working temperature			-5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ , Class Ⅲ			
Mounting			DIN35 rail			
Combination with accessories						
Auxiliary contact			Yes			
Alarm contact			Yes			
Shunt release			Yes			
Undervoltage release			Yes			
Auxiliary contact+Alarm contact			Yes			
Dimensions(mm) (WxHxL)		a	18	36	54	72
		b	80	80	80	80
		c	72	72	72	72

DAB7 Accessory

Use scope

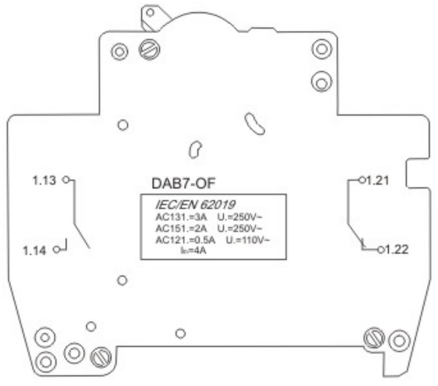
DA B7 – ☐ / ☐

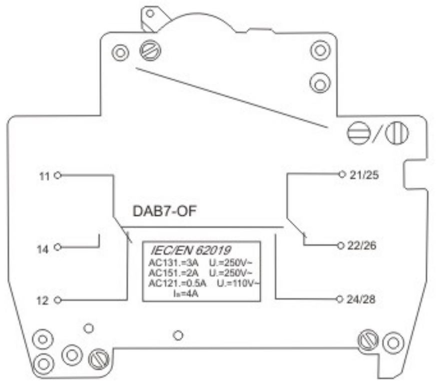
- Rated voltage
- Accessory code (OF–auxiliary contact, FB–auxiliary alarm contact, FL–shunt release QY–under–voltage release
- Design No.
- Company code

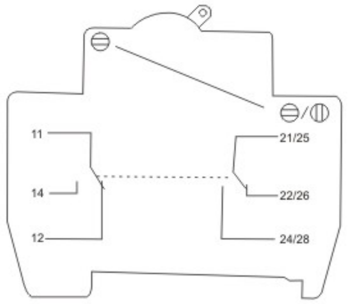
Installation and use

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, JDAB7–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.

Product line







DAB7-FB auxiliary alarm contactor

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 Technique parameters

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 Technique parameters

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

DAB7-FB technical parameters

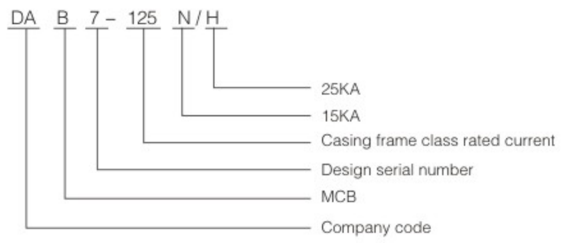
Use category	Ue (V)	Ie (A)	Contact quantity
AC-12	230	2	2 groups of change over contact
AC-15	230	1	
DC-12	110	0.5	

DAB7 - Technique parameters

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

DAB7-125 MCB Miniature Circuit Breaker

Type and specification



Technical parameter

Electric parameter

Innaccoedancewith standard: IEC60947-2 IEC/EN60898

Rated voltage(Ue) : 230V/400V, 50/60HZ

Rated break capacityIcn: N 15kA H 25kA

Rated current In: 6 -125A

pole: 1P, 2P, 3P, 4P

Lifespan: No less than10000 times on-off action

Mechnical parameter

Shell length: 45mm

Shell height: 98mm

Shell width: 27mm per pole (single pole)

installationform: In accordance IECstandard35mm

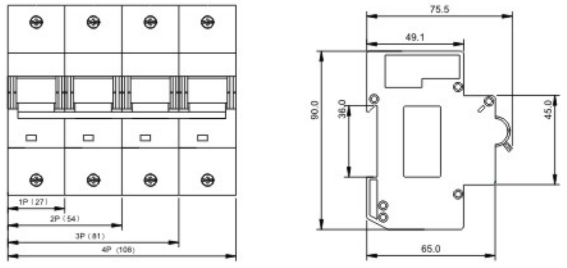
Terminal shape: Lift connection terminal

Terminal wiring capacity: 2.5-50mm^2

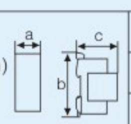
Machinery parameter

- Compiy with the latest standard IEC60947-2:2006
- precise structure and contact state breaking instruction
- highest breakin capacity and current-limft characteristic
- bilateral two-terminal is suitable to bus-bars and single conductor
- which is professional accessories

Mounting Size



MCB DAB7-125

For protection of general power distribution(IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50~60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	6,10,16,20,25,32,40,50,63,80,100,125			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type	DAB7-125N		B/C/D			
	DAB7-125H		B/C/D			
Rated short circuit Icn(kA)	DAB7-125N		15			
	DAB7-125H		25 (100-125A 15KA)			
Release type			Thermal magnetic type			
Service life (O~C)	Mechanical	Actual value	8500			
		Standard value	4000			
	Electrical	Actual value	1500			
		Standard value	1000			
Connection and installation						
Protectiom degree			IP20			
Wire	mm²		1~35			
Working temperature			-5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ , Class Ⅲ			
Mounting			DIN35 rail			
Dimensions(mm) (WxHxL) 		a	27	54	81	108
		b	90	90	90	90
		c	75.5	75.5	75.5	75.5

Rated current(A)In:20~125A

C characteristic curve

Instantaneous characteristic 5-10In
Mainly used in the protection of commercial and civil construction domain

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

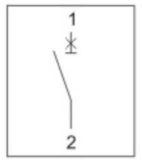
Dcharacteristic curve

Instantaneous characteristics 10-20In
Mainly used in industrial power domains

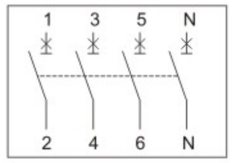
Cricuit breaker release charactertistic(table2)

(table2)

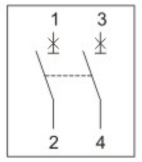
<table>
<tr><th>serial number</th><th>release rated current (A)</th><th>initial state</th><th colspan="2">test current</th><th>set time</th><th>expected result</th><th>memo</th></tr>
<tr><td rowspan="2">1</td><td>In≤63</td><td>cold position</td><td colspan="2">1.13In</td><td>T≤1h</td><td>non-release</td><td></td></tr>
<tr><td>In＞63</td><td>cold position</td><td colspan="2">1.13In</td><td>T≤2h</td><td>non-release</td><td rowspan="3">current steadily raise to ratings within 5S</td></tr>
<tr><td rowspan="2">2</td><td>In≤63</td><td>next to former test</td><td colspan="2">1.45In</td><td>T＜1h</td><td>release</td></tr>
<tr><td>In＞63</td><td>next to former test</td><td colspan="2">1.45In</td><td>T＜2h</td><td>release</td></tr>
<tr><td rowspan="2">3</td><td rowspan="2">In＞63</td><td rowspan="2">cold position</td><td>5In</td><td>10In</td><td>T＞0.2s</td><td>non-release</td><td>5In(C型) 10In(D型)</td></tr>
<tr><td>10In</td><td>20In</td><td>T＜0.2s</td><td>release</td><td>5In(C型) 20In(D型)</td></tr>
</table>



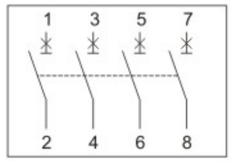
1极 1 pole



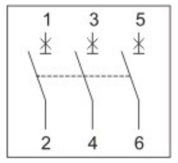
3 pole+centric line



2极 2 pole



4极 4 pole



3极 3 pole

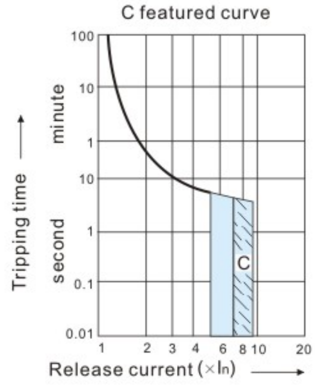
mini circuit breaker DAB7-125

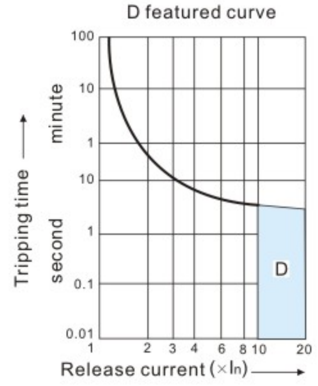
Release characteristics according to IEC898(EN60898)

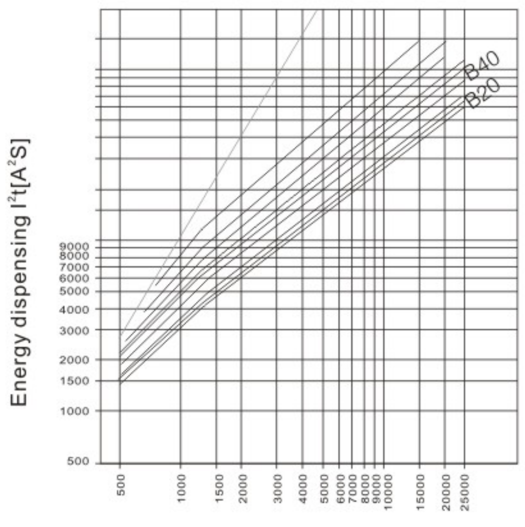
B featured curve:used in lighting power distribution system

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

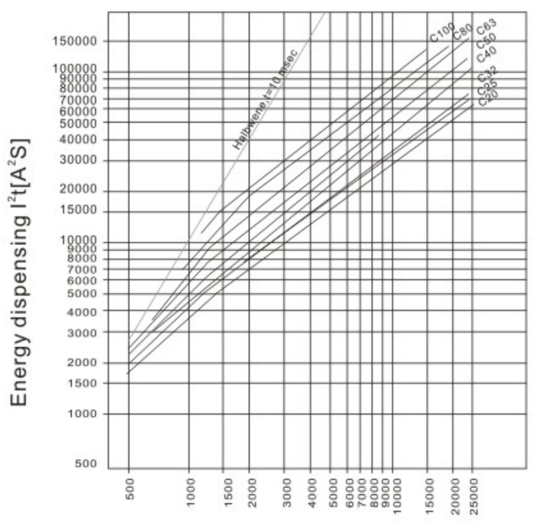
D featured curve:used in power or other intensive conductload loop circuit



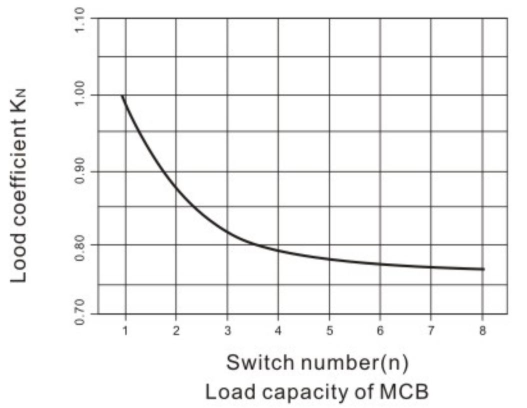




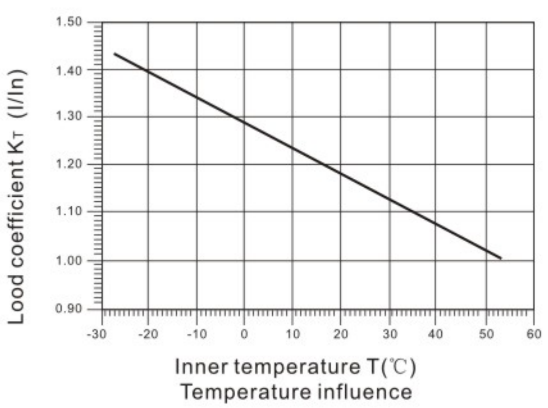
DAB7-125 Series maximum energy consuming, B curve, single pole



DAB7-125 Series maximum energy consuming, C curve, single pole



Load capacity of MCB



Temperature influence

www.cdada.net

DAB7N-40 MCB Miniature Circuit Breaker

Type and specification

DA B 7N 40

- 40: Casing frame class rated current
- 7N: Design serial number, N.Neutral pole
- B: MCB
- DA: Company code

Product Description

DAB7-40 series miniature circuit breaker adopts double-break point of 1P+N, the two poles are insulated and isolated fromeach 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.

Technical parameter

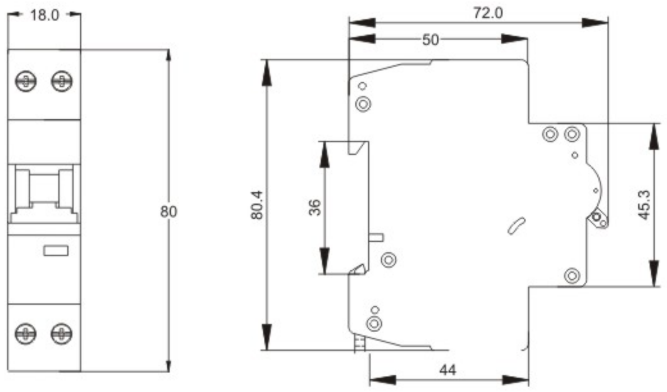
Electric parameters	
Comply with the standards:	IEC60898, GB10963
Rated voltage (Ue):	230V,50Hz
Rated breaking capacity Icn:	6kA
Rated current:	40A
Tripping characteristics:	B and C characteristic curve
Pole number:	1P+N
Service life:	not less than 18000 times of making and breaking operation

Machinery parameter

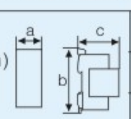
Length of exposed surface:	45mm
Height of enclosure:	80mm
Width of enclosure:	18.0mm(single pole)
Mounting means:	IEC standard guide rail of 3mm
Terminal form:	two-purposed terminal can connect the busbar and conductor

Connection capacity of terminal: conductor of 1-25mm² Thickness of busbar 0.8-2mm

Mounting Size



MCB DAB7N-40

For protection of general power distribution (IEC/EN 60898-1)			
Poles			1P+N (18mm)
Electrical performance			
Functions			short circuit protection,overload protection,isolationg,control
Rated frequency	f	Hz	50-60Hz
Rated working voltage	Ue	V AC	230
Rated current	In	A	40
Rated insulated voltage	Ui	V	500
Impulse withstand voltage	Uimp	kV	4
Instantaneous tripping type	DAB7N-40		B/C
Rated short circuit Icn(kA)	DAB7N-40		6
Release type			Thermal magnetic type
Service life (O-C)	Mechanical	Actual value	12000
		Standard value	4000
	Electrical	Actual value	6000
		Standard value	4000
Connection and installation			
Protection degree			IP20
Wire	mm²		1~35
Working temperature			-5 ~ +40℃
Resistance to humidity and heat			CLASS 2
Altitude above sea			≤2000
Relative humidity			+20℃, ≤90% ;+40℃, ≤50%
Pollution degree			2
Installation environment			AVOID OBVIOUS SHOCK AND VIBRATION
Installation class			CLASS Ⅱ , CLASS Ⅲ
Mounting			DIN35 RAIL
Combination with accessories			
Auxiliary contact			Yes
Alarm contact			Yes
Shunt release			Yes
Undervoltage release			Yes
Auxiliary contact+Alarm contact			Yes
Dimensions(mm) (WxHxL)		a	18
		b	80
		c	72

DAB7LN-40 RCBO Miniature Residual Current Circuit Breaker

Type and specification

DA B 7 LN 40

- 40 — Casing frame class rated current
- L.Electronic type
- N.Neutral pole
- 7 — Design serial number
- B — RCBO
- DA — Company code

Product Description

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.

Technical parameter

Electric parameters

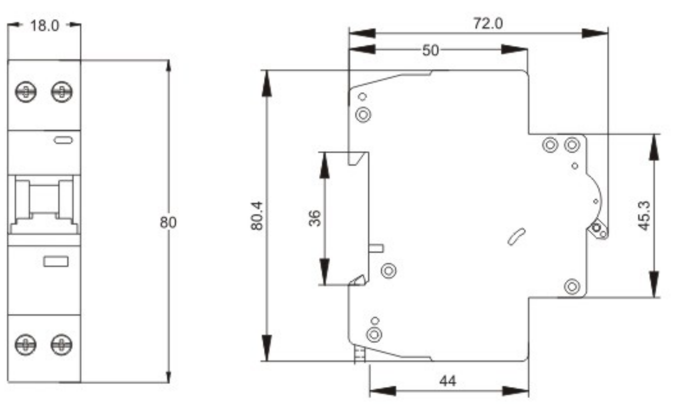
Comply with the standards:	IEC61009, GB16917
Rated voltage (Ue):	230V,50Hz
Rated breaking capacity Icn:	6kA
Rated current:	40A
Tripping characteristics:	B and C characteristic curve
Pole number:	1P+N
Service life:	not less than 18000 times of making and breaking operation

Machinery parameter

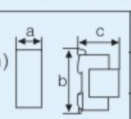
Length of exposed surface:	45mm
Height of enclosure:	80mm
Width of enclosure:	18.0mm(single pole)
Mounting means:	IEC standard guide rail of 3mm
Terminal form:	two-purposed terminal can connect the busbar and conductor

Connection capacity of terminal: conductor of 1-25mm² Thickness of busbar 0.8-2mm

Mounting Size



RCBO DAB7LN-40

For protection of general power distribution (IEC/EN 61009-1)			
Poles			1P+N (18mm)
Electrical performance			
Functions			short circuit protection,overload protection,isolationg,control
Rated frequency	f	Hz	50~60Hz
Rated working voltage	Ue	V AC	230
Rated current	In	A	40
Rated residual current	I△n	mA	10,30,100
Rated insulated voltage	Ui	V	500
Impulse withstand voltage	Uimp	kV	4
Instantaneous tripping type	DAB7LN-40		B/C
Rated short circuit Icn(kA)	DAB7LN-40		6
Release type			Thermal magnetic type
Service life (O~C)	Mechanical	Actual value	12000
		Standard value	4000
	Electrical	Actual value	6000
		Standard value	4000
Connection and installation			
Protectiom degree			IP20
Wire	mm²		1~35
Working temperature			-5 ~ +40℃
Resistance to humidity and heat			CLASS 2
Altitude above sea			≤2000
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%
Pollution degree			2
Installation environment			AVOID OBVIOUS SHOCK AND VIBRATION
Installation class			CLASS Ⅱ , CLASS Ⅲ
Mounting			DIN35 RAIL
Combination with accessories			
Auxiliary contact			Yes
Alarm contact			Yes
Shunt release			Yes
Undervoltage release			Yes
Auxiliary contact+Alarm contact			Yes
Dimensions(mm) (WxHxL) 		a	18
		b	80
		c	72

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

Type and specification

DA B L/F - 40/63

- 6~63A(6KA)
- 6~40A(10KA)
- Casing frame class rated current
- L.Electronic type
- F.Electromagnetic type
- MCB
- Company code

Notice Matters

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

Order guidelines

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-C40100pcs.

Product Description

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 GB16917.1and 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 damageof 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.

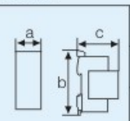
Electric parameter

In accoedance With standard:	IEC61009 (En61009) GB16917.1
Sensitivity:	A type AC type
Release time:	G min loms drang time
Rated voltacje(Ue):	230V/400V,50HZ
Rated current In:	6~63A
Release features:	B C, Dfeatures curves
Shell protection grade:	1P40(Afier instaiiation)
Ratedbreak capacity Icn:	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:	180000 times of operation
Lifespan: electric	No less than 6000 times on-offaction
Machinery	No less than 12000 times on-off action

Machinery parameter

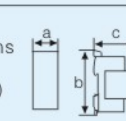
- High break capacity 10kA
- Compact configuration, small size(2 standard dimensions)
- Centrtc line off capacity, more safe and reliable
- Duaf function connection terminal, Well connected
- Contacts condition indicator easy to identify contact information
- Up to 63A is available, wider current range
- Matchable with many kinds of accessories, can be equipped with over-voltageprotection

RCBO DABL-40/63

For protection of general power distribution (IEC/EN 60898-1)	 DABL-40	 DABL-40	 DABL-63	 DABL-63
Poles of number	1P+N / 2P	3P+N / 4P	2P	3P+N / 4P
Electrical performance				
Rated current In A	6–63A	6–32A	6–63A	6–63A
Release type	Electronic type			
Functions	Protection against short circuit , leakage ,overload, over voltage,isolation			
Type of residual current	AC and A			
Rated frequency f Hz	50–60Hz			
Rated working voltage Ue V AC	230/400			
Rated residual current I△n mA	10,30,100,300			
Insulation voltage Ui	500V			
Rated impulse withstand voltage Uimp	6KV			
Instantaneous tripping type	B/C/D			
Rated short circuit Icn(kA)	DABL–40 10KA, DABL–63 6KA			
Service life (O~C) Mechanical	12000			
Service life (O~C) Electrical	6000			
Connection and installation				
Protection degree	IP40			
Wire mm²	1~25			
Working temperature (with daily average≤35℃)	–5 ~ +40℃			
Resistance to humidity and heat	Class 2			
Altitude above sea	≤2000			
Relative humidity	+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree	2			
Installation environment	Avoid obvious shock and vibration			
Installation class	Class Ⅱ , Class Ⅲ			
Combination with accessories				
Auxiliary contact	Yes	Yes	Yes	Yes
Alarm contact	Yes	Yes	Yes	Yes
ALT+AUX	Yes	Yes	Yes	Yes
Shunt release	Yes	Yes	Yes	Yes
Undervoltage release	–	–	–	–
Overvoltage release	Yes	Yes	Yes	Yes
Dimensions (mm) (WxHxL)  a	36 / 54	72 / 90	54	72 / 90
b	80.4	80.4	95	95
c	72	72	72	72

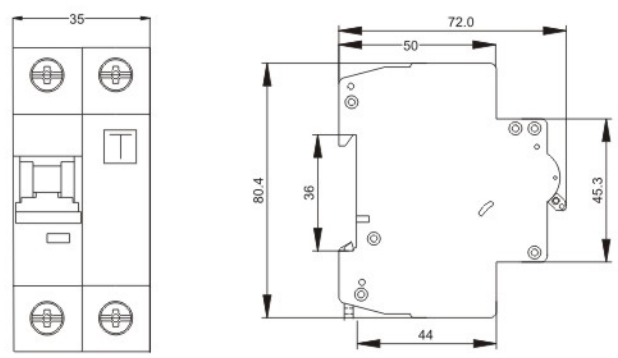
C·DADA www.cdada.net

RCBO DAF-40/63

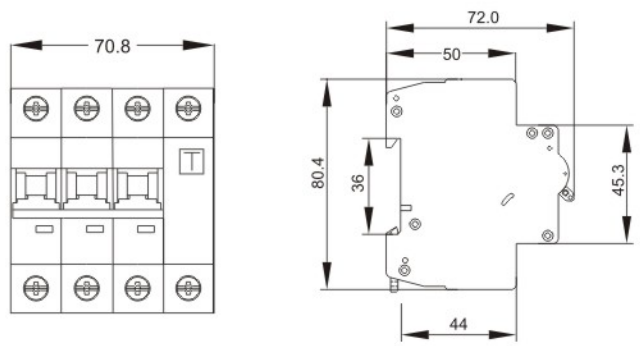
For protection of general power distribution (IEC/EN 60898-1)	 DABF–40	 DABF–40	 DABF–63	 DABF–63
Poles of number	1P+N / 2P	3P+N / 4P	2P	3P+N / 4P
Electrical performance				
Rated current In A	6–32A / 40–63A	6–25A / 32–40A	6–63A	6–63A
Release type	Magnetic type			
Functions	Protection against short circuit , leakage ,overload, over voltage,isolation			
Type of residual current	AC and A			
Rated frequency f Hz	50–60Hz			
Rated working voltage Ue V AC	230/400			
Rated residual current I△n mA	10,30,100,300			
Insulation voltage Ui	500V			
Rated impulse withstand voltage Uimp	6KV			
Instantaneous tripping type	B/C/D			
Rated short circuit Icn(kA)	6			
Service life (O~C) Mechanical	12000			
Service life (O~C) Electrical	6000			
Connection and installation				
Protection degree	IP40			
Wire mm²	1~25			
Working temperature (with daily average≤35℃)	–5 ~ +40℃			
Resistance to humidity and heat	Class 2			
Altitude above sea	≤2000			
Relative humidity	+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree	2			
Installation environment	Avoid obvious shock and vibration			
Installation class	Class Ⅱ , Class Ⅲ			
Combination with accessories				
Auxiliary contact	Yes	Yes	Yes	Yes
Alarm contact	Yes	Yes	Yes	Yes
ALT+AUX	Yes	Yes	Yes	Yes
Shunt release	Yes	Yes	Yes	Yes
Undervoltage release	–	–	–	–
Overvoltage release	–	–	–	–
Dimensions (mm) (WxHxL)  a	36/54 36(<32A) 40(40–63A)/ 54(<32A) 59(40–63A)	72/90 72(6–25A) 77(32–40A)/ 90(6–25A) 95(32–40A)	54	72/90
b	80.4	80.4	106	106
c	72	72	72	72

Mounting size

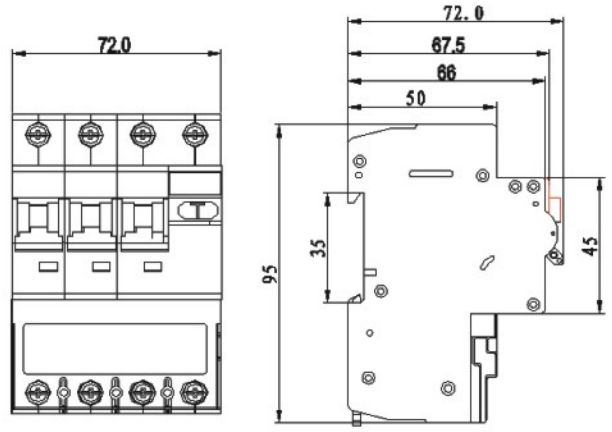
DABL(F)-40/63 1P+N



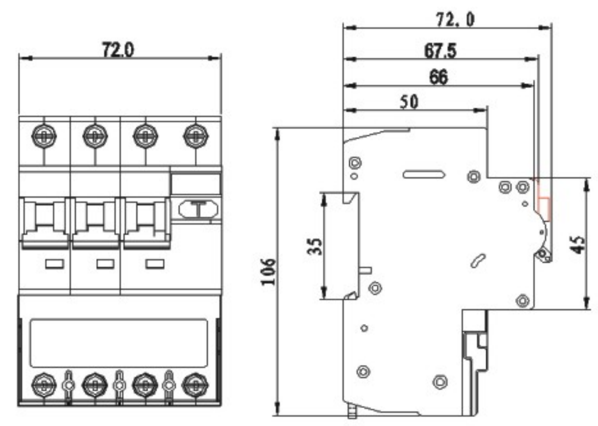
DABL-40/63 3P+N In≤32A

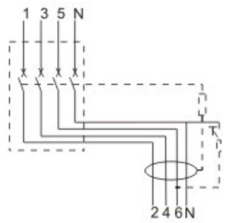


DABL-63 In≤63A 3P+N



DABF-63 In≤63A 3P+N





Cricuit breaker release charactertistic

table 2

Testing type	I△n(mA)	In(mA)	Maximum Residual current breaking time S				
			I△n	2I△n	5I△n	10I△n	
On-off test load test	30	Any value	0.3	0.15	0.04	0.04	delay-time type Minimun non-actuating time 0.04
On-off test load test	30	Any value	0.3	0.15	0.04	0.04	

Note For I△n≤30mA RCBO use 0.25A instead of 5I△n

DAB6-63 MCB Miniature Circuit Breaker

Type and specification

DA B 6 - 63

- Casing frame class rated current
- Design serial number
- MCB
- Company code

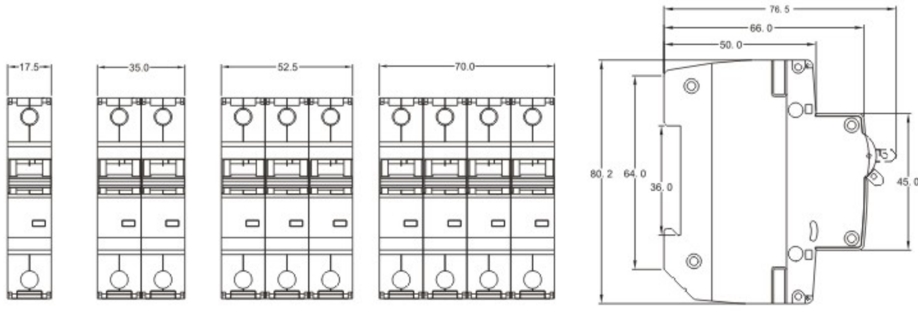
Technical parameter

Conform to standard:	IEC60898,GB10963
Rated voltage(Ue):	230V/400V,50HZ
Rated short circuit Icn(kA):	5KA(2-40A),4KA(50-63A)
Rated breaking capacity Icn:	5KA
Life: Electrical:	not less of 8,000 times switching operation
Mechanical:	not less of 20.000 times switching operation

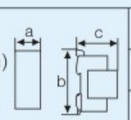
Machinery parameter

The length of exposed plane:	45mm
Enclosure height:	80mm
Enclosure width:	17.5mm per pole (single pole)
MoUnting manner:	Adopt conduct rail of 35mm of IEC standard
Terminaf shape:	Two-function terminalcan connectwith busbar and soft of hard conducting wire
Terminal block capacity:	Conducting wire 1-25mm^2 Busbar thickness:0.8-2mm

Mounting Size

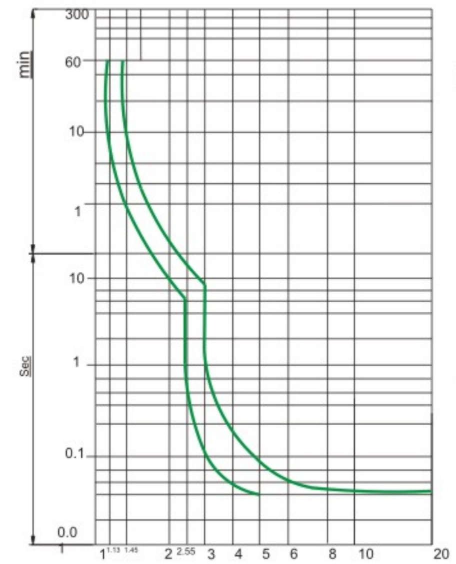


MCB DAB6-63

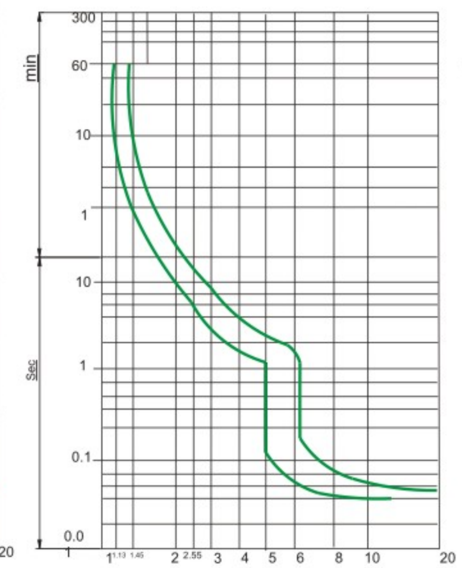
For protection of general power distribution (IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50~60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	2,4,6,10,16,20,25,32,40,50,63			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type	DAB6-63		B/C/D			
Rated short circuit Icn(kA)	DAB6-63		5KA(2~40A) ,4KA(50~63A)			
Release type			Thermal magnetic type			
Service life (O~C)	Mechanical	Actual value	20000			
		Standard value	4000			
	Electrical	Actual value	8000			
		Standard value	4000			
Connection and installation						
Protectiom degree			IP20			
Wire		mm²	1~35			
Working temperature			-5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ , Class Ⅲ			
Mounting			DIN35 rail			
Combination with accessories						
Auxiliary contact			Yes			
Alarm contact			Yes			
Shunt release			Yes			
Undervoltage release			Yes			
Auxiliary contact+Alarm contact			Yes			
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

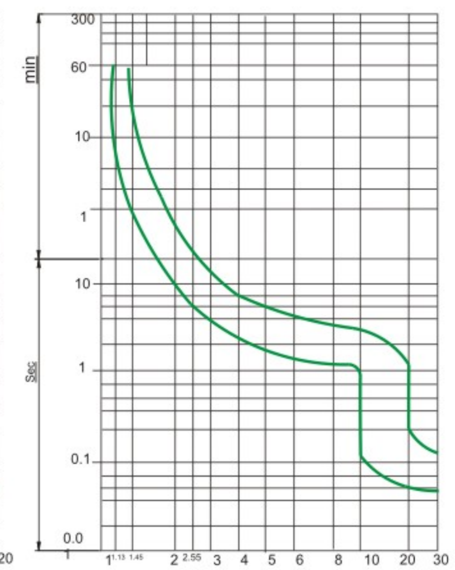
In A	W
2~6	2
16~32	3.5
40~63	5



B特性（1-63A）



C特性（1-63A）

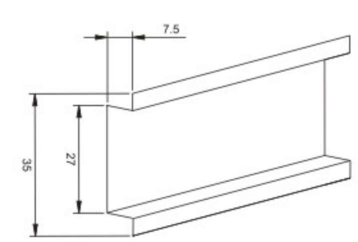


D特性（1-63A）

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

1 (table 1)

Release characteristic	description	Application scope
B	B features applied to faster release and the circuit breaker have smaff short current as well as allowe through maximum current <3In	For protecting of transformer secondary line
C	C features applied to most electric loop,it alfows load through higher short time peak current and circuit breaker no operation,but permit through peak current maximum is up to 5 In.	For protecting of common electricloop.
D	D features were recommended to higher peak current (10In of switch device.For example,it used for protecting transformer one times line,maqnetic valve and motor start,etc.	For protecting one times line



Mounting conduct rail

DAB6-100MCB Miniature Circuit Breaker

Type and specification

DA B 6 – 100

- 100 — Frame size rated current
- 6 — Design Number
- B — MCCB
- DA — Company code

Technical parameter

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

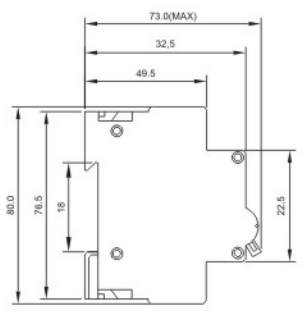
Technical parameter

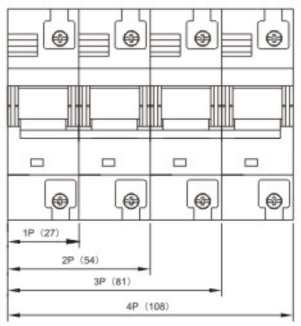
Electric parameters
Comply with the standards: IEC60898
Rated voltage(Ue): 230V/400V,50Hz
Rated breaking capacity Icn: 6/10kA
Rated current: 16A,25A,32A,40A,50A,63A,80A,100A
Tripping characteristics: B,C and D characteristic curve
Pole number: 1P,2P,3P,4P
Service life: not less than 10000 times of making and breaking operation

Machinery parameter

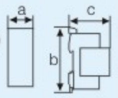
Length of exposed surface: 22.5mm
Height of enclosure: 80mm
Width of enclosure: 27.0mm(single pole)
Mounting means: IEC standard guide rail of 3mm
Terminal form: two–purposed terminal can connect the busbar and conductor

Mounting Size





MCB DAB6-100

For protection of general power distribution(IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50–60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	63,80,100,125			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type	DAB6–100		B/C/D			
Rated short circuit Icn(kA)	DAB6–100		10KA(16~63A) ,6KA(80~100A)			
Release type			Thermal magnetic type			
Service life (O~C)	Mechanical	Actual value	8500			
		Standard value	4000			
	Electrical	Actual value	1500			
		Standard value	1000			
Connection and installation						
Protectiom degree			IP20			
Wire	mm²		1~35			
Working temperature			–5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ , Class Ⅲ			
Mounting			DIN35 rail			
Dimensions(mm) (WxHxL) 		a	27	54	81	108
		b	80	80	80	80
		c	73	73	73	73

DAB6LE-63RCBO Miniature Residual Current Circuit Breaker

Type and specification

DA B 6 LE – 63

- 63: Casing frame clss rated current
- LE: L.Electronic type
- 6: Design serial number
- B: RCBO
- DA: Company code

Electric parameter

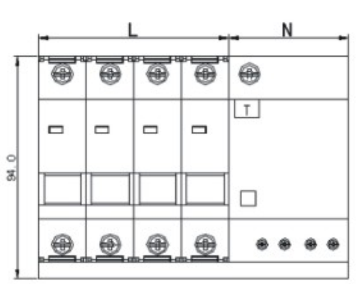
In accoedance With standard:	IEC61009(EN61009) GB16917.1
Sensitivity:	A type AC type
Release time:	G min loms drang time
Rated voltacje(Ue):	230V/400V，50–60HZ
Rated current In:	6–63A
Release features:	B C ,Dfeatures curves
Shell protection grade;	1P40(Afier instaiiation)
Ratedbrak capacitylcn:	5KA(6–40A),4KA(50–63A)
Rated residual action current:	30mA，100mA，300mA
Maximum available fuse:	100AgL(>10KA)
Climatic conditions resistance:	Accordfng to IEC 1008 in Lstandard
Total life:	180000 times of operation
Lifespan: electric	No less than6000times on–offaction
Machinery	No less than 12000times on–off action

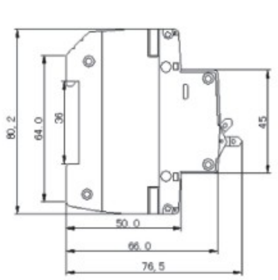
Machinery parameter

High break capacity 6kA
Compact configuration,small size(2 standard dimensions)
Centrtc line off capacity,more safe and reliable
Duaf 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

Mounting Size

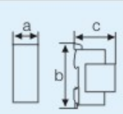
L(mm)	1P: 18mm 2P: 36mm 3P: 54mm 4P: 72mm									
Poles of number	1P+N		2P		3P		3P+N		4P	
L+N(mm)	63A	32A	63A	32A	63A	32A	63A	32A	63A	32A
	54	45	72	63	103	90	117	99	135	117
N(mm)	36	27	36	27	49	36	63	45	63	45





RCBO DAB6LE-32/63

For protection of general power distribution (IEC/EN 60898-1)								
Poles of number	1P+N		2P		3P+N		4P	
Electrical performance								
Rated current In A	32A(Hole)	63A(Big hole)	32A(Hole)	63A(Big hole)	32A(Hole)	63A(Big hole)	32A(Hole)	63A(Big hole)
	2–32A	40–63A	2–32A	40–63A	2–32A	40–63A	2–32A	40–63A
Release type	Electronic type							
Functions	Protection against short circuit , leakage ,overload,isolation							
Type of residual current	AC and A							
Rated frequency f Hz	50–60Hz							
Rated working voltage Ue V AC	230				400			
Rated residual current motion I△n mA	30,100,300							
Rated residual current no–motion I△no mA	5,15,25,50,300							
cosφ	0.5							
Insulation voltage Ui	400V							
Rated impulse withstand voltage Uimp	4KV							
Instantaneous tripping type	B/C/D							
Rated short circuit Icn(kA)	5KA(2~40A),4KA(50~63A)							
Service life (O~C) Mechanical	10000							
Service life (O~C) Electrical	4000							
Connection and installation								
Protection degree	IP20							
Wire mm²	1~25							
Working temperature (with daily average≤35℃)	–5 ~ +40℃							
Resistance to humidity and heat	Class 2							
Altitude above sea	≤2000							
Relative humidity	+20℃ , ≤90% ;+40℃ , ≤50%							
Pollution degree	2							
Installation environment	Avoid obvious shock and vibration							
Installation class	Class Ⅱ , Class Ⅲ							
Combination with accessories								
Auxiliary contact	–		–		–		–	
Alarm contact	–		–		–		–	
ALT+AUX	–		–		–		–	
Shunt release	–		–		–		–	
Undervoltage release	–		–		–		–	
Overvoltage release	–		–		–		–	
Dimensions (mm) (WxHxL) a	See previous page							
b								
c								



DAB5-63MCB Miniature Circuit Breaker

Type and specification

DA B 5 - 63 N/H

- N/H: Ntype 4.5KA / Htype 6KA
- 63: Casing frame class rated current
- 5: Design serial number
- B: MCB
- DA: Company code

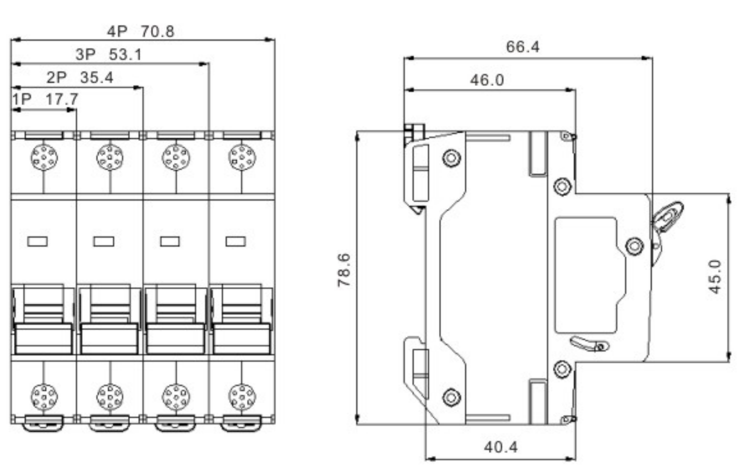
Technical parameter

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
Life:Electrical:	not less of 8,000 times switching operation
Mechanical:	not less of 20.000 times switching operation

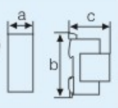
Machinery parameter

The length of exposed plane:	45mm
Enclosure height:	80mm
Enclosure width:	17.5mm per pole (single pole)
MoUnting manner:	Adopt conduct rail of 35mm of IEC standard
Terminaf shape:	Two-function terminalcan connectwith busbar and soft or hard conducting wire Conducting wire 1-25mm² Busbar thickness:0.8-2mm

Mounting Size



MCB DAB5-63

For protection of general power distribution (IEC/EN 60898-1)						
Poles			1P	2P	3P	4P
Electrical performance						
Functions			short circuit protection,overload protection,isolationg,control			
Rated frequency	f	Hz	50-60Hz			
Rated working voltage	Ue	V AC	230/400	400		
Rated current	In	A	2,4,6,10,16,20,25,32,40,50,63			
Rated insulated voltage	Ui	V	500			
Impulse withstand voltage	Uimp	kV	4			
Instantaneous tripping type		DAB5-63N	B/C/D			
		DAB5-63H	B/C/D			
Rated short circuit Icn(kA)		DAB5-63N	4.5KA(2-40A),3.5KA(50-63A)			
		DAB5-63H	6KA (2-40A),4.5KA(50-63A)			
Release type			Thermal magnetic type			
Service life (O-C)	Mechanical	Actual value	20000			
		Standard value	4000			
	Electrical	Actual value	8000			
		Standard value	4000			
Connection and installation						
Protectiom degree			IP20			
Wire		mm²	1~35			
Working temperature			-5 ~ +40℃			
Resistance to humidity and heat			Class 2			
Altitude above sea			≤2000			
Relative humidity			+20℃, ≤90%;+40℃, ≤50%			
Pollution degree			2			
Installation environment			Avoid obvious shock and vibration			
Installation class			Class Ⅱ, Class Ⅲ			
Mounting			DIN35 rail			
Combination with accessories						
Auxiliary contact			Yes			
Alarm contact			Yes			
Shunt release			Yes			
Undervoltage release			Yes			
Auxiliary contact+Alarm contact			Yes			
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

MCCB
MCCB accessory
MCB

DAB5LE-63RCBO Miniature Residual Current Circuit Breaker

Type and specification

DA B 5 LE – 63

- Casing frame class rated current (63)
- L.Electronic type (LE)
- Design serial number (5)
- RCBO (B)
- Company code (DA)

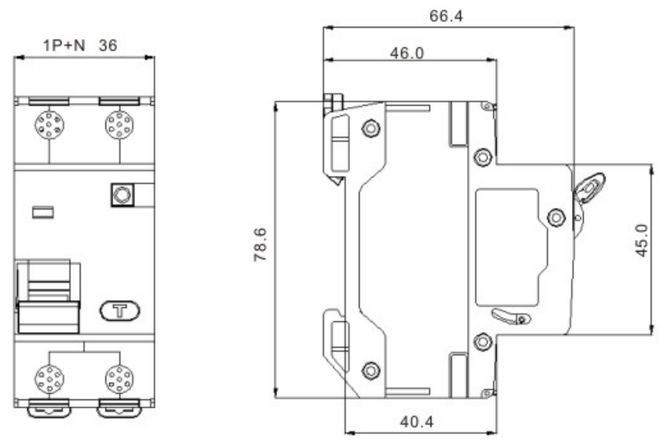
Technical parameter

Conform to standard:	IEC61009,GB16917
Rated voltage(Ue):	230V/400V,50HZ
Rated breaking capacity Icn:	6KA
Life:Electrical:	not less of 8,000 times switching operation
Mechanical:	not less of 20.000 times switching operation

Machinery parameter

The length of exposed plane:	45mm
Enclosure height:	80mm
Enclosure width:	17.5mm per pole (single pole)
MoUnting manner:	Adopt conduct rail of 35mm of IEC standard
Terminaf shape:	Two-function terminalcan connectwith busbar and soft or hard conducting wire Conducting wire 1-25mm^2 Busbar thickness:0.8-2mm

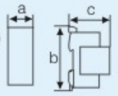
Mounting Size



RCBO DAB5LE-63

For protection of general power distribution (IEC/EN 61009-1)

Poles			1P+N
Electrical performance			
Functions			short circuit protection,overload protection,isolationg,control
Rated frequency	f	Hz	50-60Hz
Rated working voltage	Ue	V AC	230/400
Rated current	In	A	2,4,6,10,16,20,25,32,40,50,63
Rated residual current motion	I△n	mA	10,30,100
Rated insulated voltage	Ui	V	500
Impulse withstand voltage	Uimp	kV	4
Instantaneous tripping type	DAB5LE-63		B/C/D
Rated short circuit Icn(kA)	DAB5LE-63		6 (50-63A 4.5KA)
Release type			Thermal magnetic type
Service life (O~C)	Mechanical	Actual value	20000
		Standard value	4000
	Electrical	Actual value	8000
		Standard value	4000
Connection and installation			
Protectiom degree			IP20
Wire		mm²	1~35
Working temperature			-5 ~ +40℃
Resistance to humidity and heat			Class 2
Altitude above sea			≤2000
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%
Pollution degree			2
Installation environment			Avoid obvious shock and vibration
Installation class			Class Ⅱ , Class Ⅲ
Mounting			DIN35 rail
Combination with accessories			
Auxiliary contact			Yes
Alarm contact			Yes
Shunt release			Yes
Undervoltage release			Yes
Auxiliary contact+Alarm contact			Yes

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

MCCB
MCCB accessory
MCB

DABF360-RCCB Residual Current Circuit Breaker

Type and specification

DA F36 0 □ □

- Rated surplus operating curre
- Rated Curren
- Poles
- Design Number
- Company code

Normal conditions of use

1,ambient air temperature:ambient air temperature of -5 ℃~40℃,24-houraverage no more than 35.
2.Altitude:Installationsite 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 notexceed 25℃, relative temperature Not exceeding 90.
4,installation Category:Installation category` Ⅰ, Ⅲ 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 upfor the power position,Installation should be no significant impact and vibration.
8,Connection:screw connection or pressed connection by bus.

Structure and working principle

1,the structure.
Residual current operated circuit breakers DAF360 mainly by the zero sequence current transformer , de-Deduction,operating agencies,contact system,elimnate 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.
3,the working principle

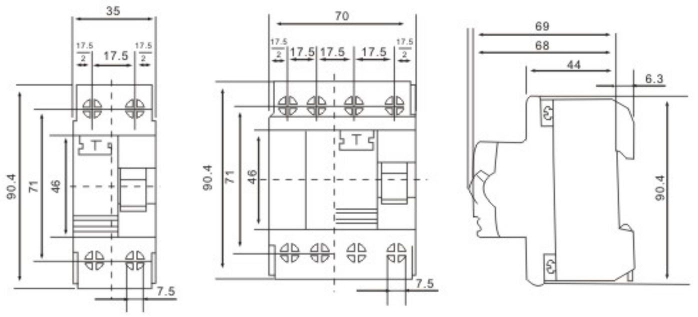
Applicable scope

DAF360 residual current operated cicuit 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 When the leakage current circuit breaker will trip trip circuit breaking.
Circuit breakers and grounding system with indirect exposure to the humanbody can be charged body protection , when rated current is greater than or equal to 30mAleakage,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.

Applicable scope

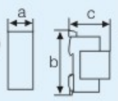
DAF360 type over- current protection with no residual current operated circuit breakers(RCCB) Meet GB16916.1, IEC61008, BS4293 and other standards for mining enterprises Industry, business and family communication 50-60Hz, single phase 240 (220V), three-phase415V(380V),as a personal electric shock and leakage protection device used, you can in normal circumstances the following lines are not as frequent conversion purposes.

Mounting Size



C·DADA CE CB S CCC RoHS KEMA KEUR www.cdada.net

RCCB DAF360

For protection of general power distribution (IEC/EN 61008-1)				
Poles of number			2P	4P
Electrical performance				
Rated current	In	A	16~63A	
Release type			Electronic type	Magnetic type
Functions			Protection against short circuit , leakage ,isolation	
Type of residual current			AC and A	
Rated frequency	f	Hz	50~60Hz	
Rated working voltage	Ue	V AC	230/400	400
Rated residual current	I△n	mA	10,30,100,300	
Insulation voltage		Ui	500V	
Rated impulse withstand voltage		Uimp	6KV	
Rated short circuit Icn(kA)			6	
Service life(O-C)	Mechanical		10000	
	Electrical		4000	
Connection and installation				
Protection degree			IP40	
Wire	mm²		1~25	
Working temperature (with daily average≤35℃)			-5 ~ +40℃	
Resistance to humidity and heat			Class 2	
Altitude above sea			≤2000	
Relative humidity			+20℃ , ≤90% ;+40℃ , ≤50%	
Pollution degree			2	
Installation environment			Avoid obvious shock and vibration	
Installation class			Class Ⅱ , Class Ⅲ	
Combination with accessories				
Auxiliary contact			-	-
Alarm contact			-	-
ALT+AUX			-	-
Shunt release			-	-
Undervoltage release			-	-
Overvoltage release			-	-
Dimensions(mm) (WxHxL) 		a	35	70
		b	90.4	90.4
		c	69	69