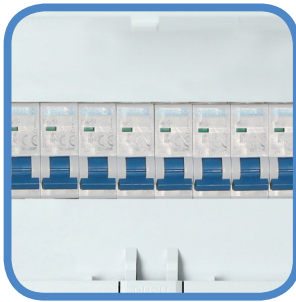


DONG-A PRODUCTS GUIDE

Molded Case Circuit Breakers
Earth Leakage Circuit Breakers
Air Circuit Breakers

Magnetic Contactors / Switches
Thermal Overload Relays
Auto Transfer Switches



Dreams

Promoting happiness is the aim of DEVICO technology.
Our state-of-the-art technology cherishes humanism and helps realize dreams.

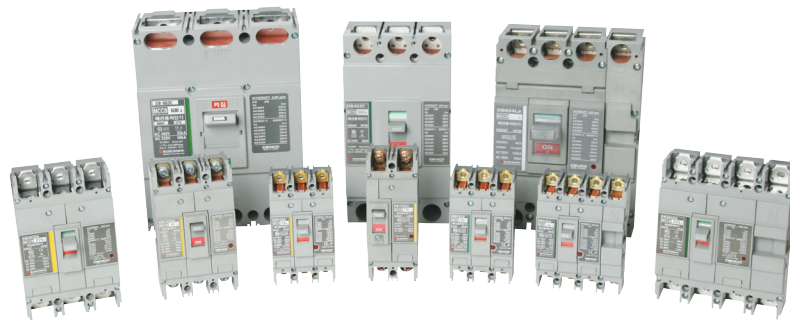
Imagination

DEVICO's cutting-edge technology is taking the lead in the electric and electronic industrial field.
We dream of a digital world that is prosperous, convenient, and promising.

Service

DEVICO's service aims at a greener and cleaner environment with its goal to harmonize man and nature.
The services provided are future-oriented and environment-friendly.

ELCB & MCCB (Molded Case Circuit Breakers & Earth Leakage Circuit Breakers) Page 4~9



- DBE/DB Series are small and economical breaker which protects from a fire danger and equipment damages caused by overload, short. We choose complete electric type and thermal electric type which is excellent performance characteristic.
- Also, as we standardize its size, has enormous compatibility to be easy attached other types and accessories.
- All Your Requirements Fill with Contentment.

Features

- As same size as MCCB and ELC
- 4p ELCB is also same size as MCCB, can build a Distribution Board easily
- Simplified installation, high breaking capacity, optimized protection
- Easy trip check by using built in trip unit

Breaker for Distribution Board (MCCB & ELCB) Page 10~11

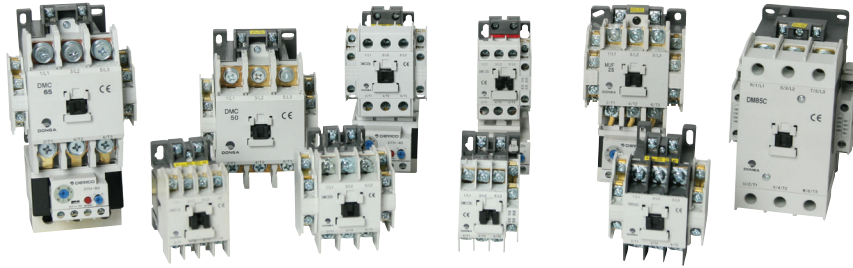


Features

- As same size as Wiring Breaker and Electric Leakage Breaker(30~100AF)
- Simplified and minimize 60% of size compare of ex-product in 3P & 4P
- Easy to build a Distribution Board by being same size of other breakers

MC&MS (Magnetic Contactors & Magnetic Switches) Page 12~15

- Our magnetic contactors are based on accumulated technique long time, and suitably designed to export by acquired international certificate. In addition, simple wiring and inspect give customer satisfaction.
- Using a silver alloy contact and stable movement guarantee long mechanical and electronic life.



Features

- No noise (Electric & Mechanical)
- High durability by increasing reliability and stabilizing of a point of contact
- Minimized power consumption
- Easy detach by using modularized sub-contact
- Installed cover for protect from touch
- AC Controls DC excitation system for voltage dip
- Acquired overseas certificate (CE, VDE, CCC, TUV)

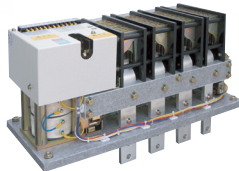
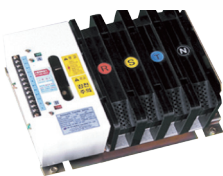
new

AIR CIRCUIT BREAKERS & AUTOMATIC TRANSFER SWITCHES



Features of DACB

- Satisfy with diversity and safety
- Elevated reliability with structure confirming cause of problem by each step



Feature of DATS

- Excellent latching equipment has an ample current flow capability by choosing two-coil method (TS, TN TYPE)
- Standing out in melting over current strength and one-coil method (MS/MSN TYPE)
- It is designed to protect the danger of occurrence of accidents caused by phase difference effectively, especially at single phase-using points.

MCCB 630AF



Features

- Arc-Extinguish Unit
- Applied SAPO which is our patent (SAPO : Self Arc - Pushing Out Function)
- Easy to make space by minimize 210×275×103(600AF size to 140×257×103(400AF size)
- As same size as MCCB and ELCB and embedded ZCT
- Maximizing control convenience by using accessory cartridge

Home Panel Board Page 28

• General Style



Circle	Size
8 circle	280x200x105
12 circle	300x232x105

• Frame Style



Circle	Size
8 circle	280x200x97.6
12 circle	306x236x97.6

01 → → MOLDED CASE CIRCUIT BREAKERS | ECONOMIC TYPE. STANDARD TYPE

MOLDED CASE CIRCUIT BREAKERS(MCCB) ECONOMIC TYPE



Frame Size(AF)		30AF			50AF			60AF			100AF			
Model		DB32Cb	DB33Cb	DB52Cb	DB53Cb	DB54Cb	DB62Cb	DB63Cb	DB64Cb	DB102Cb	DB103Cb	DB104Cb		
Number of Poles		2	3	2	3	4	2	3	4	2	3	4		
ZCT Built-In					0			0			0			
Rating	Rated Current	A (5,10) (Note1) 15, 20, 30			5 (5,10)15, 20, 30, 40, 50			15, 20, 30, 40, 50, 60			15, 20, 30, 40, 50, 60, 75, 100			
	Rated Voltage	AC(V) 460			600			600			600			
		DC(V) 125			250			250		-		250		-
	Rated Insulation Voltage	V 460			690			690			690			
Ultimate Breaking	AC	600V			5			5			7.5			
Capacity(kA)		480/500V			7.5			7.5			10			
KSC 8321(Sym)		460V (2.5)5			(5)10			10			14			
ICE60947-2(Icu)		415V 5			10			10			14			
Ics=0.5Icu		380V 5			14			14			18			
		220V (5)10			(10)25			25			25			
DC	250V	(5)10			5		-		5		-		7.5	-
	125V	-			10		-		10		-		14	-
Over Current Trip		Oil Dash Pot			Oil Dash Pot			Oil Dash Pot			Oil Dash Pot			
Accessories	Auxiliary switch	AX			○			○			○			
	Alarm switch	AL			○			○			○			
	Shunt trip	SHT			○			○			○			
	Direct rotary handle	DH			○			○			○			
	Terminal shield	-			○			○			○			
	Insulation barrier	-			○			○			○			
External Dimensions(mm)	a	50	75	50	75	100	50	75	100	50	75	100		
	b	96			130			130			130			
	c	60			60			60			60			
	d	80			80			80			80			
Certificates Obtained		KS, CE			KS, CE			KS, CE			KS, CE			

MOLDED CASE CIRCUIT BREAKERS(MCCB) STANDARD TYPE



Frame Size(AF)		30AF			50AF			60AF			100AF			
Model		DB32Sb	DB33Sb	DB34Sb	DB52Sb	DB53Sb	DB54Sb	DB62Sb	DB63Sb	DB64Sb	DB102Sb	DB103Sb	DB104Sb	
Number of Poles		2	3	4	2	3	4	2	3	4	2	3	4	
ZCT Built-In		0			0			0			0			
Rating	Rated Current	A 5, 10, 15, 20, 30			15, 20, 30, 40, 50			15, 20, 30, 40, 50, 60			15, 20, 30, 40, 50, 60, 75, 100			
	Rated Voltage	AC(V) 600			600			600			600			
		DC(V) 250			-			250		-		250		-
	Rated Insulation Voltage	V 690			690			690			690			
Ultimate Breaking	AC	600V 5			7.5			7.5			10			
Capacity(kA)		480/500V 7.5			10			10			14			
KSC 8321(Sym)		460V 10			14			14			25			
ICE60947-2(Icu)		415V 10			14			14			25			
Ics=0.5Icu		380V 14			18			18			25			
		220V 25			25			25			50			
DC	250V	5		-	7.5		-		7.5		14		-	
	125V	10		-	14		-		14		20		-	
Over Current Trip		Oil Dash Pot			Oil Dash Pot			Oil Dash Pot			Thermal Magnetic			
Accessories	Auxiliary switch	AX			○			○			○			
	Alarm switch	AL			○			○			○			
	Shunt trip	SHT			○			○			○			
	Direct rotary handle	DH			○			○			○			
	Terminal shield	-			○			○			○			
	Insulation barrier	-			○			○			○			
External Dimensions(mm)	a	50	75	100	50	75	100	50	75	100	60	90	120	
	b	130			130			130			155			
	c	60			60			60			60			
	d	80			80			80			80			
Certificates Obtained		KS, CE			KS, CE			KS, CE			KS	KS, CE		



225AF			400AF			600AF			new 630AF			800AF		
DB202Cb	DB203Cb	DB204Cb	DB402C	DB403C	DB404C	DB602C	DB603C	DB604C	DB632C	DB633C	DB634C	DB802C	DB803C	DB804C
2	3	4	2	3	4	2	3	4	2	3	4	2	3	4
0			0											
125, 150, 175, 200, 225			250, 300, 350, 400			500, 600			500, 600, 630			700, 800		
600			600			600			600			600		
250		-	250		-	250		-	250		-	250		
690			690			690			690			690		
7.5			18			22			22			22		
10			22			25			25			25		
18			30			35			35			35		
18			30			42			42			42		
35			42			50			50			50		
10		-	10		-	20		-	20		-	20		-
15		-	20		-	30		-	30		-	30		-
Thermal Magnetic			Thermal Magnetic			Thermal Magnetic			Thermal Magnetic			Thermal Magnetic		
○			○			○			○			○		
○			○			○			○			○		
○			○			○			○			○		
○			-			-			-			-		
○			○			-			-			-		
○			○			○			○			○		
105		140	140		184	210		280	140		184	210		280
165			257			275			257			275		
60			103			103			103			103		
82.5			133			149			133			149		
KS	KS, CE		KS	KS(350,400A Except),CE		KS	KS, CE		KS	KS, CE		KS	KS, CE	



225AF			400AF			600AF			new 630AF			800F		
DB202Sb	DB203Sb	DB204Sb	DB402S	DB403S	DB404S	DB602S	DB603S	DB604S	DB632S	DB633S	DB634S	DB802S	DB803S	DB804S
2	3	4	2	3	4	2	3	4	2	3	4	2	3	4
0			0											
100, 125, 150, 175, 200, 225			250, 300, 350, 400			500, 600			500, 600, 630			700, 800		
600			600			600			600			600		
250		-	250		-	250		-	250		-	250		-
690			690			690			690			690		
10			22			25			25			25		
14			25			45			45			45		
25			35			50			50			50		
25			42			65			65			65		
50			50			100			100			100		
14		-	20		-	40		-	40		-	40		-
20		-	30		-	50		-	50		-	50		-
Thermal Magnetic			Thermal Magnetic			Thermal Magnetic			Thermal Magnetic			Thermal Magnetic		
○			○			○			○			○		
○			○			○			○			○		
○			○			○			○			○		
○			-			-			-			-		
○			○			-			-			-		
○			○			○			○			○		
105		140	140		184	210		280	140		184	210		280
165			257			275			257			275		
60			103			103			103			103		
82.5			133			149			133			149		
KS	KS, CE		KS	KS, CE		KS	KS, CE		KS	KS, CE		KS	KS, CE	

※ Please write "ZCT" by the side of product name when you order ZCT internal type.(ex:DB104CB-ZCT)

MOLDED CASE CIRCUIT BREAKERS(MCCB) HIGH INTERRUPTING CAPACITY TYPE



Frame Size(AF)		30AF			50AF		
Model		DB32Hb	DB33Hb	DB34Hb	DB52Hb	DB53Hb	DB54Hb
Number of Poles		2	3	4	2	3	4
ZCT Built-In		0			0		
Rating	Rated Current	A 15, 20, 30			15, 20, 30, 40, 50		
	Rated Voltage	AC(V) 600			600		
	DC(V)	250	-		250	-	
	Rated Insulation Voltage	V 690			690		
Ultimate Breaking	AC	600V 7.5			10		
Capacity(kA)		480/500V 10			14		
KS C 8321(Sym)		460V 14			25		
ICE60947-2(Icu)		415V 14			25		
Ics=0.5Icu		380V 18			25		
		220V 25			50		
DC	250V	7.5	-		14	-	
	125V	14	-		20	-	
Over Current Trip		Oil Dash Pot			Thermal Magnetic		
Accessories	Auxiliary switch	AX			○		
	Alarm switch	AL			○		
	Shunt trip	SHT			○		
	Direct rotary handle	DH			○		
	Terminal shield	○			○		
	Insulation barrier	○			○		
External Dimensions(mm)	a	50	75	100	60	90	120
	b	130			155		
	c	60			60		
	d	80			80		
Certificates Obtained		KS, CE			KS, CE		

MOLDED CASE CIRCUIT BREAKERS(MCCB) CURRENT LIMITING TYPE



Frame Size(AF)		new 50AF		new 100AF		new 225AF	
Model		DB53L	DB54L	DB103L	DB104L	DB203L	DB204L
Number of Poles		3	4	3	4	3	4
ZCT Built-In		0		0		0	
Rating	Rated Current	A 20, 30, 40, 50		20, 30, 40, 50, 60, 75, 100		125, 150, 175, 200, 225	
	Rated Voltage	AC(V) 600		600		600	
	DC(V)	250	-	250	-	250	-
	Rated Insulation Voltage	V 690		690		690	
Ultimate Breaking	AC	600V 35		35		35	
Capacity(kA)		480/500V 42		42		42	
KS C 8321(Sym)		460V 65		65		65	
ICE60947-2(Icu)		415V 65		65		65	
Ics=0.5Icu		380V 65		65		65	
		220V 125		125		125	
DC	250V	40	-	40	-	40	-
	125V	60	-	60	-	60	-
Over Current Trip		Thermal Magnetic		Thermal Magnetic		Thermal Magnetic	
Accessories	Auxiliary switch	AX		-		-	
	Alarm switch	AL		-		-	
	Shunt trip	SHT		-		-	
	Direct rotary handle	DH		-		-	
	Terminal shield	-		-		-	
	Insulation barrier	○		○		○	
External Dimensions(mm)	a	105	140	105	140	105	140
	b	165		165		165	
	c	78.9		78.9		78.9	
	d	109		109		109	
Certificates Obtained		Safety Certificate		Safety Certificate		Safety Certificate	



100AF			225AF			400AF		
DB102Hb	DB103Hb	DB104Hb	DB202Hb	DB203Hb	DB204Hb	DB402H	DB403H	DB404H
2	3	4	2	3	4	2	3	4
0			0			0		
15, 20, 30, 40, 50, 60, 75, 100			100, 125, 150, 175, 200, 225			250, 300, 350, 400		
600			600			600		
250	-		250	-		250	-	
690			690			690		
18			18			25		
25			25			35		
35			35			50		
35			35			65		
65			65			85		
18	-		18	-		40	-	
25	-		25	-		50	-	
Thermal Magnetic			Thermal Magnetic			Thermal Magnetic		
○			○			○		
○			○			○		
○			○			○		
○			○			-		
○			○			○		
○			○			○		
60	90	120	105	140		140	184	
155			165			257		
60			60			95		
80			82.5			154		
KS, CE			KS			KS	KS, CE	



400AF		600AF		new 630AF		800AF		
DB403L	DB404L	DB603L	DB604L	DB633L	DB634L	DB802L	DB803L	DB804L
3	4	3	4	3	4	2	3	4
0								
250, 300, 350, 400		500, 600		500, 600, 630		700, 800		
600		600		600		600		
250	-	250	-	250	-	250	-	
690		690		690		690		
35		30		30		30		
50		65		65		65		
65		85		85		85		
65		100		100		100		
125		125		125		125		
40	-	40	-	40	-	40	-	
60	-	60	-	60	-	660	-	
Thermal Magnetic		Thermal Magnetic		Thermal Magnetic		Thermal Magnetic		
○		○		○		○		
○		○		○		○		
○		○		○		○		
-		-		-		-		
○		-		-		-		
○		○		○		○		
140	184	210	280	140	184	210	280	
257		275		257		275		
103		103		103		103		
154		149		154		149		
KS, CE		-		-		-		

※ Please write "ZCT" by the side of product name when you order ZCT internal type.(ex:DB104CB-ZCT)

EARTH LEAKAGE CIRCUIT BREAKERS(ELCB)ECONOMIC TYPE



Frame Size(AF)		30AF		50AF			60AF	100AF			225AF			400AF	
Model		DBE32Cb	DBE33Cb	DBE52Cb	DBE53Cb	DBE54Cb	DBE63Cb	DBE102Cb	DBE103Cb	DBE104Cb	DBE202Cb	DBE203Cb	DBE204Cb	DBE403C	
Number of Poles		2P2E	3P3E	2P2E	3P3E	4P3E	3P3E	2P2E	3P3E	4P3E	2P2E	3P3E	4P3E	3P3E	
Rating	Protective Function	For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection	For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection			
	Rated Voltage AC(V)	220	460	220	460		460	220	460		460			460	
	Rated Impulse Voltage [kV]	6			6			6	6			6			6
	Rated Current [A]	15, 20, 30		15, 20, 30, 40, 50			60	15, 20, 30, 40, 50, 60, 75, 100			100, 125, 150, 175, 200, 225			250, 300, 350, 400	
	Rated Sensitivity Current [mA]	15, 30		30, 100/200/500			30, 100/200/500	100/200/500			100/200/500			200/500	
	Tripping Time [sec]	Within 0.03 Second	Within 0.1 Second	Within 0.1 Second			Within 0.1 Second	Within 0.1 Second			Within 0.1 Second			Within 0.1 Second	
Ultimate Breaking Capacity Icu AC	460/415V	-	5	10			10	14			18			30	
KSC 4613(Sym) Ics=0.5Icu	240/220V	10	10	25			25	25			35			42	
Over Current Trip		Oil Dash Pot		Oil Dash Pot			Oil Dash Pot	Oil Dash Pot			Thermal Magnetic			Thermal Magnetic	
Accessories	Auxiliary switch AX	-	○	○			○	○			○			○	
	Alarm switch AL	-	○	○			○	○			○			○	
	Direct rotary handle DH	-	○	○			○	○			○			-	
	Terminal shield	-	○	○			○	○			○			-	
	Insulation barrier	-	○	○			○	○			○			○	
External Dimensions(mm)	a	50	75	75		100	75	75		100	105	140		140	
	b	96		130			130	130			165			345	
	c	60		60			60	60			60			103	
	d	80		80			80	80			82.5			133	
Certificates Obtained		KS, CE		KS, CE			KS, CE	KS, CE			KS, CE			KS(350, 400 Except)	

EARTH LEAKAGE CIRCUIT BREAKERS (ELCB)STANDARD TYPE



Frame Size(AF)		30AF		50AF			60AF	100AF			225AF			400AF
Model		DBE33Sb	DBE52Sb	DBE53Sb	DBE54Sb	DBE63Sb	DBE102Sb	DBE103Sb	DBE104Sb	DBE202Sb	DBE203Sb	DBE204Sb	DBE403S	
Number of Poles		3P3E	2P2E	3P3E	4P3E	3P3E	2P2E	3P3E	4P4E	2P2E	3P3E	4P3E	3P3E	
Rating	Protective Function	For Both Overload and Short Circuit Protection	For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection	For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection	
	Rated Voltage AC(V)	460	220	460		460	220	460		460			460	
	Rated Impulse Voltage [kV]	6	6			6	6			6			6	
	Rated Current [A]	10, 15, 20, 30	15, 20, 30, 40, 50			60	15, 20, 30, 40, 50, 60, 75, 100			100, 125, 150, 175, 200, 225			250, 300, 350, 400	
	Rated Sensitivity Current [mA]	30, 100/200/500	30, 100/200/500			30, 100/200/500	100/200/500			100/200/500			200/500	
	Tripping Time [sec]	Within 0.1 Second	Within 0.1 Second			Within 0.1 Second	Within 0.1 Second			Within 0.1 Second			Within 0.1 Second	
Ultimate Breaking Capacity Icu AC	460/415V	10	14			14	25			25			35	
KSC 4613(Sym) Ics=0.5Icu	240/220V	25	25			25	50			50			50	
Over Current Trip		Oil Dash Pot	Oil Dash Pot			Oil Dash Pot	Thermal Magnetic			Thermal Magnetic			Thermal Magnetic	
Accessories	Auxiliary switch AX	○	○			○	○			○			○	
	Alarm switch AL	○	○			○	○			○			○	
	Direct rotary handle DH	○	○			○	○			○			○	
	Terminal shield	○	○			○	○			○			-	
	Insulation barrier	○	○			○	○			○			○	
External Dimensions(mm)	a	75	75		100	75	90	120		105	140		140	
	b	130		130			130	155			165			345
	c	60		60			60	60			60			103
	d	80		80			80	80			82.5			133
Certificates Obtained		KS, CE		KS, CE			KS, CE	KS			KS			KS(350, 400 Except)



EARTH LEAKAGE CIRCUIT BREAKERS (ELCB) HIGH INTERRUPTING CAPACITY TYPE



Frame Size(AF)		30AF	50AF			100AF			225AF			400AF
Model		DBE33Hb	DBE52Hb	DBE53Hb	DBE54Hb	DBE102Hb	DBE103Hb	DBE104Hb	DBE202Hb	DBE203Hb	DBE204Hb	DBE403H
Number of Poles		3P3E	2P2E	3P3E	4P3E	2P2E	3P3E	4P3E	2P2E	3P3E	4P3E	3P3E
Rating	Protective Function	For Both Overload and Short Circuit Protection		For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection			For Both Overload and Short Circuit Protection		For Both Overload and Short Circuit Protection
	Rated Voltage AC(V)	460	220	460			220	460		460		460
	Rated Impulse Voltage [kV]	6	6			6			6		6	
	Rated Current [A]	15, 20, 30	15, 20, 30, 40, 50			15, 20, 30, 40, 50, 60, 75, 100			100, 125, 150, 175, 200, 225		250, 300, 350, 400	
	Rated Sensitivity Current [mA]	30, 100/200/500	100/200/500			100/200/500			100/200/500		200/500	
Tripping Time [sec]	Within 0.1 Second	Within 0.1 Second			Within 0.1 Second			Within 0.1 Second		Within 0.1 Second		
Ultimate Breaking Capacity Icu AC	460/415V	14	25			35			35		50	
KSC 4613(Sym) Ics=0.5Icu	240/220V	25	50			65			65		85	
Over Current Trip		Oil Dash Pot	Thermal Magnetic			Thermal Magnetic			Thermal Magnetic		Thermal Magnetic	
Accessories	Auxiliary switch AX	○	○			○			○		○	
	Alarm switch AL	○	○			○			○		○	
	Direct rotary handle DH	○	○			○			○		-	
	Terminal shield	○	○			○			○		-	
	Insulation barrier	○	○			○			○		○	
External Dimensions(mm)	a	75	90		120	90		120	105		140	140
	b	130	155			155			165		345	
	c	60	60			60			60		103	
	d	80	80			80			82.5		133	
Certificates Obtained		KS	KS	KS, CE		KS			KS		KS(350, 400 Except)	

04

BK6□ Mini Circuit Breaker



Application

BK6□ series mini circuit breaker can be used to the circuit of AC 50Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit. Meanwhile, they are also used in turning on or off the electric apparatus and lighting circuit under the normal condition.

The product conforms to IEC898.



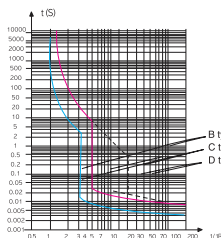
Specifications



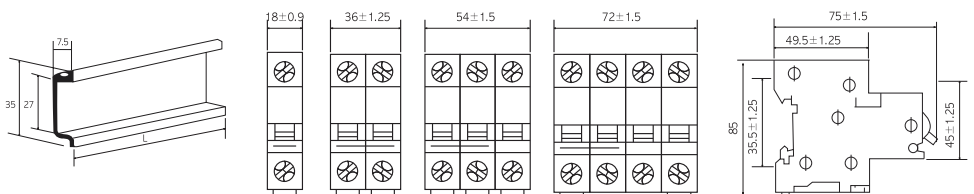
Frame Size(AF)	BK61	BK62	BK63	BK64
No. of Pole		1, 2, 3, 4		
Rated Voltage	230V/400V			
Electronical Life	4000 times			
Mechanical Life	10000 times			
Rated Current	1, 2, 3, 4, 6, 10, 16, 20, 25, 32, 40, 50, 63A			
Ingress Protection	IP20			
Breaking Capacity	3, 6kA			



Characteristic Curve



Dimensions

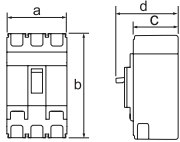


05 → → BREAKERS FOR DISTRIBUTION BOARD

BREAKERS FOR DISTRIBUTION BOARD(MCCB) WIRING BREAKERS



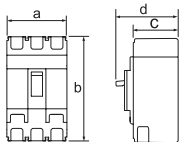
SERIES		DBH Series			DSB Series								
Frame Size(AF)		30AF			30AF			30AF			30AF		
Model		DBH32b	DBH32bL	DBH32C	DSB32b	DSB32s	DSB32h	DSB33b	DSB33s	DSB33h	DSB34b	DSB34s	DSB34h
Number of Poles & Element		2P2E			2P2E			3P3E			4P3E		
Rating	Rated Current A	15, 20, 30		20, 30	15, 20, 30								
	Rated Voltage AC(V)	220			220			460					
Ultimate Breaking Capacity	AC 460V	-			-			1.5	2.5	5	1.5	2.5	5
	220V	2.5			2.5	5	10	2.5	5	10	-		
External Dimensions(mm)	a	33			35			54			73.5		
	b	70		82	80			80			80		
	c	42	38	38	60			60			60		
	d	56			76			76			76		
Certificates Obtained		KS, CE			KS, CE			KS, CE			KS, CE		



BREAKERS FOR DISTRIBUTION BOARD(ELCB) ELECTRIC LEAKAGE BREAKERS



SERIES		DEH Series			DSE Series								
Frame Size(AF)		30AF			30AF			30AF			30AF		
Model		DEH32AL	DEH32Ab	DEH32b	DSE32b	DSE32s	DSE32h	DSE33b	DSE33s	DSE33h	DSE34b	DSE34s	DSE34h
Number of Poles & Element		2P2E			2P2E			3P3E			4P3E		
Rating	Rated Current A	15, 20, 30			15, 20, 30								
	Rated Voltage AC(V)	220			220			460					
	Rated Sensitivity Current mA	15, 30			15, 30			30, 100/200/500			30, 100/200/500		
	Rated Non-Tripping Current mA	7.5, 15			7.5, 15			15, 50/100/250			15, 50/100/250		
	Operating Time sec	Within 0.03 Second			Within 0.03 Second			Within 0.1 Second			Within 0.1 Second		
Ultimate Breaking Capacity	AC 460V	-			-			1.5	2.5	5	1.5	2.5	5
	220V	2.5			2.5	5	10	-			-		
External Dimensions(mm)	a	33		62	35			54			73.5		
	b	70		82	80			80			80		
	c	38	42	40.5	60			60			60		
	d	56		56	76			76			76		
Acquisitive standard		KS, CE			KS, CE			KS, CE			KS, CE		





									DB-F Series					
50AF			50AF			30AF			50AF		100AF			
DSE52b	DSB52s	DSB52h	DSB53b	DSB53s	DSB53h	DSB54b	DSB54s	DSB54h	DB32F	DB33F	DB52F	DB52F	DB102F	DB103F
2P2E		3P3E			4P3E			2P2E	3P3E	2P2E	3P3E	2P2E	3P3E	
15, 20, 30						(5,10), 15, 20, 30			15, 20, 30, 40, 50		60, 75, 100			
220		460			460			460		460				
-		1.5	2.5	5	1.5	2.5	5	-	(2.5)5	5		5		
2.5	5	10	2.5	5	10	-		(5)10	10	10		10		
35		54			73.5			50	75	50	75	50	75	
80		80			80			96		96		96		
60		60			60			60		60		60		
76		76			76			80		80		80		
KS, CE		KS, CE			KS, CE			KS, CE		KS, CE		KS, CE		



									DBE-F Series					
50AF			50AF			30AF			50AF		100AF			
DSE52b	DSE52s	DSE52h	DSE53b	DSE53s	DSE53h	DSE54b	DSE54s	DSE54h	DBE32Fb	DBE33F	DBE52Fb	DBE53F	DBE102Fb	DBE103F
2P2E		3P3E			4P3E			2P2F	3P3F	2P2F	3P3F	2P2F	3P3F	
15, 20, 30						15, 20, 30			15, 20, 30, 40, 50		60, 75, 100			
220		460			460			220	220-460/460	220	220-460/460	220	220-460/460	
15, 30		30, 100/200/500			30, 100/200/500			15, 30		15, 30		30		
7.5, 15		15, 50/100/250			15, 50/100/250			7.5, 15		7.5, 15		15		
Within 0.03 Second		Within 0.1 Second			Within 0.1 Second			Within 0.03 Second	Within 0.1 Second	Within 0.03 Second	Within 0.1 Second	Within 0.03 Second	Within 0.1 Second	
-		1.5	2.5	5	1.5	2.5	5	-	5	-	5	-	5	
2.5	5	10	-			-			10	10	10	10	10	10
35		54			73.5			50	75	50	75	50	75	
80		80			80			96		96		96		
60		60			60			60		60		60		
76		76			76			80		80		80		
KS, CE		KS, CE			KS, CE			KS, CE	KS, CE	KS, CE	KS, CE	KS, CE	KS, CE	

※ Please write "L" behind of the model name when order "Lug" type among the DSB(E) Series

Standard Model List



M O D E L			DM9C	DM12C	DM18C	
Rating KS C 4504	3-Phase Cage Motor	AC3	200-220V	2.2kW 11A	2.7kW 13A	3.7kW 18A
			380-440V	2.7kW 7A	4kW 9A	5.5kW 13A
			500-550V	2.7kW 6A	5.5kW 9A	5.5kW 13A
		AC4	200-220V	1.5kW 8A	2.2kW 11A	3.7kW 18A
			380-440V	2.2kW 6A	4kW 9A	4kW 9A
	Single Phase Motor	110V	0.4kW 11A	0.5kW 13A	0.75kW 18A	
		220V	0.8kW 11A	1kW 13A	1.5kW 18A	
	Resistance Load (DC1)	2-Pole Serial	110V	6A	10A	13A
			220V	3A	7A	8A
		3-Pole Serial	110V	8A	12A	18A
220V			8A	12A	18A	
Continuous Current AC 1(Ith)			25A	25A	40A	
Durability (10,000 Times)			Electrical	250	250	
			Mechanical	2500	2500	
External Operation Handle(Surface Type)			1a1b	1a1b	1a1b	
Auxiliary Contact	Side-on		DAU2Sb	DAU2Sb	DAU2Sb	
	Head-on		DAU2C, DAU4C	DAU2C, DAU4C	DAU2C, DAU4C	
Installation Method			For both screw and rail installations			
External Dimensions(mm) (W×H×D)			44×80.7×86.7			
Installation Dimensions(mm) (Width×Length)			31~36×49~65, 35×65			
Applied Model	Contactor	Reversible Type	DM9C-R	DM12C-R	DM18C-R	
		Standard	DMS9C	DMS12C	DMS18C	
	Switch	Reversible Type	DMS90-R	DMS12C-R	DMS18C-R	
		Enclosed Type	DMW9C	DMW12C	DMW18C	
Thermal Overload Relay		Standard	DTH22b			
		Independent Type	DTZ22b			



M O D E L			DM50C	DM65C	
Rating KS C 4504	3-Phase Cage Motor	AC3	200-220V	11kW 50A	15kW 65A
			380-440V	22kW 48A	30kW 65A
			500-550V	22kW 38A	37kW 60A
		AC4	200-220V	7.5kW 35A	11kW 50A
			380-440V	15kW 32A	22kW 47A
	Single Phase Motor	110V	-	-	
		220V	-	-	
	Resistance Load (DC1)	2-Pole Serial	110V	35A	35A
			220V	15A	15A
		3-Pole Serial	110V	50A	65A
220V			40A	50A	
Durability (10,000 Times)			Electrical	200	200
			Mechanical	1200	1200
External Operation Handle(Surface Type)			2a2b	2a2b	
Auxiliary Contact	Side-on		DAU2Sb	DAU2Sb	
	Head-on		DAU-2C, DAU-4C	DAU-2C, DAU-4C	
Installation Method			For both screw and rail installations		
External Dimensions(mm) (W×H×D)			79×109×119.5		
Installation Dimensions(mm) (Width×Length)			41~47×92~100		
Applied Model	Contactor	Reversible Type	-	-	
		Standard	-	-	
	Switch	Reversible Type	-	-	
		Enclosed Type	-	-	
Thermal Overload Relay		Standard			
		Independent Type			

NOTE 1) DTH85 is singleness type and using for alternation.



DM22C	DM32C	DM40C	DM48C
4kW 20A	5.5kW 26A	7.5kW 35A	11kW 48A
7.5kW 20A	11kW 25A	15kW 32A	15kW 32A
7.5kW 17A	11kW 25A	15kW 26A	15kW 26A
3.7kW 18A	4.5kW 20A	5.5kW 25A	7.5kW 35A
5.5kW 13A	7.5kW 17A	11kW 24A	15kW 32A
0.9kW 20A	1.2kW 26A	1.7kW 35A	-
1.8kW 20A	-	-	-
15A	25A	25A	35A
12A	12A	12A	15A
20A	25A	35A	50A
20A	22A	30A	45A
40A	50A	60A	70A
250	200	200	200
2500	1500	1500	1500
1a1b	2a2b	2a2b	2a2b
DAU2Ab	DAU2Ab	DAU2Ab	DAU2Ab
DAU2C, DAU4C	DAU2C, DAU4C	DAU2C, DAU4C	DAU2C, DAU4C
For both screw and rail installations			
44×80.8×86.7	66×85.5×94.5		35×60, 35×75
DM22C-R	DW32C-R	DM40C-R	DM48C-R
DMS22C	DMS32C	DMS40C	DMS48C
DMS22C-R	DMS32C-R	DMS40C-R	DMS48C-R
DMW22C	DMW32C	DMW40C	DMW48C
DTH22b	DTH40		
DTZ22b	DTZ40b		



DM75C	DM85C	DM100C
18.5kW 75A	19kW 80A	25kW 100A
37kW 75A	37kW 80A	50kW 100A
37kW 64A	45kW 75A	55kW 80A
13kW 55A	15kW 65A	19kW 80A
25kW 52A	30kW 62A	37kW 75A
-	-	-
-	-	-
50A	50A	80A
20A	20A	50A
70A	80A	100A
55A	60A	80A
200	200	200
1200	1200	1200
2a2b	2a2b	2a2b
DAU2Sb	DAU2Sb	DAU2Sb
DAU-2C, DAU-4C	DAU-2C, DAU-4C	DAU-2C, DAU-4C
For both screw and rail installations		
94×140.5×134.4		
55~60×130		
-	-	-
-	-	-
-	-	-
-	-	-
DTH85(NOTE 1)		
-		-

 **Standard Model List**



M O D E L			DMC9b	DMC12b	DMC8b	
Rating KS C 4504	3-Phase Cage Motor	AC3	200-220V	2.2kW 11A	2.7kW 13A	3.7kW 18A
			380-440V	2.7kW 7A	4kW 9A	5.5kW 13A
			500-550V	2.7kW 7A	5.5kW 9A	5.5kW 13A
		AC4	200-220V	1.5kW 8A	2.2kW 11A	3.7kW 18A
			380-440V	2.2kW 6A	4kW 9A	4kW 9A
	Single Phade Motor	110V	0.4kW 11A	0.5kW 13A	0.75kW 18A	
		220V	0.8kW 11A	1kW 13A	1.5kW 18A	
	Resistance Load (DC1)	2-Pole Serial	110V	6A	10A	13A
			220V	3A	7A	8A
		3-Pole Serial	110V	8A	12A	18A
220V			8A	12A	18A	
Continuous Current AC 1(Ith)			25A	25A	40A	
Durability (10,000 Times)			Electrical	250	250	
			Mechanical	2500	2500	
External Operation Handle(Surface Type)			1a1b	1a1b	1a1b	
Auxiliary Contact	Side-on		DAU2Sb			
	Head-on		DAU2Sb, DAU4b			
Installation Method			For both screw and rail installations			
External Dimensions(mm) (W×H×D)			44×80×86.7			
Installation Dimensions(mm) (Width×Length)			30~35×48~60 / 35×60			
Applied Model	Contactor	DC Operation Type	DMD9b	DMD12b	DMD18b	
		Reversible Type	DMC9b-R	DMC12b-R	DMC18b-R	
	Switch	Open Type	DMS9b	DMS12b	DMS18b	
		Reversible Type	DMS9b-R	DMS12b-R	DMS18b-R	
		Enclosed Type	DMW9b	DMW12b	DMW18b	
		Standard	DTH22b			
Thermal Overload Relay		Independent Type	DTH22b			



M O D E L			DMC50	DMC65	DMC75	DMC85	
Rating KS C 4504	3-Phase Cage Motor	AC3	200-220V	11kW 50A	15kW 64A	18.5kW 75A	19kW 80A
			380-440V	11kW 50A	30kW 65A	37kW 75A	37kW 80A
			500-550V	11kW 50A	37kW 60A	37kW 64A	45kW 75A
		AC4	200-220V	11kW 50A	11kW 50A	13kW 55A	15kW 65A
			380-440V	11kW 50A	22kW 47A	25kW 52A	30kW 62A
	Single Phade Motor	110V	-	-	-	-	
		220V	-	-	-	-	
	Resistance Load (DC1)	2-Pole Serial	110V	35A	50A	50	80A
			220V	15A	20A	20	50A
		3-Pole Serial	110V	50A	70A	80	100A
220V			40A	55A	60	80A	
Continuous Current AC 1(Ith)			80A	110A	135	150A	
Durability (10,000 Times)			Electrical	150	150	150	
			Mechanical	1000	1000	1000	
External Operation Handle(Surface Type)			2a2b	2a2b	2a2b	2a2b	
Auxiliary Contact	Side-on		DAU2Sb				
	Head-on		DAU2b, DAU4b				
Installation Method			For both screw and rail installations				
External Dimensions(mm) (W×H×D)			94×120×115.7				
Installation Dimensions(mm) (Width×Length)			50~60×100 / 60×95				
Applied Model	Contactor	DC Operation Type	-	-	-	-	
		Reversible Type	DMC50-R	DMC50-R	DMC50-R	-	
	Switch	Open Type	DMS50	DMS50	DMS50	DMS32b	
		Reversible Type	DMC50-R	DMC50-R	DMC50-R	-	
		Enclosed Type	DMS50	DMS50	DMS50	-	
		Standard	DTH858 (NOTE 1)				
Thermal Overload Relay		Independent Type	HRD075				

NOTE 1) DTH85 is singleness type and using for alternation.

NOTE 2) HRD 150, 180, DTH220 standard model is produced as singleness type.



DMC2b	DMC32b	DMC40b	DMC48b
4kW 20A	5.5kW 26A	7.5kW 35A	11kW 48A
7.5kW 20A	11kW 25A	15kW 32A	15kW 35A
5.5kW 17A	11kW 20A	15kW 25A	15kW 28A
3.7kW 18A	4.5kW 20A	5.5kW 25A	7.5kW 30A
5.5kW 13A	7.5kW 17A	11kW 24A	11kW 28A
0.9kW 20A	1.2kW 26A	1.7kW 35A	-
1.8kW 20A	-	-	-
15A	25A	25A	35A
12A	12A	12A	15A
20A	25A	35A	50A
20A	22A	30A	40A
40A	50A	60A	70A
250	200	200	200
2500	1500	1500	1500
1a1b	2a2b	2a2b	2a2b
DAU2Sb			
DAU2Sb, DAU4b			
For both screw and rail installations			
68×82×94.4			
30~35×48~60 / 35×60			
DMD22b	DMD32b	DMD40b	DMD48b
DMC22b-R	DMC32b-R	DMC40b-R	DMC48b-R
DMS22b	DMS32b	DMS40b	DMS48b
DMS22b-R	DMS32b-R	DMS40b-R	DMS48b-R
DMW22b	DMW32b	DMW40b	DMW48b
DTH40			
DTZ40			



DMC100	DMC125	DMC150	DMC180	DMC220
25kW 100A	30kW 125A	37kW 150A	45kW 180A	55kW 230A
50kW 100A	60kW 120A	75kW 150A	90kW 180A	110kW 230A
55kW 80A	60kW 90A	90kW 140A	110kW 180A	132kW 200A
19kW 80A	22kW 93A	30kW 125A	37kW 150A	45kW 180A
37kW 75A	45kW 90A	55kW 110A	75kW 150A	90kW 180A
-	-	-	-	-
-	-	-	-	-
80A	100A	100A	150A	150A
50A	100A	100A	150A	150A
100A	150A	150A	180A	220A
80A	15A	150A	180A	220A
150A	180A	200A	230A	260A
100	100	100	100	100
500	500	500	500	500
2a2b	2a2b	2a2b	2a2b	2a2b
-			-	
For both screw and rail installations			For both screw and rail installations	
100×157.4×146.5			154×170×170	
80×100 / 90×125			120×120	
-	-	-	-	-
-	-	-	-	-
DMS40b	DMS48b	DMS150	DMS180	DMS220
-	-	-	-	-
-	-	-	-	-
HRD150 (NOTE 2)		HRD180 (NOTE 2)		DTH220 (NOTE 2)
-		-		-

08 → → THERMAL OVERLOAD RELAYS

Model and Rating



Division	Model	DTH22b			DTH40			DTH85			HRD150			HRD180			DTH220		
		Adjustment Range			Adjustment Range			Adjustment Range			Adjustment Range			Adjustment Range			Adjustment Range		
Rated Current(A)	Nominal Rating	Minimum	Medium	Maximum	Minimum	Medium	Maximum	Minimum	Medium	Maximum	Minimum	Medium	Maximum	Minimum	Medium	Maximum	Minimum	Medium	Maximum
			0,14	0,1	0,14	0,16													
0,21	0,16		0,21	0,25															
0,33	0,25		0,33	0,4															
0,52	0,4		0,52	0,63															
0,82	0,63		0,82	1															
1,3	1		1,3	1,6															
2,1	1,6		2,1	2,5															
3,3	2,5		3,3	4															
5	4		5	6	4	5	6												
6,5	5		6,5	8	5	6,5	8												
7,5	6		7,5	9	6	7,5	9												
8,5	7		8,5	10	7	8,5	10	7	8,5	10									
11	9		11	13	9	11	13	9	11	13									
15	12		15	18	12	15	18	12	15	18									
19	16		19	22	16	19	22	16	19	22									
22					18	22	26	18	22	26									
30					24	30	36	24	30	36									
34					28	34	40	28	34	40									
42					34	42	50	34	42	50	34	42	50						
55								45	55	65									
56										45	56	67							
65							54	65	75										
67										54	67	80							
74							63	74	85										
80										65	80	95	65	80	95	65	80	100	
110										90	110	130	90	110	130	85	107	125	
130										105	130	155	105	130	155	100	130	160	
155													125	155	185	120	150	180	
200																160	200	240	
Element Part	2-Element	Standard			Standard			Standard			Standard			Standard			Standard		
	3-Element	Semi-Standard			Semi-Standard			Semi-Standard			Semi-Standard			Semi-Standard			Semi-Standard		
Auxiliary Contact	1a1b			1a1b			1a1b			1c			1c			1a1b			
Return Type	For Both Manual/Automatic			For Both Manual/Automatic			For Both Manual/Automatic			For Both Manual			For Both Manual			For Both Manual/Automatic			
Power Consumption	1,8VA/Pole			2,0VA/Pole			3,5VA/Pole			2,3VA/Pole			2,3VA/Pole			2,3VA/Pole			
External Dimensions(WHD)	43 X 72 X 90,5			54 X 75,5 X 92			70 X 87 X 102,5			124 X 60 X 97			129 X 84 X 97			154 X 114 X 180			
Independent Installation Unit	DZ22b			DZ40			-			-			-			DTH220/3			
Applied Model	3-Element Type	DTH22b/3			DTH40/3			DTH85/3			HRD150/3			HRD180/3			DTK220		
	Phase Failure Protection	DTK22b			DTK40			DTK85			-			-			-		
	Independent Type	DTZ22b			DTZ40			-			-			-			-		
Possible Combinations for Electronic Contactor	DMC9b,12,12b,18b,22b			DMC32b,40b,48b			DMC50,65,75,85			DMC100,125,150C			DMC150,180			DMC220			
Electronic Contactor Combinations	DMC9b,12,12b,18b,22b			DMC32b,40b,48b			DMC50,65,75,85			DMC100,125,150C			DMC150,180			DMC220			

“Dong-A Electric...

Challenging with Innovation and Creativity!”

We promise to fulfill our role and duty to become the Dong' A Electric Device that develops evermore through participatory and transparent management by customers and all employees and staffs.



External Dimensions and Contact Form

Model	External Dimensions	Contact Form
DTH22b		
DTH40		
DTH85		
HRD150		
HRD180		
DTH220		

09 → → AUXILIARY RELAYS

Rating



M O D E L			DMC12	DAR(D)4b	DAR(D)6b	DAR(D)8b
Contact Form			4a(1a),3a1b(1b)	4a,3a1b,2a2b,1a3b,4b	6a,5a1b,4a2b,3a3b,2a4b	8a,7a1b,6a2b,5a3b,4a4b
Rated Insulation Voltage(Ui)			690V			
Conductive Current(AC1)			16A			
Alternating Current	Rating By Grade		AC15(11)(Coil Load)	AC15(11)(Coil Load)		AC12(13) (Resistance Load)
	Rated Current(A)	AC110V	6	6		10
		AC220V	3	3		8
		AC440V	1.5	1.5		5
		AC550V	1.2	1.2		5
	Closed Path, Braking Current(A)	AC110V	60	60		66
		AC220V	33	33		33
		AC440V	16.5	16.5		16.5
AC550V		13.2	13.2		13.2	
Direct Current Rating	Rating By Grade		DC13(11) (Coil Load)	DC13(11) (Coil Load)		DC12(14) (Resistance Load)
	Rated Current(A)	DC24V	3	3		5
		DC48V	1.5	1.5		3
		DC110V	1.1	1.1		2.5
		DC220V	0.55	0.55		1
	Closed Path, Braking Current(A)	DC24V	3.7	3.7		-
		DC48V	1.8	1.8		-
		DC110V	1.4	1.4		-
DC220V		0.7	0.7		-	
Number of Poles			4	4	6	6
Operating frequency(Number of operations/hour)			1800		1800	
Durability (10,000 Times)	AC15(11)	AC220V	50	50		
		AC440V	50	50		
	AC12(13)	AC220V	25	25		
		AC440V	25	25		
	DC13(11)	DC12~220V	50	50		
	DC12(14)					

10 → → CONTACTOR FOR ELECTRICAL SHOCK PREVENTION | Rating and Performance

Rating and Performance



M O D E L		DMP150	DMP250
Rated Conductive Current Ith (A)		300	500
Rated Conductive Current(A) AC110V/220V		150	250
Performance	Electrical	25 million uses	25 million uses
	Mechanical	250 million uses	250 million uses
Standard Coil Voltage(V)		110, 220, 380	
Contact Form	Major Contact	1Pole	1Pole
	Auxiliary Contact	2a2b	2a2b
Weight(kg)		1.15	1.15

REVERSIBLE MAGNETIC CONTACTORS ←← 11

Single Body Type



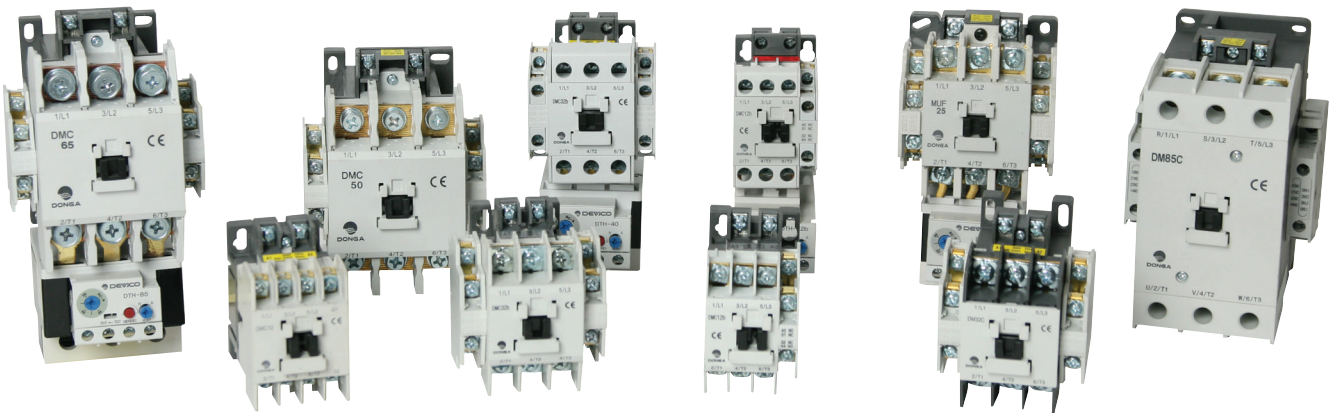
MODEL	Electronic Contactor	DMH10	DMH20
Rated Capacity(KW) (AC3,3-Phase Cage Motor)	AC200~220V	2.7	4
	AC380~440V	4	7.5
	AC500~550V	5.5	7.5
Rated Operational Current(A) (AC3,3-Phase Cage Motor)	AC200~220V	13	20
	AC380~440V	9	20
	AC500~550V	9	17
Rated Conductive Current(A) lth (A)		20	25

AUXILIARY CONTACT UNITS ←← 12

Type and Rated Capacity



Type	Head-on(Head-on)				Side-on (Side-on)
Model	DAU2b	DAU2C	DAU4b	DAU4C	DAU2Sb
Number of Poles	2	2	4	4	2
Contact Form	2a, 1a1b, 2b	2a, 1a1b, 2b	4a, 3a1b, 2a2b, 1a3b, 4b	4a, 3a1b, 2a2b, 1a3b, 4b	1a1b
Applied Model	DMC9b~85b	DM9C~100C	DMC9b~85b	DM9C~100C	DM9C~48C DM50C~100C DMC9b~85b



13 → → MAGNETIC CONTACTORS FOR MACHINE

Model and Rating



Model	DMC20A	DMC25A	DMC32A	DMC20C	DMC25C	DMC32C
Number of Poles	2	2	2	3	3	3
Rated Conductive Current(A)	30	40	50	30	40	50
Rated Operational Current(A)	AC220V	20	25	30	20	25
	AC440V	17	21	26	17	21
Ultimate Breaking Capacity(kW)	1 ϕ 110V	0.9	1.2	2.2	0.9	1.2
	1 ϕ 220V	1.8	2.2	5.5	1.8	2.2
	3 ϕ 220V	4	5.5	9.5	4	5.5
Standard Coil Voltage(VAC)	24~550(kind of 10)			24~550(kind of 10)-		
Contact Form	2A			3A, 2A1b		
Weight(kg)	0.23			0.25		

14 → → PHASE-ONLY MAGNETIC CONTACTORS

new

Rating and Performance

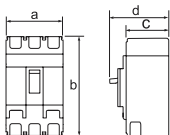


Model	DMC-10P2	DMC-20P2	DMC-25P2	DMC-30P2	DMC-35P2	DMC-40P2
	10A	20A	25A	30A	35A	40A
Number of Poles	2	2	2	2	2	2
Contact Form	2a	2a	2a	2a	2a	2a
Rated Insulation Voltage(V)	AC	690				
	DC	250				
Rated Operational Current(A)	200~220V	10	20	25	30	35
	380~440V	8	17	21	23	26
	500~550V	6	14	17	21	23
Rated Conductive Current(A)	20	30	35	40	45	50
External Dimensions	74×49×62					
Weight(kg)	0.19					

new

Frame size 1600AF


Model		DB1603Sa		
Number of poles		3		
Rated current In		1000, 1250, 1600		
Rated insulation voltage Ui		690V		
Rated operating voltage Ue		400V		
Icu 400V/50HZ O-CO (KA) Rated ultimate short-circuit breaking capacity		65	85	100
Ics 400V/50HZ O-CO-CO (KA) Rated service short-circuit breaking capacity (Ics = 0.75Icu)		50	63.75	75
Rated Insulfion Voltage (V)		690		
Uimp (V) Rated impulse withstand voltage		8000		
Dielectric property (V)		3000		
Endurance	Total cycles	3000		
	Electrical endurance	500		
	Mechanical endurance	2500		
Ionization distance (mm)		≤80/0		
Over current trip unit	Thermal magnetic release	O		
Utilization category	Intelligent trip unit	O		
	Main circuit	B		
	Auxiliary circuit	AC-15		
Accessories	Auxiliary switch AX	○		
	Alarm switch AL	○		
	Shunt trip SHT	○		
	Direct rotary handle DH	○		
	Terminal shield	○		
	Insulation barrier	○		
External dimensions (mm)	W (a)	210		
	L (b)	406		
	H (c)	138.5		



new

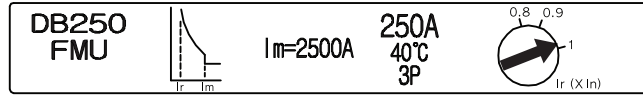


new

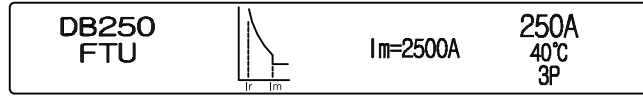


Frame Size(AF)			50AF		100F		250AF		630AF		
Model			DB53La	DB54La	DB103La	DB104La	DB203La	DB204La	DB632La	DB633La	DB634La
Number of Poles			3	4	3	4	3	4	2	3	4
ZCT Built-in			-		-		-		-		
Rating	Rated Current	A	15, 20, 30, 40, 50		15, 20, 30, 40, 50, 60, 80, 100		125, 150, 160, 175, 200, 225, 250		400, 500, 600, 630		
	Rated Voltage	AC(V)	600		600		600		600		
		DC(V)	250		250		250		250		
	Rated Insulation Voltage	V	690		690		690		690		
Ultimate Breaking Capacity(kA)	AC	600V	35		35		35		30		
KS C 8321(Sym)		480/500V	42		42		42		65		
IEC60947-2(Icu)		460V	65		65		65		85		
Ics=0.5Icu		415V	65		65		65		85		
		380V	65		65		65		100		
		220V	125		125		125		125		
	DC	250V	40		40		40		40		
		125V	60		60		60		60		
Trip Unit(Thermal-Magnetic)											
	Adjustable-thermal, Fixed-magnetic	FMU	○		○		○		○		
Overload protection(thermal)											
	Current setting(A) Ir	FMU	Adjustable 0.8 to x In								
Short - circuit protection(magnetic)											
	Current setting(A) Im	FMU	Fixed 10 x In								
Accessories (NOTE 1)	Auxiliary switch	AX	○		○		○		○		
	Alam switch	AL	○		○		○		○		
	Shunt trip	SHT	○		○		○		○		
	Direct handle	DH	-		-		-		-		
	Terminal shield		-		-		-		-		
	Insulation barrier		○		○		○		○		
External Dimensions(mm)		a	105	140	105	140	105	140	140	185	
		b	165		165		165		275		
		c	78.5		78.5		78.5		95		
		d	110		110		110		154		
		Certificates Obtained		Safety Certificate		Safety Certificate		Safety Certificate		Safety Certificate	

FMU
 - DB250 : Adjustable-thermal / Fixed-magnetic



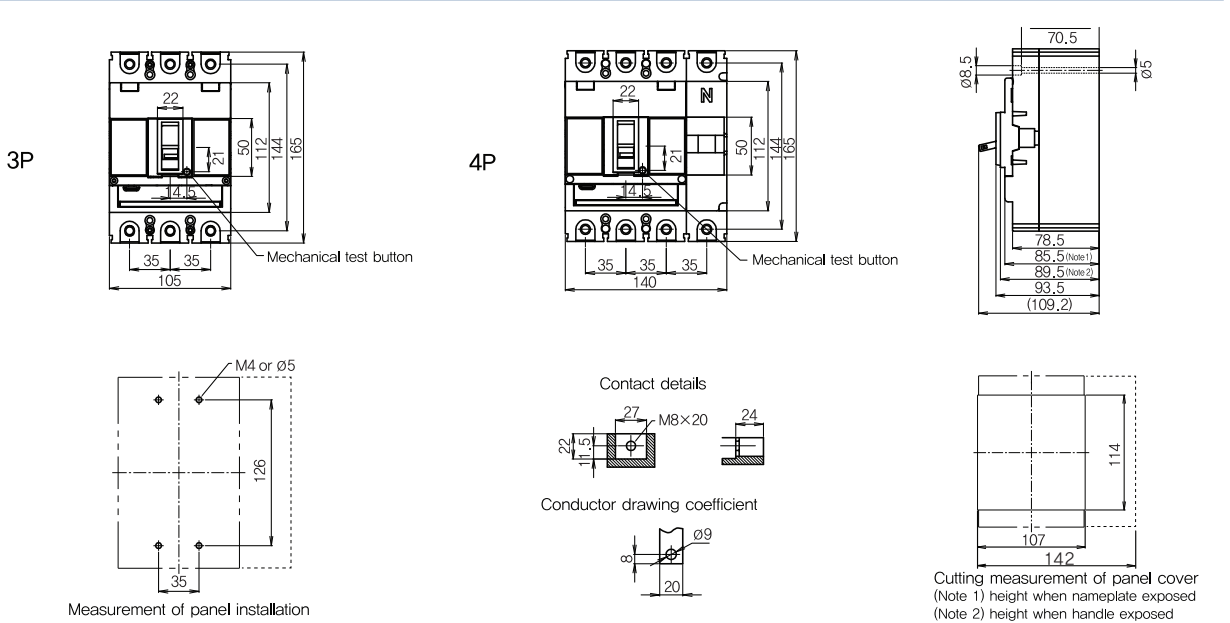
FTU
 - DB250 : Fixed-thermal / Fixed-magnetic



External Dimensions and Contact Form

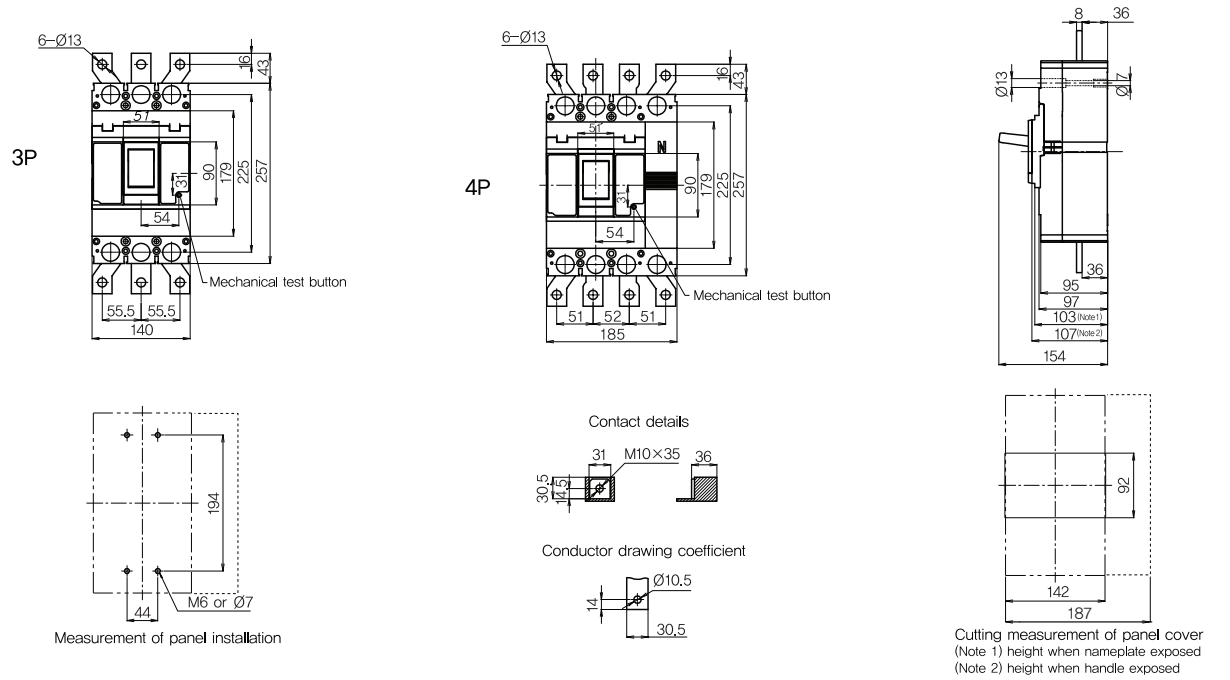
Model	DB53La DB103La DB203La / DB54La DB104La DB204La
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External Dimensions



Model	DB632La / DB633La / DB634La
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External Dimensions





DCS/H/L

Diversification

Diversification is given to set circuit breaking condition including electric current in a long time delay, in a short time delay, in an instantaneous trip and in ground fault. This provides a variety of choices satisfaction of detailed needs.

Safety

The energy closing is stored at springs, which brings about rapid and precise operation (limited to Motor Spring, Charge Type)

DCS Standard Type

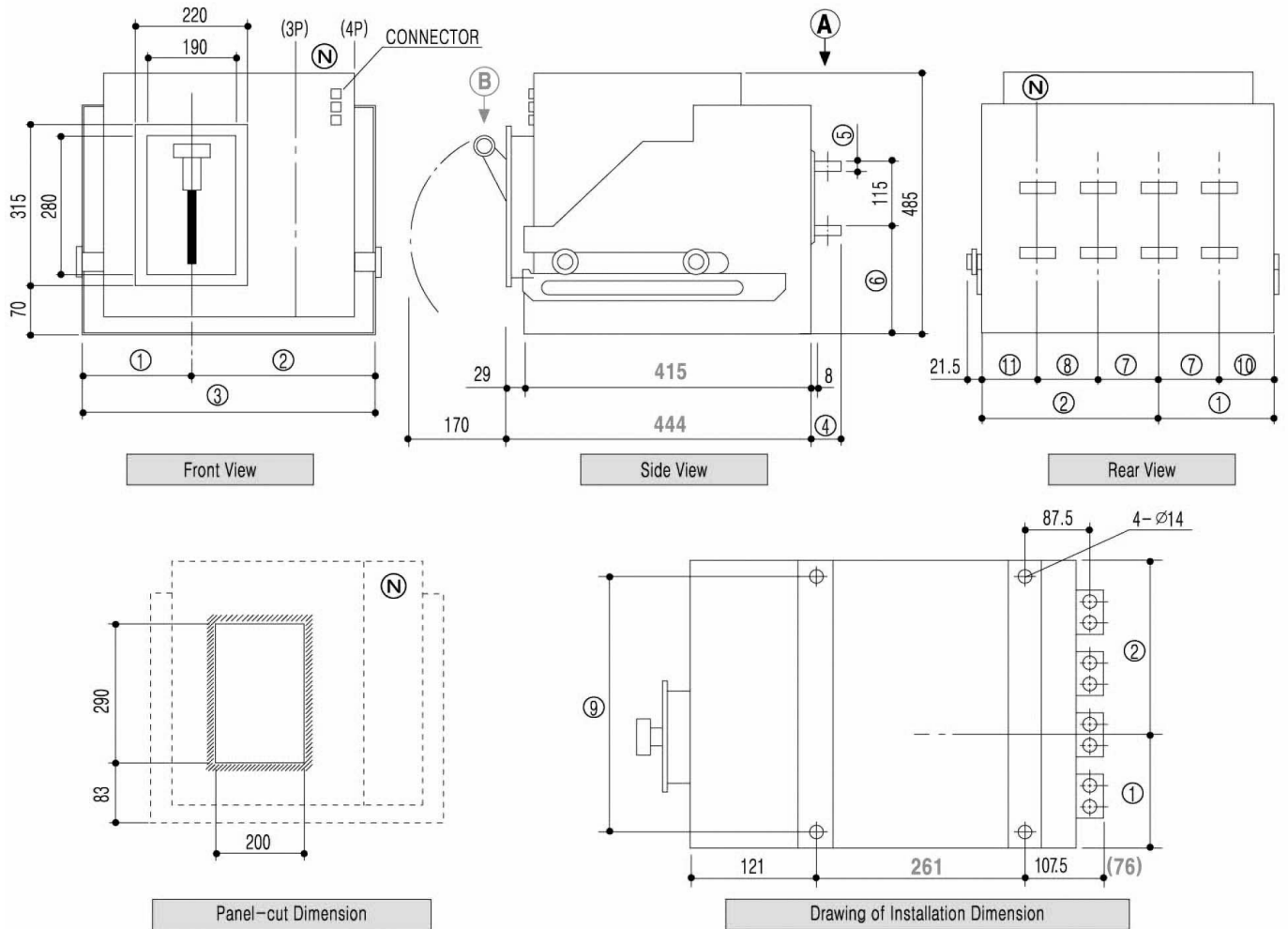
Type	Model	DCS 600/800	DCS 1000	DCS 1200	DCS 1600	DCS 2000	DCS 2500	DCS 3200	DCS 4000		
Frame size (A)		630/800	1000	1250	1600	2000	2500	3200	4000		
Rated insulation voltage (VAC)		1000	1000	1000	1000	1000	1000	1000	1000		
Rated operating voltage (VAC)		690	690	690	690	690	690	690	690		
Number of Poles (P)		3 4	3 4	3 4	3 4	3 4	3 4	3 4	3 4		
Rated current (A)	Base current setting	1.0	630/800	1000	1250	1600	2000	2500	3200	4000	
		0.8	504/604	800	936	1280	1600	2000	2560	3200	
		0.63	397/504	630	787	1008	1260	1575	2016	2520	
		0.5	315/400	500	625	800	1000	1250	1600	2000	
Rated current of neutral pole (A)		630/800	1000	1250	1600	2000	2000	2000	2000		
Rated service short circuit (Ics)	IEC	With instantaneous Trip	690	30/63	30/63	30/63	35/73.5	42/88.2	50/105	50/105	50/105
			600	30/63	35/73.5	35/73.5	42/88.2	50/105	65/143	65/143	65/143
			500	35/73.5	40/84	40/84	50/105	50/105	65/143	65/143	65/143
			440	42/88.2	45/94.5	50/105	50/105	65/143	65/143	65/143	65/143
			380	42/88.2	50/105	50/105	65/143	65/143	75/165	75/165	75/165
Rated short circuit making capacity (Icm)	BS	Without instantaneous	690	30/63	35/73.5	35/73.5	35/73.5	50/105	50/105	50/105	
			600	35/73.5	40/84	40/84	42/88.2	50/105	50/105	50/105	50/105
			5000이하	42/88.2	45/94.5	50/105	50/105	65/143	65/143	65/143	65/143
Rated short time withstand current (Icw)		42	45	50	50	65	65	65	65		
Maximum total breaking time (ms)		40	40	40	40	40	40	40	40		
Closing time (ms)		60	60	60	60	60	80	80	80		
Closing operating current (A)		5	5	5	5	5	5	5	5		
Breaking current (A)		5	5	5	5	5	5	5	5		
Weigh (kg)	Fixed Type	50 62	53 66	53 66	56 68	62 70	69 75	81 90	90 100		
	Drawout Type	77 87	82 89	82 89	84 95	94 100	104 110	113 125	130 145		

※Standard : Rack out selective, Insert coil, Trip coil, Auxilary switch(3a3b), Manual lever(exposed)

※Optional : OCR, OCGR, Auxilaty switch(4a4b), UVT, OCR output terminal, Counter gauge, I/O compatibility

※ R.S.T.N busbar is optional.

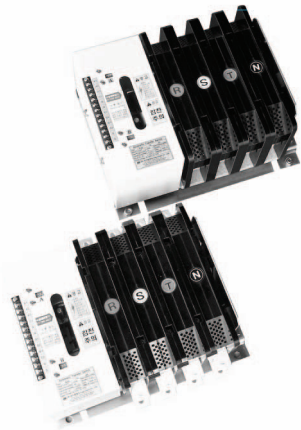
Dimension Drawout Type



Dimension table

Unit : mm

TYPE	DCS, DCH, DCL															
	600/800		1000		1200		1600		2000		2500		3200		4000	
Current capacity (A)	600/800		1000		1200		1600		2000		2500		3200		4000	
number of poles (P)	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
No. ①	169		169		169		191.5		214		236.5		274		319	
No. ②	169	259	169	259	169	259	191.5	281.5	214	304	236.5	341.5	274	379	319	424
No. ③	338	428	338	428	338	427	383	473	428	518	473	578	548	653	638	743
No. ④	43		43		43		43		53		53		53		78	
No. ⑤	16		16		16		16		20		20		20		20	
No. ⑥	205		205		205		205		207		207		207		207	
No. ⑦	90		90		90		105		120		135		160		190	
No. ⑧		90		90		90		97.5		105		120		132.5		147.5
No. ⑨	230	320	230	320	230	320	275	365	320	410	365	470	440	545	530	635
No. ⑩	79		79		79		86.5		94		101.5		114		129	
No. ⑪	79	79	79	79	79	79	86.5	79	94	79	101.5	86.5	114	86.5	129	86.5



TS, TN Type Functions and Features

1. Excellent latching equipment.
It is reliably operated by the excellent latching mechanism. Consumes small amount of current.
2. Has an ample current flow capability
Temperature rising value is low because the main contact has been specifically designed according to standard process. Terminal is simply wired for easy connection.
3. Two-Coil Method
Adopted two-coil method, which will correspond 2 different power source (A and B) selectively.
For example: A power source is AC220V where as B power source is DC 100V.

Forte

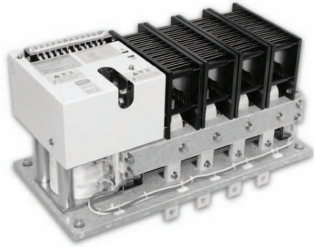
1. Outstanding performance using excellent latching mechanism.
2. Maximizes corresponding current with the minimum operating current.
3. Closing and breaking is superbly done. closing capacity is 12 times more than rated current.
4. Compact and light weight. Suitable for emergency power supply facilities.
5. Suitable to switch from AC to DC or vice versa.

Specification

Rating		Type	DA 61 – TS, TN		DA 62– TS, TN		DA 64 – TS, TN	
Rated Voltage (V)		AC 690 V & DC 125V						
Rated Current (A)		100		200		400		
Connection		FRONT type & BACK type						
Numver of Pole (P)		3	4	3	4	3	4	
Weight (kg)	FRONT type	13	14	13	15	18	21	
	BACK type	13	14	13	15	18	21	
Opening time		0.06 sec						
Charge over time		0.08 sec						
Opening Current	AC 100V / 110V	10		10		16		
	AC 200V / 220V	5		5		8		
	DC 100V / 110V	10		10		16		
Performance	Switching capacity	AC : 3 [10xle Close / 8 xle Open cosØ = 0.35] DC : 1 [1.1xle Close / 1.1 xle Open]						
	Switching frequency	150 times / hour						
Rated shot-time current		5 kA				5 kA		
Short circuit peak value		12.5 kA				25 kA		



MS, MSN Type Functions and Features



1. The unit is designed to eliminate frequent defective works by effectively operating a grounding failure protection device.
2. The grounding effect of A.C. power source improved.
3. The danger of electric shocks arising from the ground fault accident came reduced.
4. It is designed to protect the danger of occurrence of accidents caused by phase difference effectively, especially at single phase-using points.
5. Rare occurrence of overcurrent or of arc provides the high effect protecting connecting devices from being damaged.
6. Error signals make it available to check with closing and breaking operation.

Forte

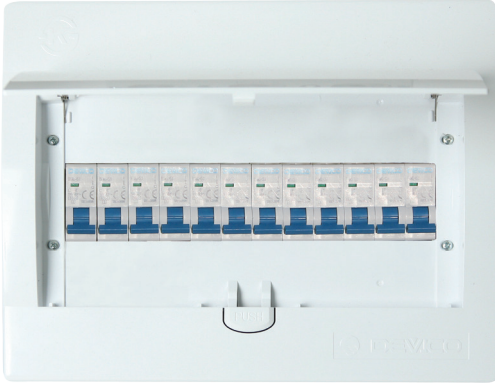
1. It has one coil, one operating contact, and one arcing chamber.
2. Specifically designed contact structure will stand out in melting over current strength.
3. Requires very small space for occupancy.

Specification

Rating		Type		DA 64/66		DA 68		DA 610		DA 612		DA 616		DA 620		DA 625		DA 632		DA 640	
		MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN	MS	MSN
Rated Voltage (V)		AC 690V & DC 125V																			
Rated Current (A)		400/600		800		1000		1200		1600		2000		2500		3200		4000			
Connection		BACK type																			
Number of Pole (P)		3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4	3	4
Weight (kg)		36	41	38	50	44	52	47	57	55	68	63	73	87	105	96	120	170	210		
Opening time		≤ 0.09 sec																			
Charge over time		≤ 0.12 sec																			
Opening Current	AC 110V / 110V	10	10	10	12	16	20	20	20	24	24	36	40	60	60	80	80	80	80		
	AC 200V / 220V	5	5	5	6	8	10	10	10	12	12	18	20	30	30	40	40	40	40		
	DC 100V / 110V	10	10	10	12	16	20	20	20	24	24	36	40	60	60	80	80	80	80		
Performance	Switching capacity	AC : 3 [10xle Close / 8 xle Open cosØ = 0.35] DC : 1 [1.1xle Close / 1.1 xle Open]																			
	Switching frequency	150 times / hour										30 time / hour									
Rated Current (A)		400	600	800		1000		1200		1600		2000		2500		3200		4000			
Rated shot-time current		10kA		15kA		22kA		25kA		35kA		50kA									
Short circuit peak value		25kA		37.5kA		50kA		62.5kA		87.5kA		125kA									

new

HOME PANEL BOARD



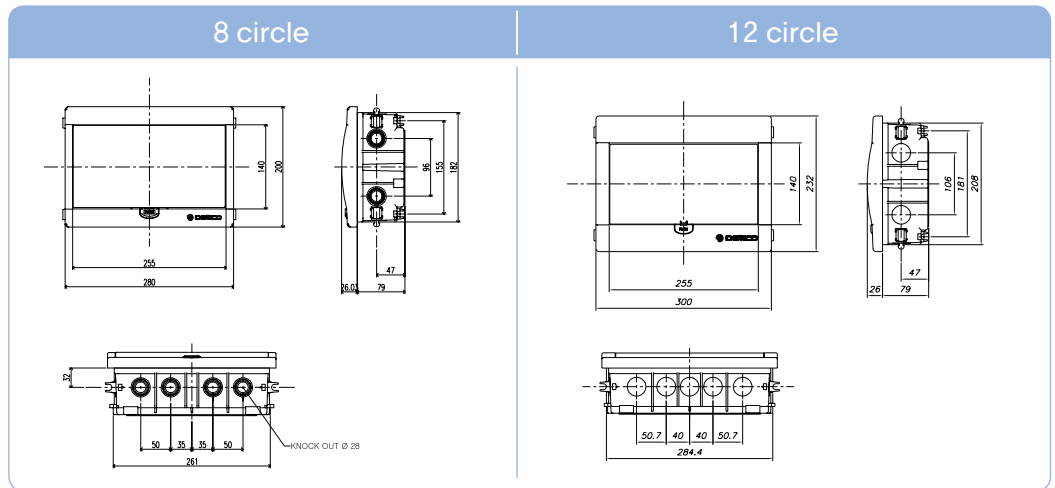
Feature

- Optimal for house branch circuit.
- Wide range for choice according to the diversification of rated current
- Excellent breaking performance by embedding the solenoid of current-limit structure (6kA at 220V)

General Style



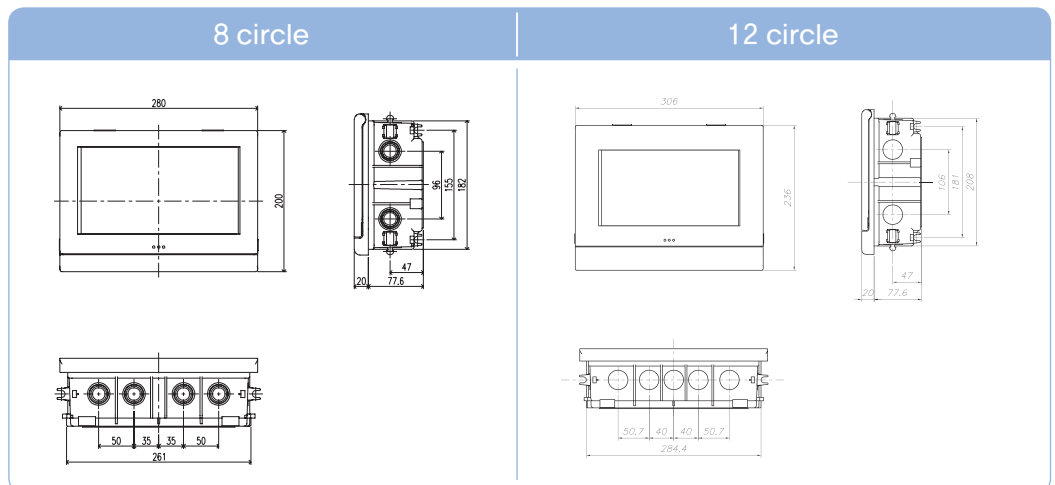
Circle	Size
8 circle	280x200x105
12 circle	300x232x105



Frame Style



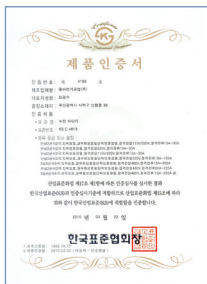
Circle	Size
8 circle	280x200x97.6
12 circle	306x236x97.6



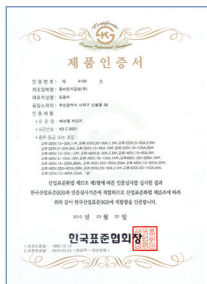
- Dong A Electric Device Co., LTD.
- Head Office : 38, Shinpyung-dong, Sang-gu, Busan, Korea
- Part of Industry : Manufacture and Sale of Industrial & Household Electric Device
- Major Product
 - MCCB(Molded Case Circuit Breakers)
 - ELCB(Earth Leakage Circuit Breakers)
 - MC(Magnetic Contactors)
 - MS(Magnetic Switches)
 - TOR(Thermal Overload Relays)
 - Auxiliary Relays
- Korea Agent : 81, Distributor : 122
- Oversea Agent & Distributor : 3
- Major Export Country : Veitnam, Chile, Dominica etc, 12 countries

- 2014. 06 Merger and acquisition with seoil
- 2013. 06 Acquired KS Mark (Household Panel Board)
- 2010. 08 Acquired CE Mark of all product (TUV Company in German)
- 2008. 10 Acquired Certificate (MCCB) by Korea Electrical Safety Corporation
- 2007. 05 Acquired ZCT Built-in MCCB MEP
- 2006. 06 Acquired Excellent Product Certificate for ZCT Built-in MCCB
- 2005. 11 Acquired INNO-BIZ Certificate
- 2005. 11 Awarded MOCIE Award in Relation to Development of New Technology and Implementation of Developed Technology
- 2005. 11 Awarded MOCIE Award in Relation to Completion of 220V Voltage Booster Project
- 2005. 08 Acquired Affiliated R&D Institute Certificate
- 2004. 09 Awarded the Prime Minister Award at Electricity Safety Promotion Contest, Hosted by Korea Electrical Safety Corporation
- 2004. 04 Acquired Excellent Quality Certificate (EM MARK)
- 2002. 07 Acquired CE Certificate (DMC12~85, HRD010~075, DMS12~85)
- 2002. 07 Acquired Electromagnetic Switch CE/TUV Certificate (DMC12~85, HRD010~075)
- 2001. 09 Acquired CCC Certificate (MUF20CA, MUF20CE)
- 2000. 03 Acquired VDE(Germany) Certificate (MUF20C)
- Designated as the Exporting Corporation by KOTRA
- 1999. 09 Established R&D Institute
- 1997. 04 Acquired ISO 9001
- 1985. 10 Acquired KS 4613/8321 Mark
- 1984. 03 Acquired KR Mark by Korea Register of Shipping
- 1977. 12 Corporation Establishment
- 1955. 04 Established Company

Certification



KS mark for Earth Leakage Circuit Breakers



KS mark for Molded Case Circuit Breakers



Certificate by Korea Electrical Safety Corporation



KR mark by Korea Register of Shipping (all items)



TUV/CE (all items)



ISO 9001



Patent / Utility model by Korean Intellectual Property Office

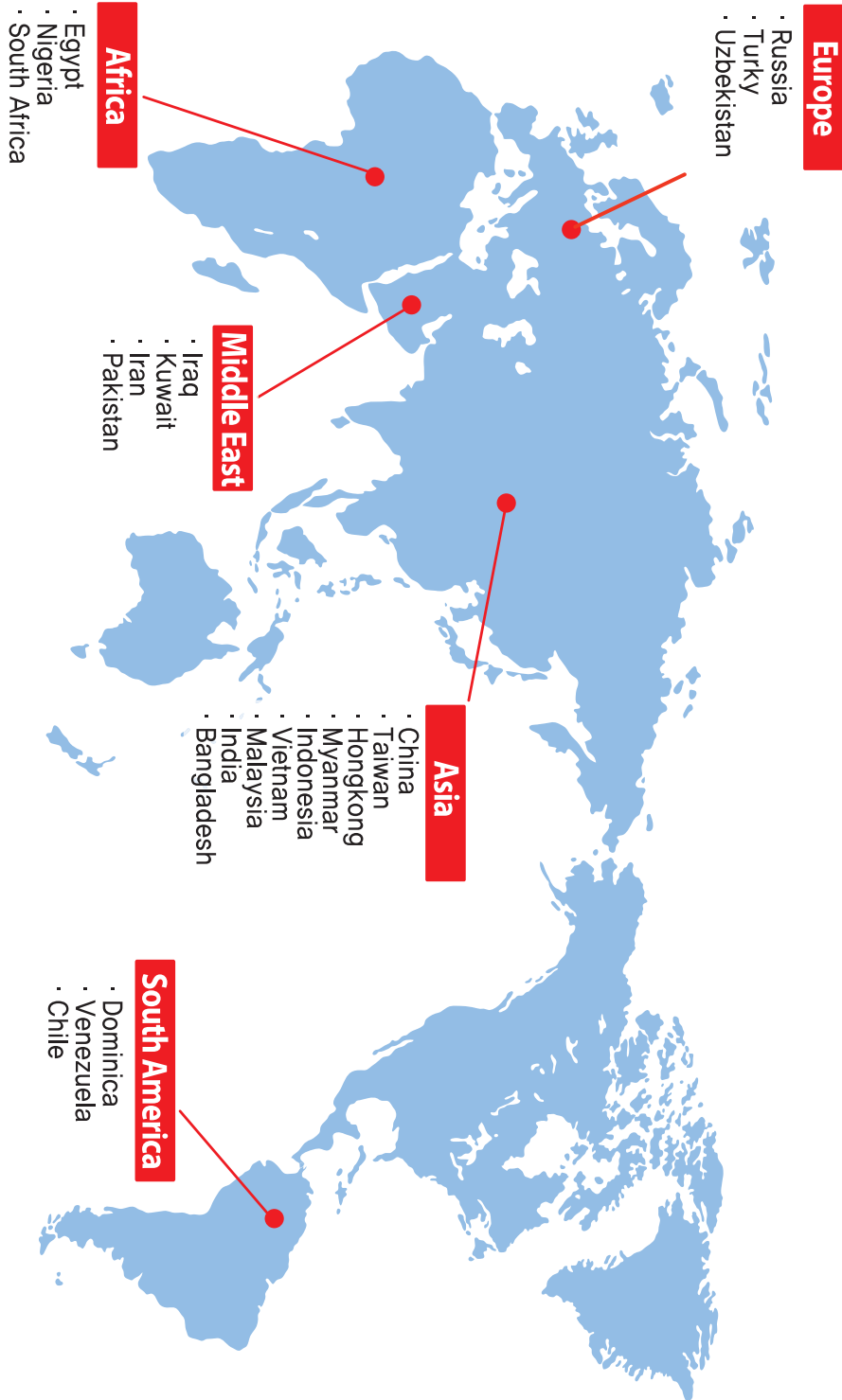
Major Account Customers

Government



Construction & Telecommunication





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2014.11