



MINI







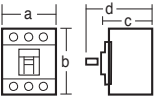
MINI BREAKER

HBD breaker / 5-10kA 10-100A

Standard Protection Specification	IEC60947-2 overload, short-circuit 5, 10kA at AC220/240V 10, 15, 20, 30, 40, 50, 60, 75, 100A 1, 2, 3 pole plug-in and lug-to-lug type
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| Ratings |










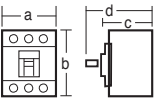
Plug-in type

Model		HBD51D	HBD52D	HBD53D	HBD51HD	HBD52HD	HBD53HD	
Figure								
Standard		IEC60947-2			IEC60947-2			
Ampere frame size		50AF			50AF			
Number of poles (P)		1	2	3	1	2	3	
Degree of protection		IP20			IP20			
Utilization category		A			A			
Protection		overload, short-circuit			overload, short-circuit			
Rating	Rated current [A]	10, 15, 20, 30, 40, 50			10, 15, 20, 30, 40, 50			
	Rated insulation voltage [Ui] [V]	AC460			AC460			
	Rated operational voltage [Ue] [V]	AC240/460 ¹⁾			AC240/460 ¹⁾			
	Rated impulse withstand voltage [Uimp] [kV]	6			6			
Rated short-circuit breaking capacity IEC60947-2 KS C 8321	Ultimate [Icu] (kA r.m.s.)	AC220/240V, 50-60Hz 5			10			
	Service [Ics]	% of [Icu] 50			50			
Trip mechanism		thermal magnetic			thermal magnetic			
Mounting		Plug-in			Plug-in			
Terminal connection	Line side	plug-in			plug-in			
	Load side	screw			screw			
Dimensions (mm)		a Width	25	50	75	25	50	75
		b Height	74.5	74.5	74.5	74.5	74.5	74.5
		c Depth	60	60	60	60	60	60
		d	77	79	79	77	79	79
Weight [kg]		0.28	0.56	0.84	0.28	0.56	0.84	

※ 1) AC460V is not applicable for 1P breaker.

Ratings

Lug-to-lug type






Model		HBD51	HBD52	HBD53	HBD51h	HBD52h	HBD53h	HBD101h	HBD102h	HBD103h	
Figure											
Standard		IEC60947-2			IEC60947-2			IEC60947-2			
Ampere frame size		50AF			50AF			100AF			
Number of poles (P)		1	2	3	1	2	3	1	2	3	
Degree of protection		IP20			IP20			IP20			
Utilization category		A			A			A			
Protection		overload, short-circuit			overload, short-circuit			overload, short-circuit			
Rating	Rated current [A]	10, 15, 20, 30, 40, 50			10, 15, 20, 30, 40, 50			15, 20, 30, 40, 50, 60, 75, 100			
	Rated insulation voltage [Ui] [V]	AC460			AC460			AC460			
	Rated operational voltage [Ue] [V]	AC240/460 ¹⁾			AC240/460 ¹⁾			AC240/460 ¹⁾			
	Rated impulse withstand voltage [Uimp] [kV]	6			6			6			
Rated short-circuit breaking capacity	Ultimate [Icu] (kA r.m.s.)	AC400/460V, 50-60Hz	2.5		5		5				
		AC380V, 50-60Hz	2.5		5		5				
		AC220/240V, 50-60Hz	5		10		10				
IEC60947-2 KS C 8321	Service [Ics]	DC125V	5		10		10				
		% of [Icu]	50		50		50				
Trip mechanism		thermal magnetic			thermal magnetic			thermal magnetic			
Mounting	Direct mounting by screw	○			○			○			
	Plug-in	-			○			○			
Terminal connection	Line side	clip & screw			clip & screw			clip & screw			
	Load side	clip & screw			clip & screw			clip & screw			
Dimensions (mm)		a Width	25	50	75	25	50	75	25	50	75
		b Height	95	95	95	95	95	95	97	97	97
		c Depth	60	60	60	60	60	60	60	60	60
		d	77	79	79	77	79	79	77	79	79
Weight [kg]		0.16	0.34	0.5	0.16	0.34	0.5	0.23	0.3	0.35	

※ 1) AC460V is not applicable for 1P breaker.

HBD breaker / 5-10kA 10-100A

Order information

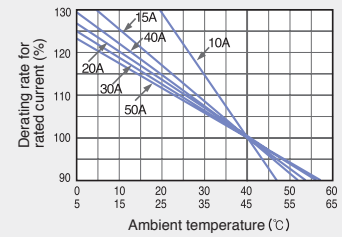
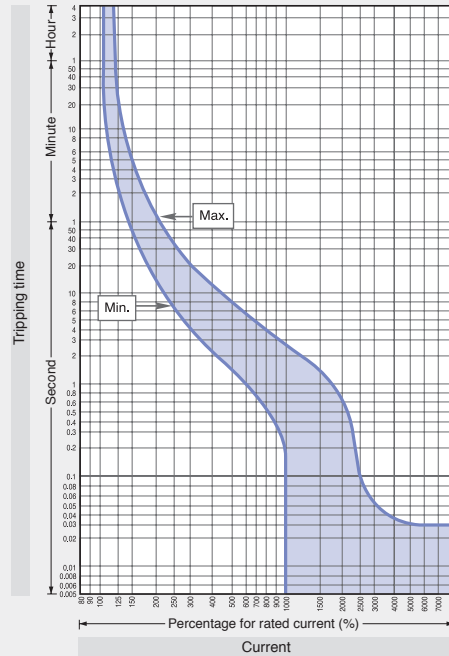
HBD

Rating	1 pole		2 pole		3 pole		Category		
	Code	Unit (EA)	Code	Unit (EA)	Code	Unit (EA)			
 50AF 5kA Plug-in type	10A	HBD51D 1PT4S0000C 00010 E	100	HBD52D 2PT4S0000C 00010 E	50	HBD53D 3PT4S0000C 00010 E	50	MCCB	M1
	15A	HBD51D 1PT4S0000C 00015 E		HBD52D 2PT4S0000C 00015 E		HBD53D 3PT4S0000C 00015 E			
	20A	HBD51D 1PT4S0000C 00020 E		HBD52D 2PT4S0000C 00020 E		HBD53D 3PT4S0000C 00020 E			
	30A	HBD51D 1PT4S0000C 00030 E		HBD52D 2PT4S0000C 00030 E		HBD53D 3PT4S0000C 00030 E			
	40A	HBD51D 1PT4S0000C 00040 E		HBD52D 2PT4S0000C 00040 E		HBD53D 3PT4S0000C 00040 E			
	50A	HBD51D 1PT4S0000C 00050 E		HBD52D 2PT4S0000C 00050 E		HBD53D 3PT4S0000C 00050 E			
 50AF 10kA Plug-in type	10A	HBD51HD 1PT4S0000C 00010 E	100	HBD52HD 2PT4S0000C 00010 E	50	HBD53HD 3PT4S0000C 00010 E	50	MCCB	M1
	15A	HBD51HD 1PT4S0000C 00015 E		HBD52HD 2PT4S0000C 00015 E		HBD53HD 3PT4S0000C 00015 E			
	20A	HBD51HD 1PT4S0000C 00020 E		HBD52HD 2PT4S0000C 00020 E		HBD53HD 3PT4S0000C 00020 E			
	30A	HBD51HD 1PT4S0000C 00030 E		HBD52HD 2PT4S0000C 00030 E		HBD53HD 3PT4S0000C 00030 E			
	40A	HBD51HD 1PT4S0000C 00040 E		HBD52HD 2PT4S0000C 00040 E		HBD53HD 3PT4S0000C 00040 E			
	50A	HBD51HD 1PT4S0000C 00050 E		HBD52HD 2PT4S0000C 00050 E		HBD53HD 3PT4S0000C 00050 E			
 50AF 5kA Lug-to-lug type	10A	HBD51 1PT4S0000C 00010 E	100	HBD52 2PT4S0000C 00010 E	50	HBD53 3PT4S0000C 00010 E	30	MCCB	M1
	15A	HBD51 1PT4S0000C 00015 E		HBD52 2PT4S0000C 00015 E		HBD53 3PT4S0000C 00015 E			
	20A	HBD51 1PT4S0000C 00020 E		HBD52 2PT4S0000C 00020 E		HBD53 3PT4S0000C 00020 E			
	30A	HBD51 1PT4S0000C 00030 E		HBD52 2PT4S0000C 00030 E		HBD53 3PT4S0000C 00030 E			
	40A	HBD51 1PT4S0000C 00040 E		HBD52 2PT4S0000C 00040 E		HBD53 3PT4S0000C 00040 E			
	50A	HBD51 1PT4S0000C 00050 E		HBD52 2PT4S0000C 00050 E		HBD53 3PT4S0000C 00050 E			
 50AF 10kA Lug-to-lug type	10A	HBD51H 1PT4S0000C 00010 E	100	HBD52H 2PT4S0000C 00010 E	50	HBD53H 3PT4S0000C 00010 E	30	MCCB	M1
	15A	HBD51H 1PT4S0000C 00015 E		HBD52H 2PT4S0000C 00015 E		HBD53H 3PT4S0000C 00015 E			
	20A	HBD51H 1PT4S0000C 00020 E		HBD52H 2PT4S0000C 00020 E		HBD53H 3PT4S0000C 00020 E			
	30A	HBD51H 1PT4S0000C 00030 E		HBD52H 2PT4S0000C 00030 E		HBD53H 3PT4S0000C 00030 E			
	40A	HBD51H 1PT4S0000C 00040 E		HBD52H 2PT4S0000C 00040 E		HBD53H 3PT4S0000C 00040 E			
	50A	HBD51H 1PT4S0000C 00050 E		HBD52H 2PT4S0000C 00050 E		HBD53H 3PT4S0000C 00050 E			
 100AF 10kA Lug-to-lug type	15A	HBD101H 1PT4S0000C 00015	100	HBD102H 2PT4S0000C 00015	50	HBD103H 3PT4S0000C 00015	30	MCCB	M1
	20A	HBD101H 1PT4S0000C 00020		HBD102H 2PT4S0000C 00020		HBD103H 3PT4S0000C 00020			
	30A	HBD101H 1PT4S0000C 00030		HBD102H 2PT4S0000C 00030		HBD103H 3PT4S0000C 00030			
	40A	HBD101H 1PT4S0000C 00040		HBD102H 2PT4S0000C 00040		HBD103H 3PT4S0000C 00040			
	50A	HBD101H 1PT4S0000C 00050		HBD102H 2PT4S0000C 00050		HBD103H 3PT4S0000C 00050			
	60A	HBD101H 1PT4S0000C 00060		HBD102H 2PT4S0000C 00060		HBD103H 3PT4S0000C 00060			
	75A	HBD101H 1PT4S0000C 00075		HBD102H 2PT4S0000C 00075		HBD103H 3PT4S0000C 00075			
	100A	HBD101H 1PT4S0000C 00100		HBD102H 2PT4S0000C 00100		HBD103H 3PT4S0000C 00100			

■ Tripping & temperature derating curves



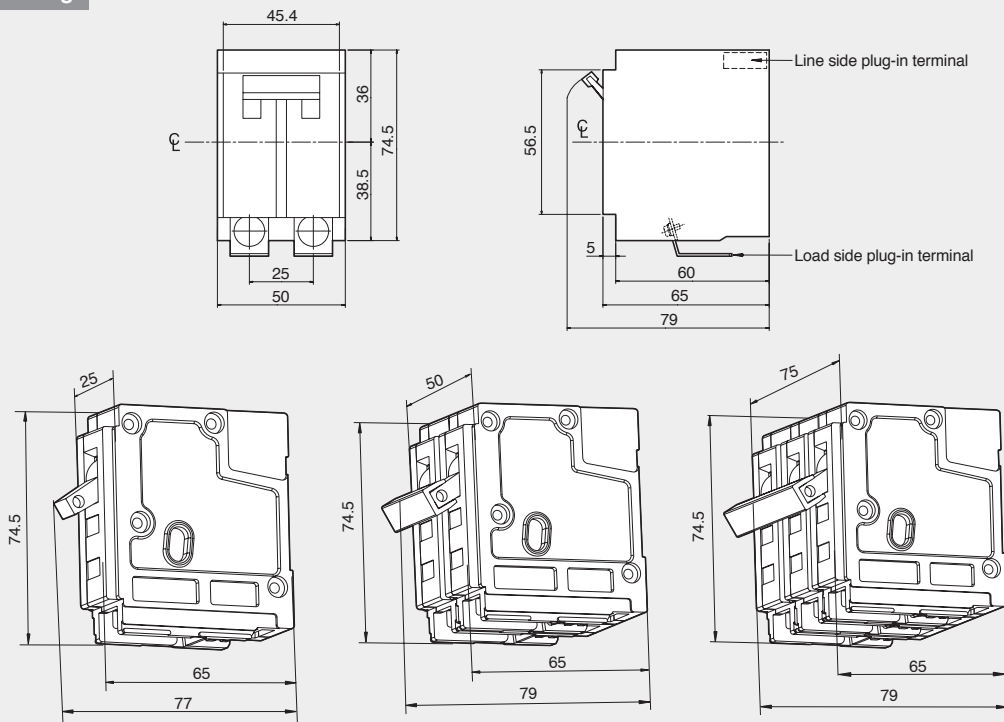
- HBD51D
- HBD52D
- HBD53D
- HBD51HD
- HBD52HD
- HBD53HD



■ Dimensions

(Unit: mm)

Direct mounting



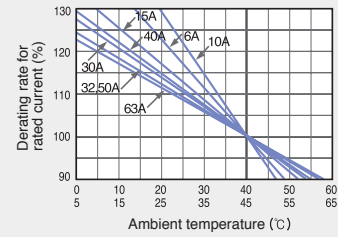
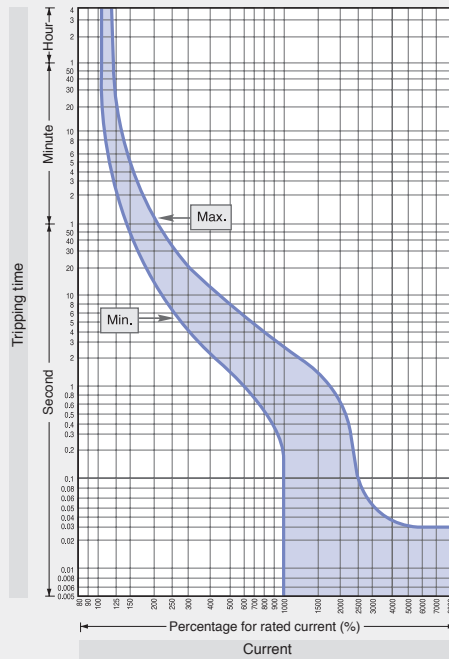
※ \ominus : Center line \parallel : Handle center line

HBD breaker / 5-10kA 10-100A



- HBD51
- HBD52
- HBD53
- HBD51h
- HBD52h
- HBD53h

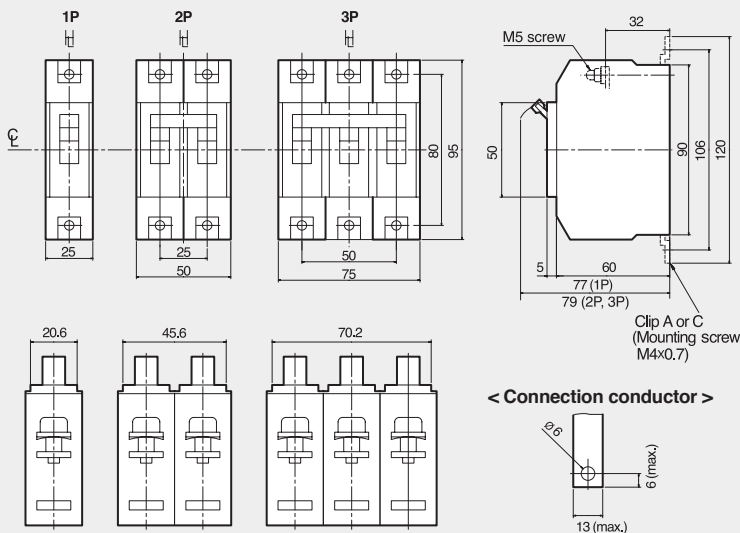
■ Tripping & temperature derating curves



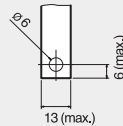
■ Dimensions

(Unit: mm)

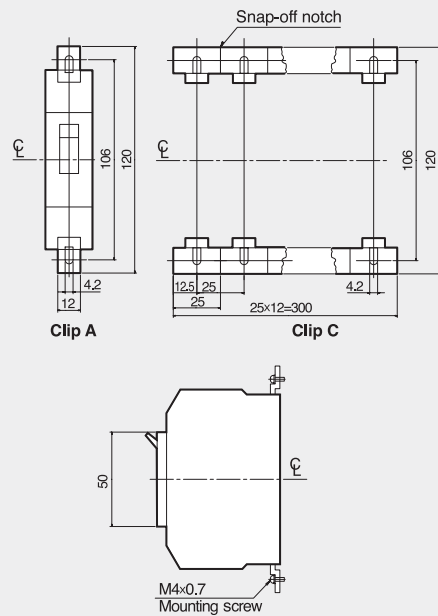
Direct mounting



< Connection conductor >



< Terminal connection >



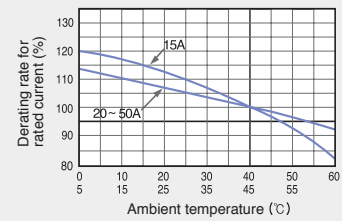
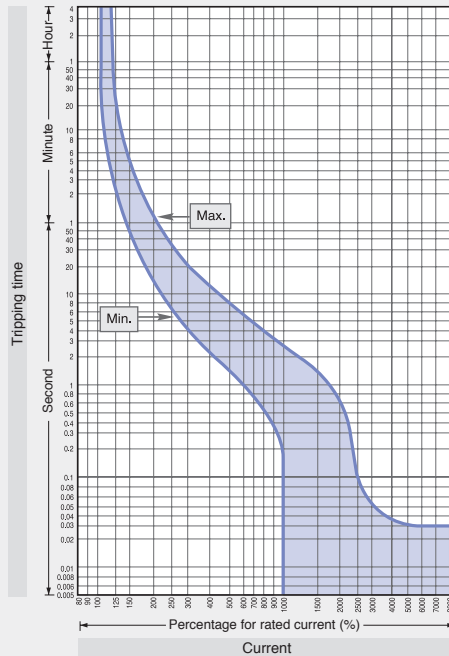
- ※ - 2 pieces Clip A are supplied for each pole. The distance between Clips of multi-pole breaker is 25mm.
- When you use Clip C, we recommend to screw it down at 4 or 5 pole intervals. Clip C has a snap-off notch, so you can adjust it as required.

※ \perp : Center line \perp : Handle center line



- HBD101h
- HBD102h
- HBD103h

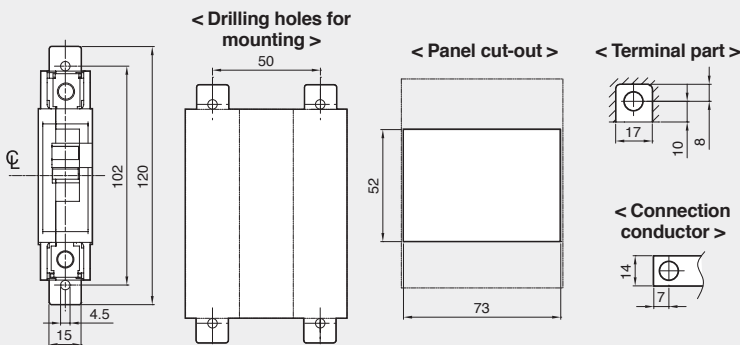
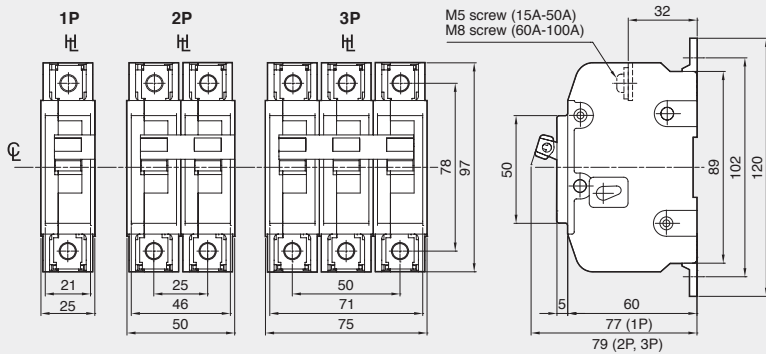
■ Tripping & temperature derating curves



■ Dimensions

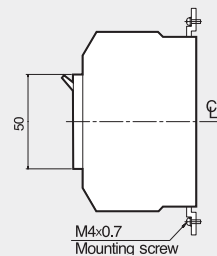
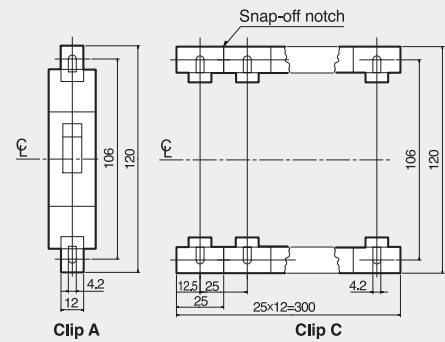
(Unit: mm)

Direct mounting



※ \ominus : Center line H : Handle center line

< Terminal connection >






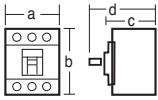


- ※ - 2 pieces Clip A are supplied for each pole. The distance between Clips of multi-pole breaker is 25mm.
- When you use Clip C, we recommend to screw it down at 4 or 5 pole intervals. Clip C has a snap-off notch, so you can adjust it as required.

Mini molded case circuit breaker HiBC & HiBD / 30-100AF 1.5-10kA 10-100A

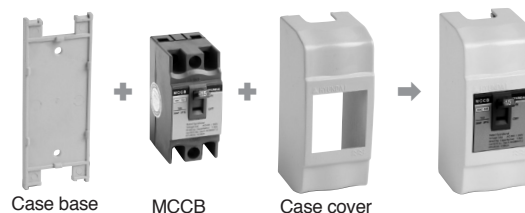
Standard Protection Specification	IEC60947-2 overload, short-circuit 1.5, 2.5, 5, 10kA at AC220/240V 10, 15, 20, 30, 40, 50, 60, 75, 100A 1, 2, 3 pole
Accessory	plastic case for HiBC32S model

| Ratings |





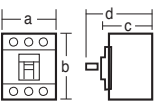
Model		HiBC32S	HiBC32	HiBC32h	HiBD32F	HiBD33F	
Figure							
Standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	
Ampere frame size		30AF	30AF	30AF	30AF	30AF	
Number of poles (P)		2 (2P1E)	2	2	2	2	
Degree of protection		IP20	IP20	IP20	IP20	IP20	
Utilization category		A	A	A	A	A	
Protection		overload, short-circuit	overload, short-circuit	overload, short-circuit	overload, short-circuit	overload, short-circuit	
Rating	Rated current (A)	10, 15, 20, 30	15, 20, 30	15, 20, 30	15, 20, 30	15, 20, 30	
	Rated insulation voltage [Ui] (V)	AC500	AC500	AC500	AC500	AC500	
	Rated operational voltage [Ue] (V)	AC220	AC220	AC220	AC220	AC220/460	
	Rated impulse withstand voltage [Uimp] (kV)	6	6	6	6	6	
Rated short-circuit breaking capacity IEC60947-2 KS C 8321	Ultimate [Icu] (kA r.m.s.)	AC400/460V, 50-60Hz	-	-	-	5	
		AC380/415V, 50-60Hz	-	-	-	5	
	Service [Ics] (% of [Icu])	AC220/240V, 50-60Hz	1.5	1.5	2.5	5	5
Trip mechanism	Hydraulic magnetic	-	-	-	○	○	
	Thermal magnetic	○	○	○	-	-	
Mounting	Direct mounting by screw	○	○	○	○	○	
	DIN-rail	-	-	-	○	○	
Terminal connection		screw	screw	screw	screw	screw	
Dimensions (mm)		a Width	33	33	33	50	75
		b Height	70	70	70	96	96
		c Depth	42	42	42	60	60
		d	57	57	57	80	80
Weight (kg)		0.1	0.1	0.1	0.3	0.4	

Plastic case for HiBC32S

Order	Code	HiBC32S COVER
	Unit	200EA
	Category	MCCB / MB
Dimensions (mm)		43(W) × 100(H) × 49.7(D)



Ratings

Model		HiBD52F	HiBD53F	HiBD102F	HiBD103F	
Figure						
Standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	
Ampere frame size		50AF	50AF	100AF	100AF	
Number of poles (P)		2	3	*2	3	
Degree of protection		IP20	IP20	IP20	IP20	
Utilization category		A	A	A	A	
Protection		overload, short-circuit	overload, short-circuit	overload, short-circuit	overload, short-circuit	
Rating	Rated current [A]	15, 20, 30, 40, 50	15, 20, 30, 40, 50	60, 75, 100	60, 75, 100	
	Rated insulation voltage [Ui] [V]	AC500	AC500	AC500	AC500	
	Rated operational voltage [Ue] [V]	AC220	AC220/460	AC220	AC220/460	
	Rated impulse withstand voltage [Uimp] [kV]	6	6	6	6	
Rated short-circuit breaking capacity IEC60947-2 KS C 8321	Ultimate [Icu] (kA r.m.s.)	AC400/460V, 50-60Hz	-	5	5	
		AC380/415V, 50-60Hz	-	5	-	5
	Service [Ics] (% of Icu)	AC220/240V, 50-60Hz	5	5	10	10
Trip mechanism	Hydraulic magnetic	○	○	○	○	
Mounting	Direct mounting by screw	○	○	○	○	
	DIN-rail	○	○	○	○	
Terminal connection		screw	screw	screw	screw	
Dimensions (mm)		a Width	50	75	75 ¹⁾	75
		b Height	96	96	97	97
		c Depth	60	60	60	60
		d	80	80	80	80
Weight [kg]		0.3	0.4	0.5	0.5	

*1) *2P breaker has same dimension as 3P breaker, but the middle pole is removed.

Order information

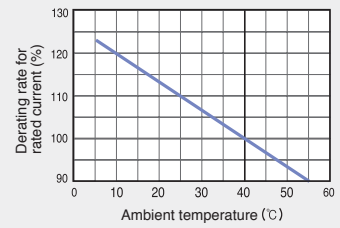
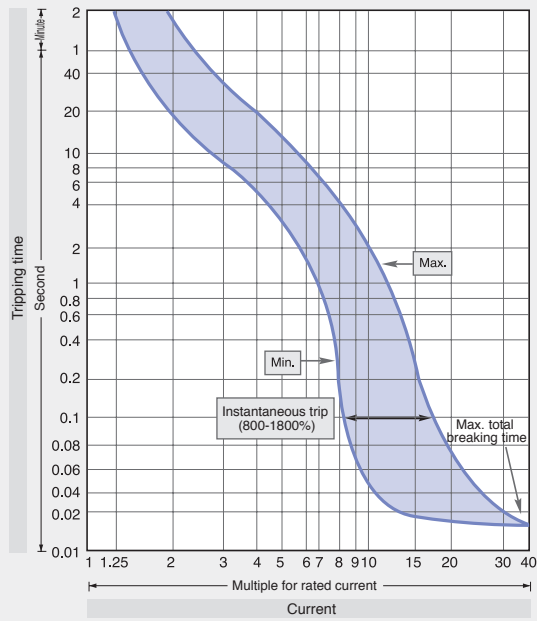
Rating		Code		Unit (EA)	Rating		Code		Unit (EA)	Category	
HiBC32S 1.5kA, 2P (2P1E)	10A	HIBC32S 2PT4S0000C 00010 E		100	HiBC32SC 1.5kA, 2P (2P1E) with plastic case	10A	HIBC32SC 2PT4S0000C 00010 E		200	MCCB	M1
	15A	HIBC32S 2PT4S0000C 00015 E				15A	HIBC32SC 2PT4S0000C 00015 E				
	20A	HIBC32S 2PT4S0000C 00020 E				20A	HIBC32SC 2PT4S0000C 00020 E				
	30A	HIBC32S 2PT4S0000C 00030 E				30A	HIBC32SC 2PT4S0000C 00030 E				
HiBC32 1.5kA, 2P	15A	HIBC32 2PT4S0000C 00015		100	HiBC32h 2.5kA, 2P	15A	HIBC32H 2PT4S0000C 00015		100	MCCB	M1
	20A	HIBC32 2PT4S0000C 00020				20A	HIBC32H 2PT4S0000C 00020				
	30A	HIBC32 2PT4S0000C 00030				30A	HIBC32H 2PT4S0000C 00030				
HiBD32F 5kA, 2P	15A	HiBD32F 2PT4S0000C 00015		40	HiBD33F 5kA, 3P	15A	HiBD33F 3PT4S0000C 00015		24	MCCB	M1
	20A	HiBD32F 2PT4S0000C 00020				20A	HiBD33F 3PT4S0000C 00020				
	30A	HiBD32F 2PT4S0000C 00030				30A	HiBD33F 3PT4S0000C 00030				
HiBD52F 5kA, 2P	15A	HiBD52F 2PT4S0000C 00015		40	HiBD53F 5kA, 3P	15A	HiBD53F 3PT4S0000C 00015		24	MCCB	M1
	20A	HiBD52F 2PT4S0000C 00020				20A	HiBD53F 3PT4S0000C 00020				
	30A	HiBD52F 2PT4S0000C 00030				30A	HiBD53F 3PT4S0000C 00030				
	40A	HiBD52F 2PT4S0000C 00040				40A	HiBD53F 3PT4S0000C 00040				
	50A	HiBD52F 2PT4S0000C 00050				50A	HiBD53F 3PT4S0000C 00050				
HiBD102F 10kA, 2P	60A	HiBD102F 2PT4S0000C 00060		24	HiBD103F 10kA, 3P	60A	HiBD103F 3PT4S0000C 00060		24	MCCB	M1
	75A	HiBD102F 2PT4S0000C 00075				75A	HiBD103F 3PT4S0000C 00075				
	100A	HiBD102F 2PT4S0000C 00100				100A	HiBD103F 3PT4S0000C 00100				

Mini molded case circuit breaker HiBC & HiBD / 30-100AF 1.5-10kA 10-100A



- HBC32S
- HBC32
- HBD32h

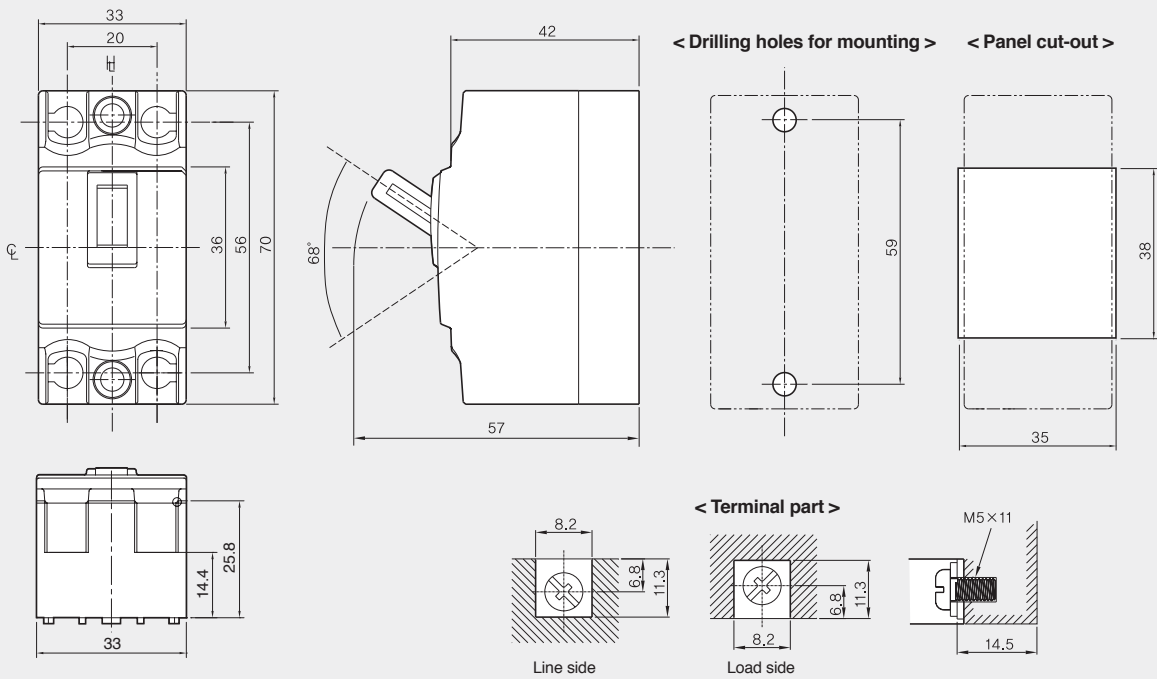
■ Tripping & temperature derating curves



■ Dimensions

(Unit: mm)

Direct mounting

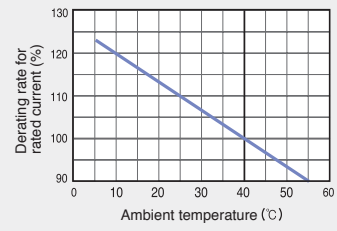
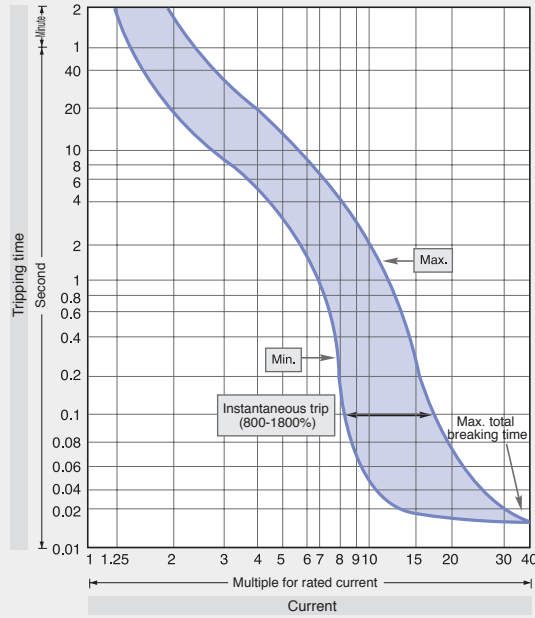


※ \ominus : Center line H : Handle center line



• HIBC32SC

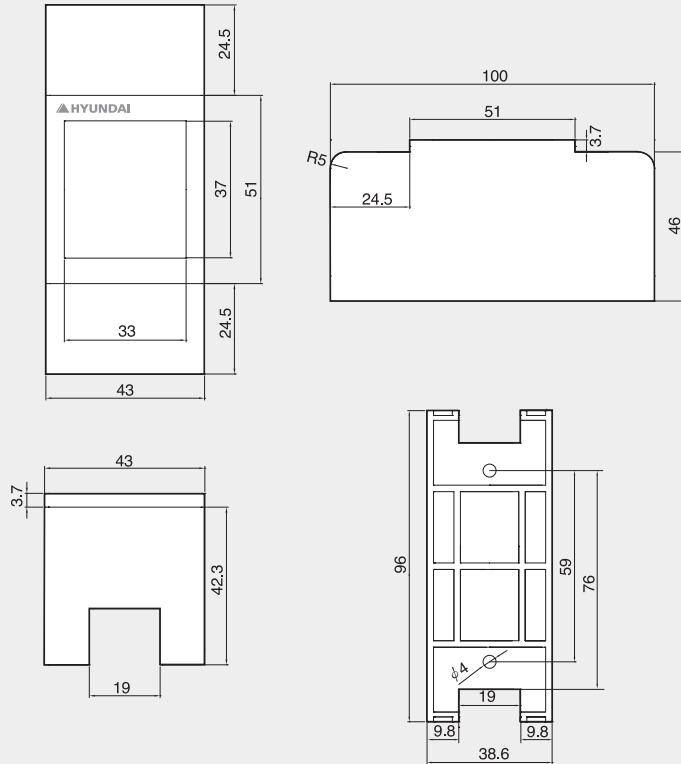
■ Tripping & temperature derating curves



■ Dimensions

(Unit: mm)

< Plastic cover >

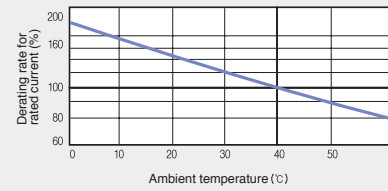
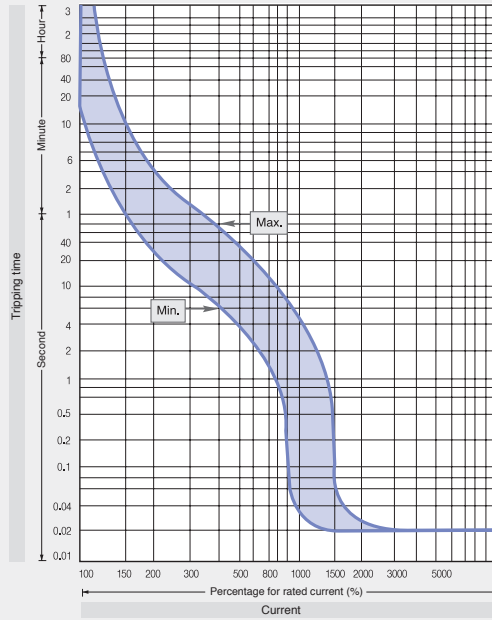


Mini molded case circuit breaker HiBC & HiBD / 30-100AF 1.5-10kA 10-100A



- HiBD32F
- HiBD33F
- HiBD52F
- HiBD53F

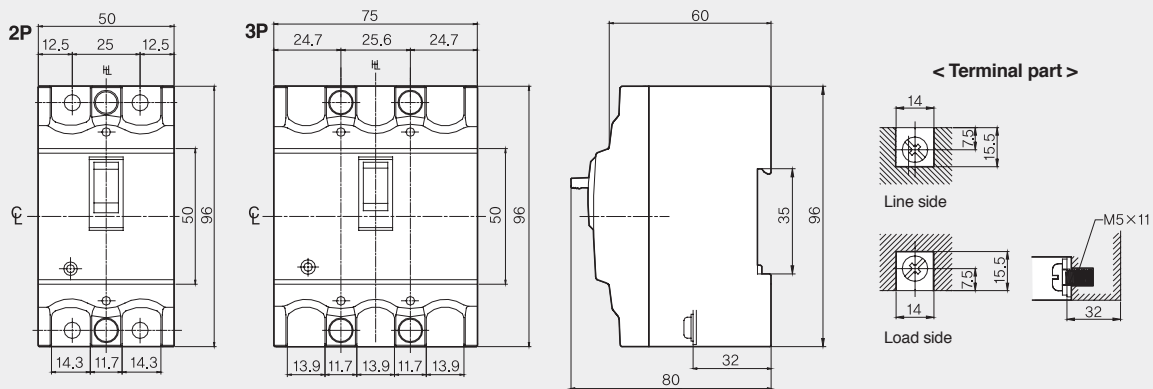
■ Tripping & temperature derating curves



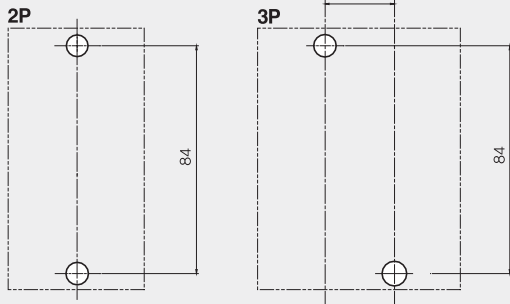
■ Dimensions

(Unit: mm)

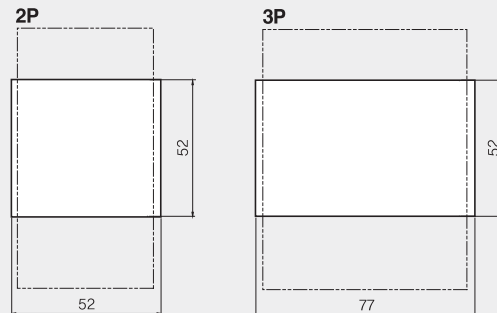
Direct mounting



< Drilling holes for mounting >



< Panel cut-out >

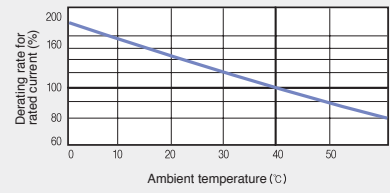
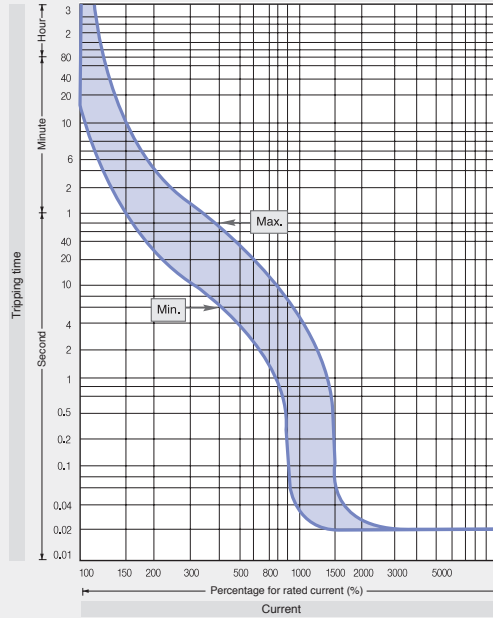


※ C: Center line H: Handle center line



- HiBD102F
- HiBD103F

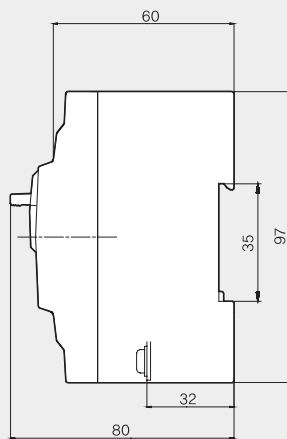
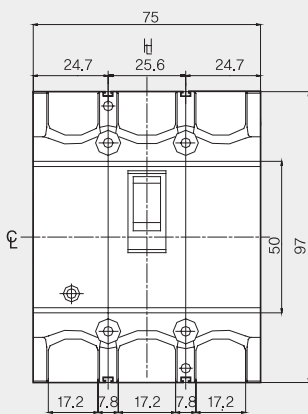
■ Tripping & temperature derating curves



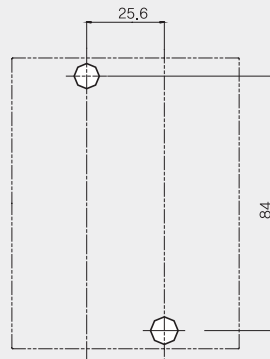
■ Dimensions

(Unit: mm)

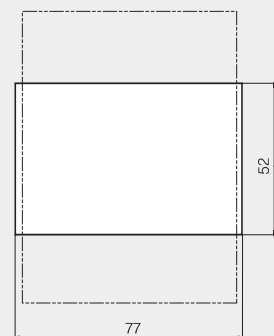
Direct mounting



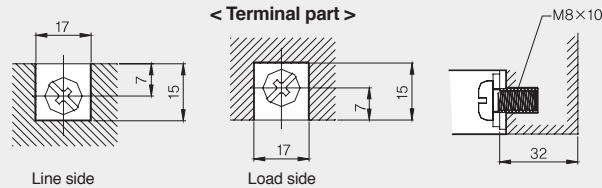
< Drilling holes for mounting >



< Panel cut-out >



< Terminal part >







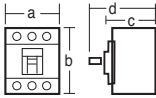


※ C: Center line H: Handle center line

Mini earth leakage circuit breaker HiGC & HiGD / 30-100AF 1.5-10kA 10-100A 15-200mA





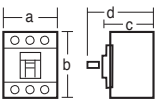
Standard Protection Specification	IEC60947-2 overload, short-circuit, earth leakage 1.5, 2.5, 5, 10kA at AC220/240V 10, 15, 20, 30, 40, 50, 60, 75, 100A 15, 30, 100, 200mA 1, 2, 3 pole
--	---

| Ratings |

Model		HiGC32	HiGC32h	HiGD32	HiGD32h	HiGD32F	HiGD33F	
Figure								
Standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	
Ampere frame size		30AF	30AF	30AF	30AF	30AF	30AF	
Number of poles (P)		2	2	2	2	2	3	
Degree of protection		IP20	IP20	IP20	IP20	IP20	IP20	
Utilization category		A	A	A	A	A	A	
Protection		earth leakage, overload, short-circuit						
Rating	Rated current (A)	15, 20, 30	15, 20, 30	15, 20, 30	15, 20, 30	15, 20, 30	15, 20, 30	
	Rated residual current [$I_{\Delta n}$] (mA)	15 ¹⁾ , 30	15 ¹⁾ , 30	15 ¹⁾ , 30	15 ¹⁾ , 30	30, 100 ¹⁾ , 200 ¹⁾	30, 100 ¹⁾ , 200 ¹⁾	
	Rated insulation voltage [U _i] (V)	AC500	AC500	AC500	AC500	AC500	AC500	
	Rated operational voltage [U _e] (V)	AC110/220 (AC88-242)	AC110/220 (AC88-242)	AC220 (AC176-242)	AC220 (AC176-242)	AC220 (AC176-242)	AC220/460	
	Rated impulse withstand voltage [U _{imp}] (kV)	6	6	6	6	6	6	
	Rated operating time (sec.)	0.03	0.03	0.03	0.03	0.03	0.03	
Rated short-circuit breaking capacity	Ultimate [I _{cu}] (kA r.m.s.)	AC400/460V, 50-60Hz	-	-	-	-	5	
		AC380/415V, 50-60Hz	-	-	-	-	5	
		AC220/240V, 50-60Hz	1.5	2.5	1.5	2.5	5	5
IEC60947-2 KS C 8321	Service [I _{cs}] (% of [I _{cu}])	AC110V, 50-60Hz	1.5	-	-	-	5	-
			50	50	50	50	50	50
Earth leakage protection	Earth leakage detection	by current transformer						
	Earth leakage test button	○	○	○	○	○	○	
Trip mechanism	Hydraulic magnetic	-	-	-	-	○	○	
	Thermal magnetic	○	○	○	○	-	-	
Mounting	Direct mounting by screw	○	○	○	○	○	○	
	DIN-rail	-	-	-	-	○	○	
Terminal connection		screw	screw	screw	screw	screw	screw	
Dimensions (mm)		a Width	33	33	62	62	50	75
		b Height	70	70	70	70	96	96
		c Depth	42	42	42	42	60	60
		d	57	57	57	57	80	80
Weight (kg)		0.1	0.1	0.14	0.14	0.4	0.5	

※ 1) The mentioned value is non-standard and available on special request.

| Ratings |

Model		HiGD52F	HiGD53F	HiGD102F	HiGD103F	
Figure						
Standard		IEC60947-2	IEC60947-2	IEC60947-2	IEC60947-2	
Ampere frame size		50AF	50AF	100AF	100AF	
Number of poles (P)		2	3	*2	3	
Degree of protection		IP20	IP20	IP20	IP20	
Utilization category		A	A	A	A	
Protection		earth leakage, overload, short-circuit				
Rating	Rated current [A]	15, 20, 30, 40, 50	15, 20, 30, 40, 50	60, 75, 100	60, 75, 100	
	Rated residual current [$I_{\Delta n}$] [mA]	30, 100 ¹⁾ , 200 ¹⁾	30, 100 ¹⁾ , 200 ¹⁾	30, 100 ¹⁾ , 200 ¹⁾	30, 100 ¹⁾ , 200 ¹⁾	
	Rated insulation voltage [U_i] [V]	AC500	AC500	AC500	AC500	
	Rated operational voltage [U_e] [V]	AC220	AC220/460	AC220	AC220/460	
	Rated impulse withstand voltage [U_{imp}] [kV]	6	6	6	6	
	Rated operating time [sec.]	0.03	0.03	0.03	0.01	
Rated short-circuit breaking capacity IEC60947-2 KS C 8321	Ultimate [Icu] (kA r.m.s.)	AC400/460V, 50-60Hz	-	5	5	
		AC380/415V, 50-60Hz	-	5	-	5
	Service [Ics] (% of Icu)	AC220/240V, 50-60Hz	5	5	10	10
Earth leakage protection	Earth leakage detection	by current transformer				
	Earth leakage test button	○	○	○	○	
Trip mechanism	Hydraulic magnetic	○	○	○	○	
Mounting	Direct mounting by screw	○	○	○	○	
	DIN-rail	○	○	○	○	
Terminal connection		screw	screw	screw	screw	
Dimensions (mm)		a Width	50	75	75 ²⁾	75
		b Height	96	96	97	97
		c Depth	60	60	60	60
		d	80	80	80	80
Weight (kg)		0.4	0.5	0.6	0.6	

※ 1) The mentioned value is non-standard and available on special request.

2) *2P breaker has same dimension as 3P breaker, but the middle pole is removed.

Mini earth leakage circuit breaker HiGC & HiGD / 30-100AF 1.5-10kA 10-100A 15-200mA

■ Order information

30mA

Rating		Code		Unit (EA)	Rating		Code		Unit (EA)	Category	
HiGC32 1.5kA, 2P	15A	HIGC32 2PG4S0000C 00015		100	HiGC32h 2.5kA, 2P	15A	HIGC32H 2PG4S0000C 00015		100	ELCB	M6
	20A	HIGC32 2PG4S0000C 00020				20A	HIGC32H 2PG4S0000C 00020				
	30A	HIGC32 2PG4S0000C 00030				30A	HIGC32H 2PG4S0000C 00030				
HiGD32 1.5kA, 2P	15A	HIGD32 2PG4S0000C 00015		60	HiGD32h 2.5kA, 2P	15A	HIGD32H 2PG4S0000C 00015		60	ELCB	M6
	20A	HIGD32 2PG4S0000C 00020				20A	HIGD32H 2PG4S0000C 00020				
	30A	HIGD32 2PG4S0000C 00030				30A	HIGD32H 2PG4S0000C 00030				
HiGD32F 5kA, 2P	15A	HIGD32F 2PG4S0000C 00015		40	HiGD33F 5kA, 3P	15A	HIGD33F 3PG4S0000C 00015		24	ELCB	M6
	20A	HIGD32F 2PG4S0000C 00020				20A	HIGD33F 3PG4S0000C 00020				
	30A	HIGD32F 2PG4S0000C 00030				30A	HIGD33F 3PG4S0000C 00030				
HiGD52F 5kA, 2P	15A	HIGD52F 2PG4S0000C 00015		40	HiGD53F 5kA, 3P	15A	HIGD53F 3PG4S0000C 00015		24	ELCB	M6
	20A	HIGD52F 2PG4S0000C 00020				20A	HIGD53F 3PG4S0000C 00020				
	30A	HIGD52F 2PG4S0000C 00030				30A	HIGD53F 3PG4S0000C 00030				
	40A	HIGD52F 2PG4S0000C 00040				40A	HIGD53F 3PG4S0000C 00040				
	50A	HIGD52F 2PG4S0000C 00050				50A	HIGD53F 3PG4S0000C 00050				
HiGD102F 10kA, 2P	60A	HIGD102F 2PG4S0000C 00060		24	HiGD103F 10kA, 3P	60A	HIGD103F 3PG4S0000C 00060		24	ELCB	M6
	75A	HIGD102F 2PG4S0000C 00075				75A	HIGD103F 3PG4S0000C 00075				
	100A	HIGD102F 2PG4S0000C 00100				100A	HIGD103F 3PG4S0000C 00100				

15mA / non-standard and available on special request

Rating		Code		Unit (EA)	Rating		Code		Unit (EA)	Category	
HiGC32 1.5kA, 2P	15A	HIGC32 2PG3S0000C 00015		100	HiGC32h 2.5kA, 2P	15A	HIGC32H 2PG3S0000C 00015		100	ELCB	M6
	20A	HIGC32 2PG3S0000C 00020				20A	HIGC32H 2PG3S0000C 00020				
	30A	HIGC32 2PG3S0000C 00030				30A	HIGC32H 2PG3S0000C 00030				
HiGD32 1.5kA, 2P	15A	HIGD32 2PG3S0000C 00015		60	HiGD32h 2.5kA, 2P	15A	HIGD32H 2PG3S0000C 00015		60	ELCB	M6
	20A	HIGD32 2PG3S0000C 00020				20A	HIGD32H 2PG3S0000C 00020				
	30A	HIGD32 2PG3S0000C 00030				30A	HIGD32H 2PG3S0000C 00030				

100mA / non-standard and available on special request

Rating		Code		Unit (EA)	Rating		Code		Unit (EA)	Category	
HiGD32F 5kA, 2P	15A	HIGD32F 2PG5S0000C 00015		40	HiGD33F 5kA, 3P	15A	HIGD33F 3PG5S0000C 00015		24	ELCB	M6
	20A	HIGD32F 2PG5S0000C 00020				20A	HIGD33F 3PG5S0000C 00020				
	30A	HIGD32F 2PG5S0000C 00030				30A	HIGD33F 3PG5S0000C 00030				
HiGD52F 5kA, 2P	15A	HIGD52F 2PG5S0000C 00015		40	HiGD53F 5kA, 3P	15A	HIGD53F 3PG5S0000C 00015		24	ELCB	M6
	20A	HIGD52F 2PG5S0000C 00020				20A	HIGD53F 3PG5S0000C 00020				
	30A	HIGD52F 2PG5S0000C 00030				30A	HIGD53F 3PG5S0000C 00030				
	40A	HIGD52F 2PG5S0000C 00040				40A	HIGD53F 3PG5S0000C 00040				
	50A	HIGD52F 2PG5S0000C 00050				50A	HIGD53F 3PG5S0000C 00050				
HiGD102F 10kA, 2P	60A	HIGD102F 2PG5S0000C 00060		24	HiGD103F 10kA, 3P	60A	HIGD103F 3PG5S0000C 00060		24	ELCB	M6
	75A	HIGD102F 2PG5S0000C 00075				75A	HIGD103F 3PG5S0000C 00075				
	100A	HIGD102F 2PG5S0000C 00100				100A	HIGD103F 3PG5S0000C 00100				

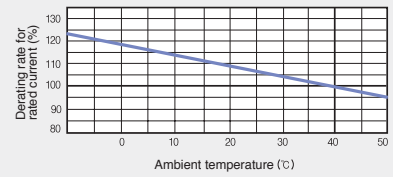
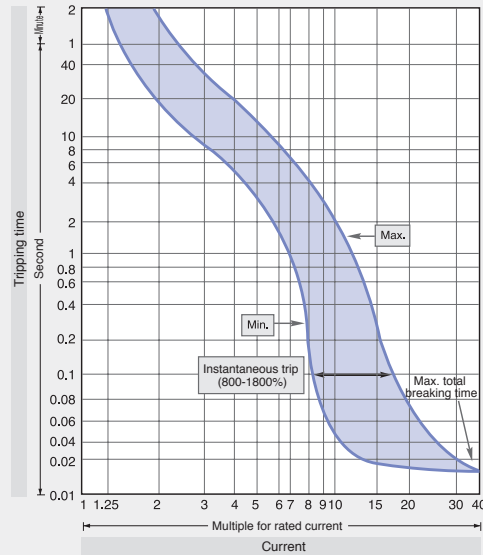
200mA / non-standard and available on special request

Rating		Code		Unit (EA)	Rating		Code		Unit (EA)	Category	
HiGD32F 5kA, 2P	15A	HIGD32F 2PG6S0000C 00015		40	HiGD33F 5kA, 3P	15A	HIGD33F 3PG6S0000C 00015		24	ELCB	M6
	20A	HIGD32F 2PG6S0000C 00020				20A	HIGD33F 3PG6S0000C 00020				
	30A	HIGD32F 2PG6S0000C 00030				30A	HIGD33F 3PG6S0000C 00030				
HiGD52F 5kA, 2P	15A	HIGD52F 2PG6S0000C 00015		40	HiGD53F 5kA, 3P	15A	HIGD53F 3PG6S0000C 00015		24	ELCB	M6
	20A	HIGD52F 2PG6S0000C 00020				20A	HIGD53F 3PG6S0000C 00020				
	30A	HIGD52F 2PG6S0000C 00030				30A	HIGD53F 3PG6S0000C 00030				
	40A	HIGD52F 2PG6S0000C 00040				40A	HIGD53F 3PG6S0000C 00040				
	50A	HIGD52F 2PG6S0000C 00050				50A	HIGD53F 3PG6S0000C 00050				
HiGD102F 10kA, 2P	60A	HIGD102F 2PG6S0000C 00060		24	HiGD103F 10kA, 3P	60A	HIGD103F 3PG6S0000C 00060		24	ELCB	M6
	75A	HIGD102F 2PG6S0000C 00075				75A	HIGD103F 3PG6S0000C 00075				
	100A	HIGD102F 2PG6S0000C 00100				100A	HIGD103F 3PG6S0000C 00100				

■ Tripping & temperature derating curves



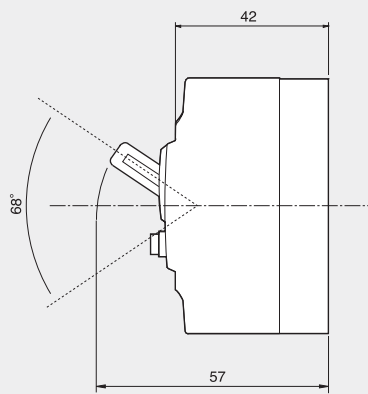
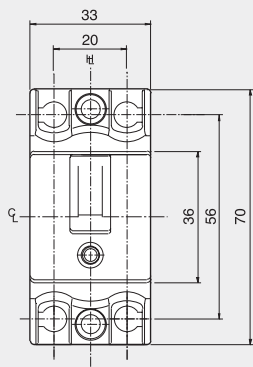
- HiGC32
- HiGC32h



■ Dimensions

(Unit: mm)

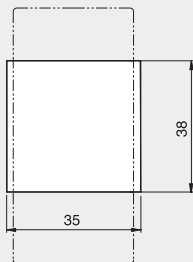
Direct mounting



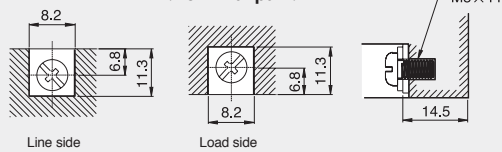
< Drilling holes for mounting >



< Panel cut-out >



< Terminal part >



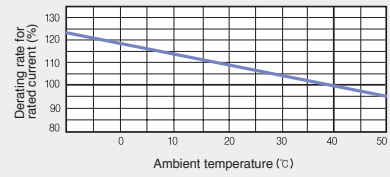
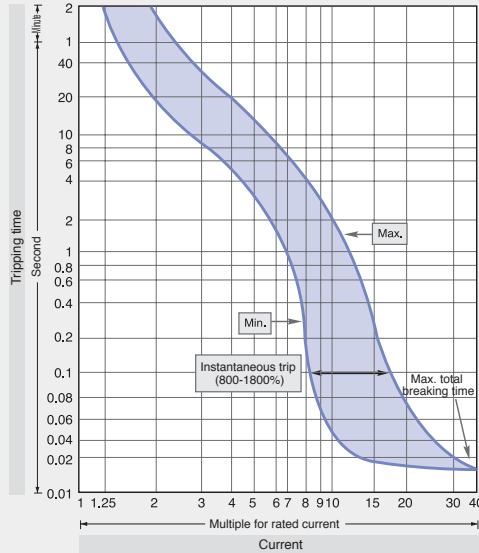
※ ⊕: Center line ⊕: Handle center line

Mini earth leakage circuit breaker HiGC & HiGD / 30-100AF 1.5-10kA 10-100A 15-200mA

■ Tripping & temperature derating curves



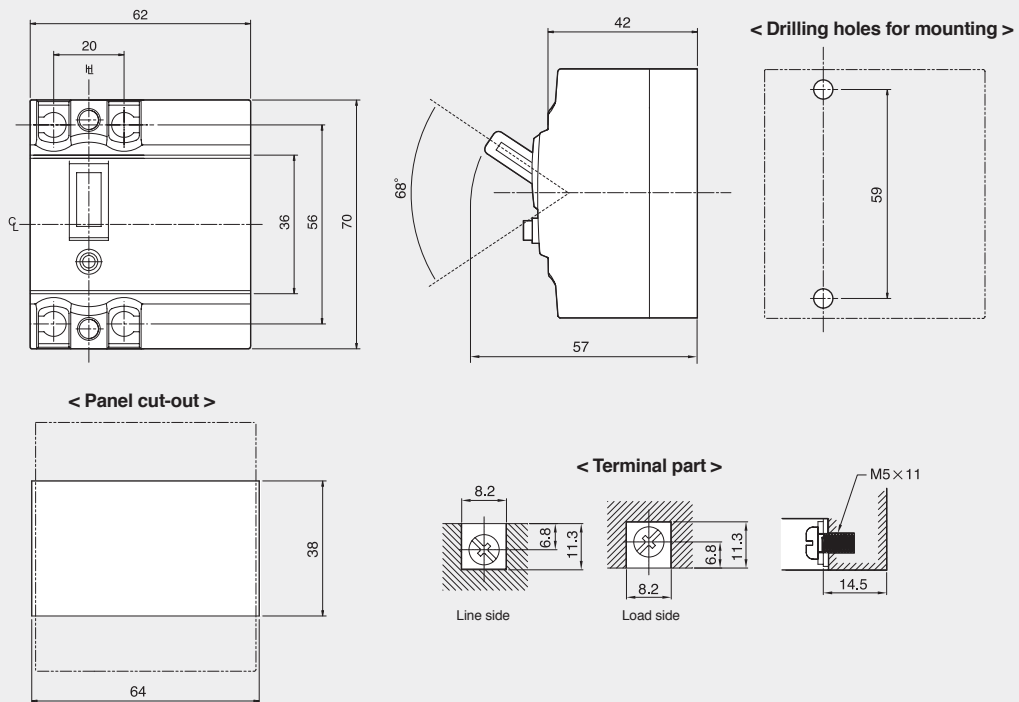
- HiGD32
- HiGD32h



■ Dimensions

(Unit: mm)

Direct mounting

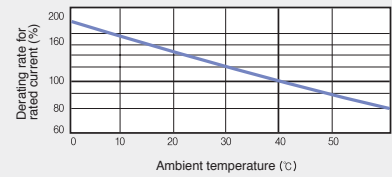
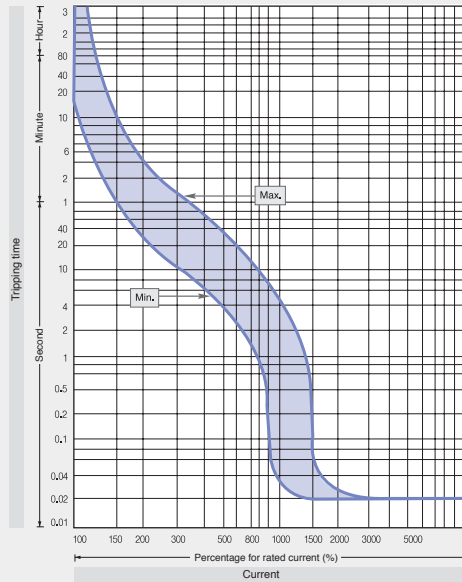


※ \ominus : Center line H : Handle center line



- HiGD32F
- HiGD33F
- HiGD52F
- HiGD53F

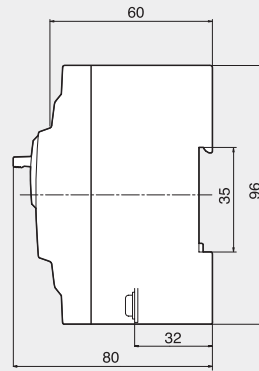
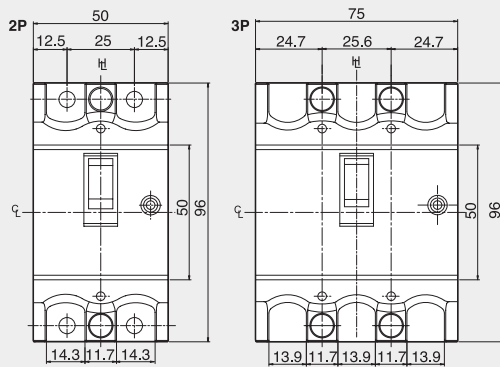
■ Tripping & temperature derating curves



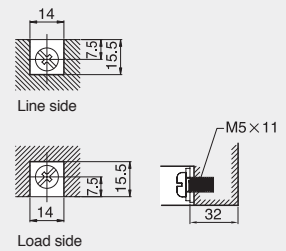
■ Dimensions

(Unit: mm)

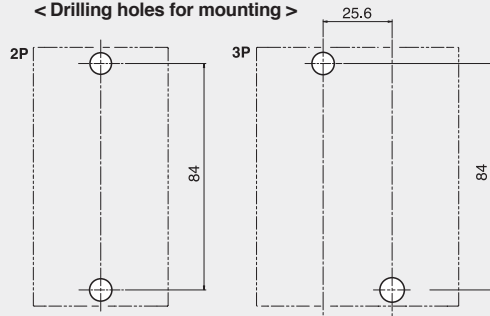
Direct mounting



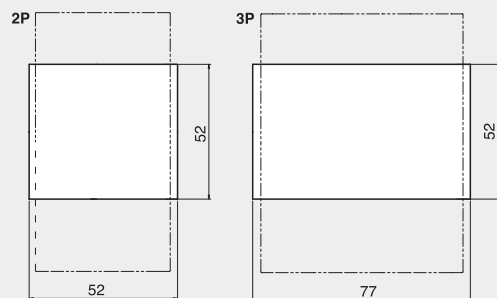
< Terminal part >



< Drilling holes for mounting >



< Panel cut-out >



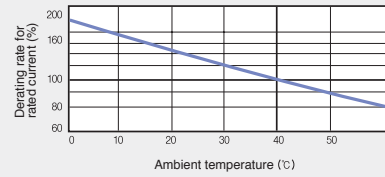
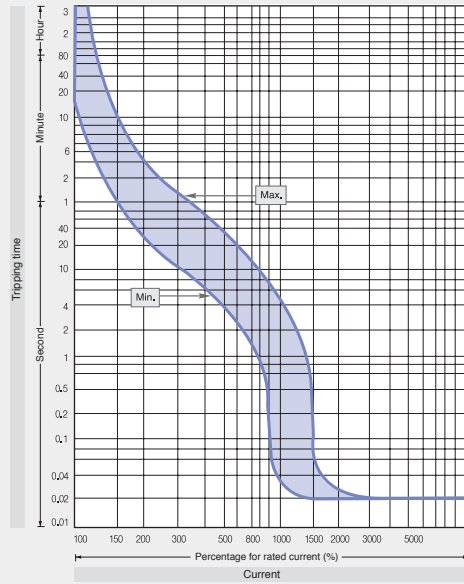
※ C: Center line H: Handle center line

Mini earth leakage circuit breaker HiGC & HiGD / 30-100AF 1.5-10kA 10-100A 15-200mA



- HiGD102F
- HiGD103F

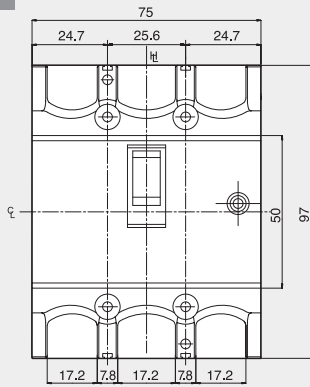
■ Tripping & temperature derating curves



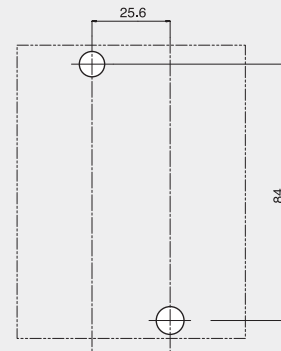
■ Dimensions

(Unit: mm)

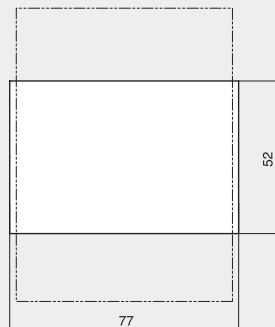
Direct mounting



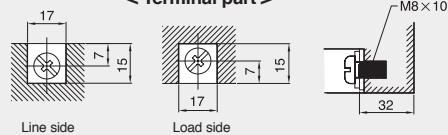
< Drilling holes mounting >



< Panel cut-out >



< Terminal part >



※ C: Center line H: Handle center line