



Circuit Protectors



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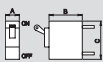
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List of Standard Series



Frame Size			30AF						
Type			DCP 30 PS Series			DCP 30 SS Series			
Model			DCP 31 PS	DCP 32 PS	DCP 33 PS	DCP 31 SS	DCP 32 SS	DCP 33 SS	
Ratings	No. of poles		1	2	3	1	2	3	
	Rated current (In) A		0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30 [34]						
	Rated voltage (Ue)	AC (V)	220V / 250V						
		DC (V)	65V						
Rated breaking capacity (kA) UL 1077 KS C 8321 IEC 60934	AC	380V	-						
		250V	1.0						
		220V	1.5						
	DC	65V	1.0						
Trip characteristics			Instantaneous, High speed, Middle speed, Low speed type						
Life expectancy		Mechanical	4,000 times						
		Electrical	6,000 times						
Dimension (mm) 	A	16.5	32.5	49	16.5	32.5	49		
	B	42			42				
	C	42			42				
Weight (g)			40	81	122	40	81	123	
Overcurrent trip method			Hydraulic Magnetic (HM)						
Terminal connection method			Plug Type			Side Screw Type			
Installation method			Front plate screw tightening (flush mounting)						
Internal circuits	Series		●			●			
	Parallel		-			-			
	Dual		-			-			
	Relay (Current type)		-			-			
	Switch Only		●			●			
	Inertia Delay		●			●			
Accessories	Aux. switch W		●			●			
	Alarm switch E		●			●			
	Voltage type		-			-			
	DIN-Rail Socket		-			-			
Standards acquired	KSC 8321		●			●			
	UL 1077		●			●			
	CSA		●			●			
	CCC		●			●			
	CE		-			-			
	TÜV		●			●			
	PSE(Japan)		●			●			

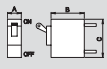
Note 1. Rating within the parenthesis of rated current is the specification of a special order. 2. For standards acquired, refer to the List of Certifications acquired by Model Name.



	30AF						
	DCP 30 PP/PA Series				DCP 30 TS Series		
	DCP 31 PP	DCP 32 PP	DCP 33 PP	DCP 31 PA	DCP 31 TS	DCP 32 TS	DCP 33 TS
	1	2	3	1	1	2	3
	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30				3, 4, 5, 7, 10, 15, 20, 25, 320V / 250V		
	65V						
	-						
	1.0						
	1.5						
	1.0						
	Instantaneous, High speed, Middle speed, Low speed type						
	4,000 times						
	6,000 times						
	16.5	32.5	49	16.5	16.5	32.5	49
	42				42		
	42				42		
	40	81	122	41	41	82	130
	Hydraulic Magnetic (HM)						
	Terminal type for PCB				Plug - in Type		
	Front plate screw tightening (flush mounting)						
	●			●	●		
	-			-	-		
	-			-	-		
	-			-	-		
	●			●	●		
	●			●	●		
	●			●	●		
	●			●	●		
	-			-	-		
	-			-	-		
	●			●	●		
	-			-	-		
	●			-	●		
	-			-	-		
	-			-	-		
	-			-	-		
	-			-	-		

List of Standard Series



Frame Size			30AF						
Type			DCP 30 PR Series			DCP 30 SR Series			
Model			DCP 31 PR	DCP 32 PR	DCP 33 PR	DCP 31 SR	DCP 32 SR	DCP 33 SR	
Ratings	No. of poles		1	2	3	1	2	3	
	Rated current (In) A		0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30(40, 45)						
	Rated voltage (Ue)	AC(V)	220V / 250V						
		DC(V)	65V						
Rated breaking capacity (kA) UL 1077 KS C 8321 IEC 60934	AC	380V	-						
		250V	1.5						
		220V	1.5						
	DC	65V	1.0						
Trip characteristics			Instantaneous, High speed, Middle speed, Low speed type						
Life expectancy		Mechanical	4,000 times						
		Electrical	6,000 times						
Dimension (mm) 	A	19	38	57	19	38	57		
	B	40			40				
	C	51			51				
Weight (g)			56	115	176	57	117	181	
Overcurrent trip method			Hydraulic Magnetic (HM)						
Terminal connection method			Plug Type			Side Screw Type			
Installation method			Front plate screw tightening (flush mounting)						
Internal circuits	Series		●			●			
	Parallel		●			●			
	Dual		-			-			
	Relay (Current type)		●			●			
	Switch Only		●			●			
	Inertia Delay		-			-			
Accessories	Aux. switch W		●			●			
	Alarm switch E		-			-			
	Voltage type		●			●			
	DIN-Rail Socket		●			-			
Standards acquired	KSC 8321		●			●			
	UL 1077		●			●			
	CSA		-			-			
	CCC		-			-			
	CE		-			-			
	TÜV		-			-			
	PSE(Japan)		●			●			

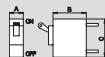
Note 1. Rating within the parenthesis of rated current is the specification of a special order. 2. For standards acquired, refer to the List of Certifications acquired by Model Name.



	50AF								
	DCP 50 PR Series			DCP 50 SR Series			DCP 50 TR Series		
	DCP 51 PR	DCP 52 PR	DCP 53 PR	DCP 51 SR	DCP 52 SR	DCP 53 SR	DCP 51 TR	DCP 52 TR	DCP 53 TR
	1	2	3	1	2	3	1	2	3
	3, 4, 5, 7, 10, 15, 20, 25, 30 [40, 45, 50]								
	220V/250V								
	65V								
	-								
	1.5								
	1.5								
	1.0								
	Instantaneous, High speed, Middle speed, Low speed type								
	4,000 times								
	6,000 times								
	19	38	57	19	38	57	19	38	57
	40			40			40		
	51			51			51		
	58	119	182	58	119	182	60	120	185
	Hydraulic Magnetic (HM)								
	Plug Type			Side Screw Type			Plug-in Type		
	Front plate screw tightening (flush mounting)								
	●			●			●		
	●			●			-		
	-			-			-		
	●			●			-		
	●			●			●		
	-			-			-		
	●			●			●		
	-			-			-		
	●			●			-		
	●			-			-		
	●			●			●		
	-			-			-		
	-			-			-		
	-			-			-		
	-			-			-		
	-			-			-		
	-			-			-		

List of Standard Series



Frame Size			50AF								
Type			DCP 50 DR Series			DCP 50 DF Series		DCP 50 DG Series			
Model			DCP 51 DR	DCP 52 DR	DCP 53 DR	DCP 51 DF	DCP 52 DF	DCP 51 DG	DCP 52 DG		
Ratings	No. of poles		1	2	3	1	2	1	2		
	Rated current (In) A		0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30			0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50					
	Rated voltage (Ue)	AC(V)	220V/250V								
		DC(V)	65V								
Rated breaking capacity (kA) UL 1077 KS C 8321 IEC 60934	AC	380V	-								
		250V	1.5			1.5		-			
		220V	1.5			1.5		2.5			
	DC	65V	1.0			1.0		1.5			
Trip characteristics			Instantaneous, High speed, Middle speed, Low speed type								
Life expectancy		Mechanical	4,000 times								
		Electrical	6,000 times								
Dimension (mm) 	A	16.5	33	49.5	25	50	25	50			
	B	61.4				65					
	C	67				67.5					
Weight (g)			63	128	184	107	219	107	219		
Overcurrent trip method			Hydraulic Magnetic (HM)								
Terminal connection method			Screw Type								
Installation method			DIN-Rail, Screw								
Internal circuits	Series		●			●					
	Parallel		-			-					
	Dual		-			-					
	Relay (Current type)		-			-					
	Switch Only		●			●					
	Inertia Delay		●			-					
Accessories	Aux. switch W		●			●					
	Alarm switch E		●			-					
	Voltage type		-			-					
	DIN-Rail Socket		-			-					
Standards acquired	KSC 8321		●			●					
	UL 1077		●			-					
	CSA		-			-					
	CCC		-			-					
	CE		● Note 1			-					
	TÜV		● Note 1			-					
PSE(Japan)		●			●		-				

Note 1. Only AC is acquired for CE and TÜV certification. 2. For standards acquired, refer to the List of Certification acquired by Model Name.

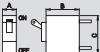
3. Only low speed AC has UL, CSA certification from DCP50BU Series.



	50AF							
	DCP 50 BH Series			DCP 50 CH Series			DCP 50 BU Series	
	DCP 51 BH	DCP 52 BH	DCP 53 BH	DCP 51 CH	DCP 52 CH	DCP 53 CH	DCP 51 BU	DCP 52 BU
	1	2	3	1	2	3	1	2
	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50							
	220V/250V							
	65V							
	-							
	1.5							
	1.5							
	1.0							
	Instantaneous, High speed, Middle speed, Low speed type							
	4,000 times							
	6,000 times							
	19	38	57	19	38	57	25	50
	47			47			53.9	
	63.5			63.5			65	
	83	170	255	83	170	255	118	240
	Hydraulic Magnetic (HM)							
	Bolt Type			Clip Type			Bolt Type	
	Front plate screw tightening (flush mounting)							
	●			●			●	
	●			-			-	
	-			-			-	
	●			-			-	
	●			●			●	
	●			●			-	
	●			●			●	
	●			●			●	
	●			-			-	
	-			-			-	
	●			●			●	
	●			-			● Note 3	
	-			-			● Note 3	
	●			-			●	
	●			-			●	
	-			-			-	
	●			●			●	

List of Standard Series



Frame Size			50AF						100AF			
Type			DCP 50 TH Series			DCP 50 SH Series			DCP 70 BH Series			
Model			DCP 51 TH	DCP 52 TH	DCP 53 TH	DCP 51 SH	DCP 52 SH	DCP 53 SH	DCP 71 BH	DCP 72 BH	DCP 73 BH	
Ratings	No. of poles		1	2	3	1	2	3	1	2	3	
	Rated current (In) A		0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50						60, 75, 100			
	Rated voltage (Ue)	AC(V)	220V/250V						220V/250V/380V			
		DC(V)	65V						65V			
Rated breaking capacity (kA) UL 1077 KS C 8321 IEC 60934	AC	380V	-						1.0			
		250V	1.5						1.5			
		220V	1.5						1.5			
	DC	65V	1.0						1.0			
Trip characteristics			Instantaneous, High speed, Middle speed, Low speed type									
Life expectancy		Mechanical	4,000 times									
		Electrical	6,000 times									
Dimension (mm) 	A	19	38	57	19	38	57	19	38	57		
	B	47			47			47				
	C	63.5			63.5			63.5				
Weight (g)			98	199	300	82	167	253	90	191	275	
Overcurrent trip method			Hydraulic Magnetic (HM)									
Terminal connection method			Screw Type						Bolt Type			
Installation method			Front plate screw tightening (flush mounting)									
Internal circuits	Series		●			●			●			
	Parallel		-			-			-			
	Dual		-			-			-			
	Relay (Current type)		-			-			●			
	Switch Only		●			●			●			
	Inertia Delay		●			●			●			
Accessories	Aux. switch W		●			●			●			
	Alarm switch E		●			●			●			
	Voltage type		-			-			●			
	DIN-Rail Socket		-			-			-			
Standards acquired	KSC 8321		●			●			●			
	UL 1077		-			-			●			
	CSA		-			-			-			
	CCC		-			-			●			
	CE		-			-			●			
	TÜV		-			-			-			
	PSE(Japan)		●			●			●			

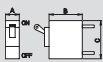
Note 1. For standards acquired, refer to the List of Certification acquired by Model Name. 2. Only 1P and 2P from 70PH Series have UL certification.



	100AF								
	DCP 70 PH Series			DCP 70 TH Series			DCP 70 SH Series		
	DCP 71 PH	DCP 72 PH	DCP 73 PH	DCP 71 TH	DCP 72 TH	DCP 73 TH	DCP 71 SH	DCP 72 SH	DCP 73 SH
	1	2	3	1	2	3	1	2	3
	3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50, 60, 75, 100			65, 75					
	220V/250V			220V/250V/380V					
	65V			65V					
	-			1.0					
	1.0			1.5					
	1.5			1.5					
	1.5			1.0					
	Instantaneous, High speed, Middle speed, Low speed type								
	4,000 times								
	6,000 times								
	19	38	57	19	38	57	19	38	57
	47			47			47		
	63.5			63.5			63.5		
	98	199	300	100	201	303	84	171	259
	Hydraulic Magnetic (HM)								
	Plug-in Type			Screw Type					
	Front plate screw tightening (flush mounting)								
	●			●			●		
	-			-			-		
	-			-			-		
	-			-			-		
	●			●			●		
	●			●			●		
	●			●			●		
	●			●			●		
	-			-			-		
	-			-			-		
	●			●			●		
	●			-			-		
	-			-			-		
	-			-			-		
	-			-			-		
	-			-			-		
	-			●			●		

List of Standard Series



Frame Size			100AF												
Type			DCP 100H Series												
Model			DCP 101 HS	DCP 102 HS	DCP 103 HS	DCP 101 HC	DCP 102 HC	DCP 103 HC	DCP 101 HB	DCP 102 HB	DCP 103 HB	DCP 101 HP	DCP 102 HP	DCP 103 HP	
Ratings	No. of poles		1	2	3	1	2	3	1	2	3	1	2	3	
	Rated current (In) A		5, 7, 10, 15, 20, 25, 30, 40, 45, 50						5, 7, 10, 15, 20, 25, 30, 40, 45, 50, 60, 75, 100						
	Rated voltage (Ue)	AC (V)	220V / 250V												
		DC (V)	65V												
Rated breaking capacity (kA) UL 1077 KS C 8321 IEC 60934	AC	380V	-												
		250V	5kA												
		220V	5kA												
	DC	65V	10kA												
Trip characteristics			Instantaneous, High speed, Middle speed, Low speed type												
Life expectancy		Mechanical	4,000 times												
		Electrical	6,000 times												
Dimension (mm) 	A	19	38	57	19	38	57	19	38	57	19	38	57		
	B	47						47							
	C	63.5						63.5							
Weight (g)			86	172	258	91	182	273	100	200	300	105	210	315	
Overcurrent trip method			Hydraulic Magnetic (HM)												
Terminal connection method			Screw Type			Clip Type			Bolt Type			Plug-in Type			
Installation method			Front plate screw tightening (flush mounting)												
Internal circuits	Series	●			●			●			●				
	Parallel	-			-			●			-				
	Dual	-			-			●			-				
	Relay (Current type)	-			-			●			-				
	Switch Only	●			●			●			●				
	Inertia Delay	●			●			●			●				
Accessories	Aux. switch W	●			●			●			●				
	Alarm switch E	●			●			●			●				
	Voltage type	-			-			●			-				
	DIN-Rail Socket	-			-			-			-				
Standards acquired	KSC 8321	●			●			●			●				
	UL 1077	-			-			-			-				
	CSA	-			-			-			-				
	CCC	-			-			-			-				
	CE	-			-			-			-				
	TÜV	-			-			-			-				
	PSE(Japan)	-			-			-			-				



	100AF		225AF		20AF
	DCP 100 B Series		DCP 250 B Series		DCP 21 HI Series
	DCP 101 B	DCP 101 P	DCP 251 B	DCP 252 B	DCP 21 HI
	1		1	2	1
	60, 75, 100		100, 125, 150, 175, 200, 225, 250		0.3, 0.5, 1, 2, 3, 5, 8, 10, 15
	220V		-		-
	160V		65V / 160V		32V
	-		-		-
	-		-		-
	5.0		-		-
	5.0		25.0 / 10.0		0.3 - 5A 6In(A) / 8 - 15A 10In(A)
	Instantaneous, High speed, Middle speed, Low speed type				-
	4,000 times				240
	6,000 times				100
	26		38.2	76.5	19
	74		74.4		19
	144		181		39
	380		800	1600	13
	Hydraulic Magnetic (HM)				Thermal Magnetic
	Bolt, Screw Type				Plug Type
	Front plate screw tightening (flush mounting)				Front mounting
		●			●
		-			-
		-			-
		-			-
		●			-
		-			-
		●			●
		-			-
		-			-
		-			-
	●		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-
	-		-		-

List of Certifications acquired by Model Name

AC

No	Series	Pole	Rated current	Rated voltage	Breaking capacity							
1	DCP 30PS/SS	1-3	1-30A	AC250V	UL: 1.0kA PSE: 1.5kA CCC: 1.5kA	3A or above (Safety Certification for below 3A)	Instantaneous High speed Middle speed Low speed		High speed Middle speed Low speed	High speed Middle speed Low speed	Low speed	Instantaneous High speed Middle speed Low speed
2	DCP 30PR/SR DCP 30PRN/SRN	1-3	1-30A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed		High speed Middle speed Low speed			
3	DCP 50DF	1-2	1-30A	AC220V	1.5kA		Instantaneous High speed Middle speed Low speed					
4	DCP 50DR	1-3	1-30A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed	Instantaneous High speed Middle speed Low speed	Instantaneous High speed Middle speed Low speed		Instantaneous High speed Middle speed Low speed	
5	DCP 50BH	1-3	1-50A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed	Instantaneous High speed Middle speed Low speed	High speed Middle speed Low speed			Instantaneous High speed Middle speed Low speed
6	DCP 70BH	1-3	51-100A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed	Instantaneous High speed Middle speed Low speed	High speed Middle speed Low speed			Instantaneous High speed Middle speed Low speed
7	DCP 50TH,SH	1-3	1-50A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed					
8	DCP 70TH,SH	1-3	1-50A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed					
9	DCP 50BU	1-2	1-50A	AC250V	1.5kA		Instantaneous High speed Middle speed Low speed	Instantaneous High speed Middle speed Low speed	Low speed	Low speed		Instantaneous High speed Middle speed Low speed
10	DCP 70PH	1-2	1-100A	AC250V	1.5kA				High speed Middle speed Low speed			



DC

No	Series	Pole	Rated current	Rated voltage	Breaking capacity							
1	DCP 30PS/SS	1-3	1-30A	DC65V	1.0kA				High speed Middle speed Low speed	High speed Middle speed Low speed		
2	DCP 50DR	1-3	1-30A	DC65V	1.0kA				Instantaneous High speed Middle speed Low speed			
3	DCP 50BH	1-3	1-50A	DC65V	1.0kA				High speed Middle speed Low speed			
4	DCP 70BH	1-3	51-75A	DC65V	1.0kA				High speed Middle speed Low speed			
5	DCP 70PH	1-2	1-100A	DC65V	1.0kA				High speed Middle speed Low speed			

Product Specification

Model	DCP30PSR, DCP30SSR, DCP30PPR
No. of poles	1 Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30
Rated breaking capacity	1.5kA(AC220V) / 1.0kA(DC65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Switch with Aux. S/W, Switch only
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-10°C~+65°C
Aux. contact capacity	AC250V : 3A / DC30V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-400	15-70	0.1-10	0.004-2.7	0.004-0.35	0.004-0.035
	Middle speed (M)	NO Trip	7-150	2.2-25	0.008-4	0.004-1.3	0.004-0.18	0.004-0.03
	High speed (H)	NO Trip	0.5-10	0.15-3	0.006-0.45	0.004-0.13	0.004-0.053	0.004-0.028
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.009	0.005-0.035	0.004-0.025	0.004-0.02	0.004-0.02

Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	15-100	0.3-12	0.004-2	0.004-0.33	0.004-0.05
	Middle speed (M)	NO Trip	4-70	1.4-18	0.13-5	0.004-1.8	0.004-0.32	0.004-0.058
	High speed (H)	NO Trip	0.5-25	0.2-4.5	0.011-0.7	0.004-0.23	0.004-0.08	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.085	0.005-0.028	0.004-0.02	0.004-0.019	0.004-0.018

Ordering Method

DCP

31

PS

R

Symbol	No. of poles
31	1 Pole

Symbol	Terminal type
PS	Plug
SS	Side Screw
PP	Print board

Symbol	Handle type
R	Rocker Handle

007

A

M

W

D

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A

Symbol	Power used
D	DC
A	AC

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

Note 1

Note 1. If an inrush current protection type is required, add a D on the order sheet (10 times protection of rated current at 8ms of sine wave).

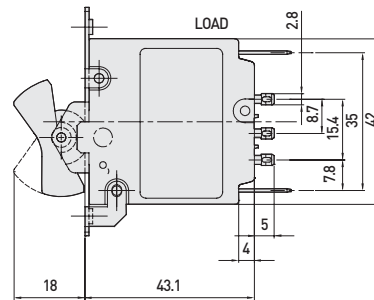
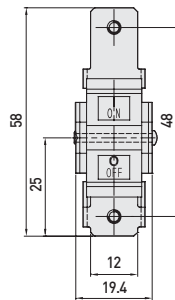
Note 2. When ordering Switch only type and Switch with Aux. S/W type, the operating characteristics is undesignated.

Circuit Protectors

DCP 30PRS • SSR • PPR

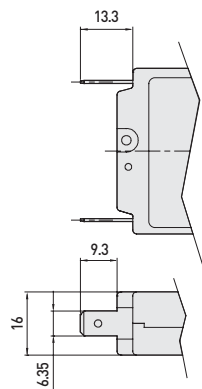
Unit : mm

Dimension

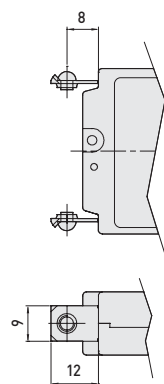


Dimension by internal circuits

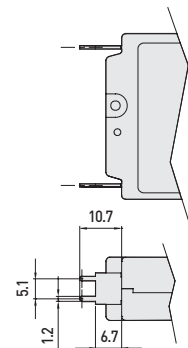
■ Plug Type (PS)



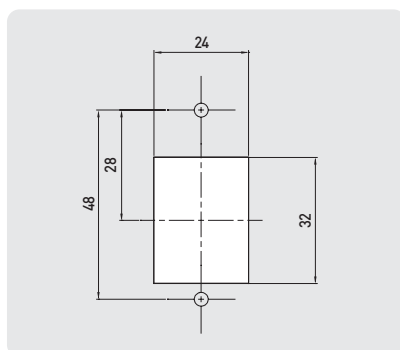
■ Side Screw Type (SS)



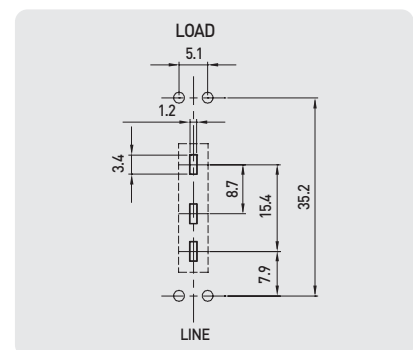
■ Print Type (PP)



Mounting hole dimension



PPR print board mounting dimension



Circuit Protectors

Product Specification

Model	DCP30PSR, DCP30SSR, DCP30PPR
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, (34).
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V) / 1.0kA (AC 250V / DC 65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Switch with Aux. S/W, Switch only
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10-100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C~+85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Note Rated current represented within a parenthesis is a special order specification (corresponding to DCP 30SS).

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-400	15-70	0.1-10	0.004-2.7	0.004-0.35	0.004-0.035
	Middle speed (M)	NO Trip	7-150	2.2-25	0.008-4	0.004-1.3	0.004-0.18	0.004-0.03
	High speed (H)	NO Trip	0.5-10	0.15-3	0.006-0.45	0.004-0.13	0.004-0.053	0.004-0.028
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.009	0.005-0.035	0.004-0.025	0.004-0.02	0.004-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	15-100	0.3-12	0.004-2	0.004-0.33	0.004-0.05
	Middle speed (M)	NO Trip	4-70	1.4-18	0.13-5	0.004-1.8	0.004-0.32	0.004-0.058
	High speed (H)	NO Trip	0.5-25	0.2-4.5	0.011-0.7	0.004-0.23	0.004-0.08	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.085	0.005-0.028	0.004-0.02	0.004-0.019	0.004-0.018

Ordering Method

DCP

33

P

S

N

Symbol	No. of poles
31	1 Pole
32	2 Pole
33	3 Pole

Symbol	Terminal type
P	Plug
S	Side Screw
T	Plug-In

Symbol	Handle type
N	1 - Handle
H	H - Handle

007

A

M

W

D

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A

Symbol	Power used
D	DC
A	AC(50/60Hz)

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

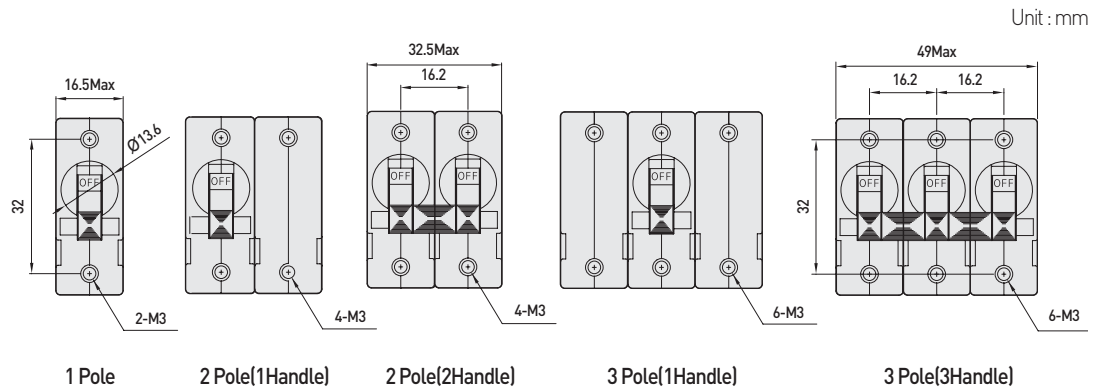
Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

Note 1

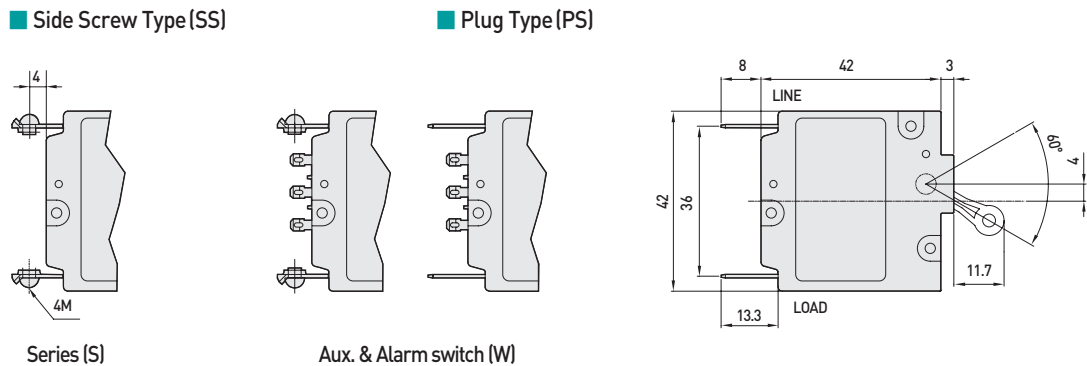
Note 1. If an inrush current protection type is required, add a D on the order sheet (10 times protection of rated current at 8ms of sine wave).

DCP 30PRS · SS · TS

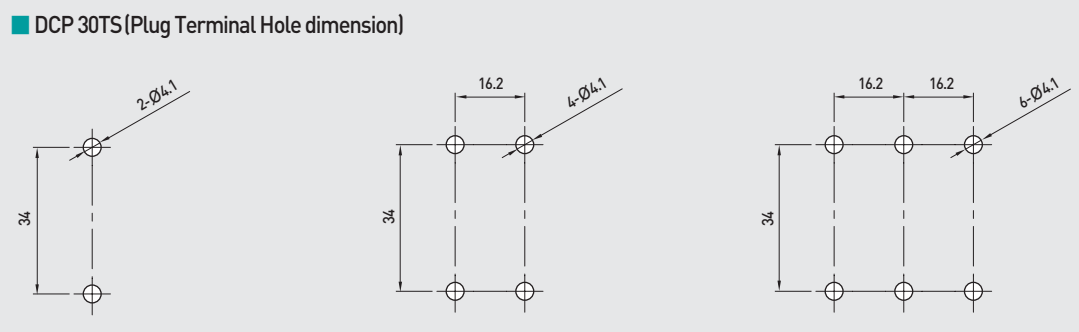
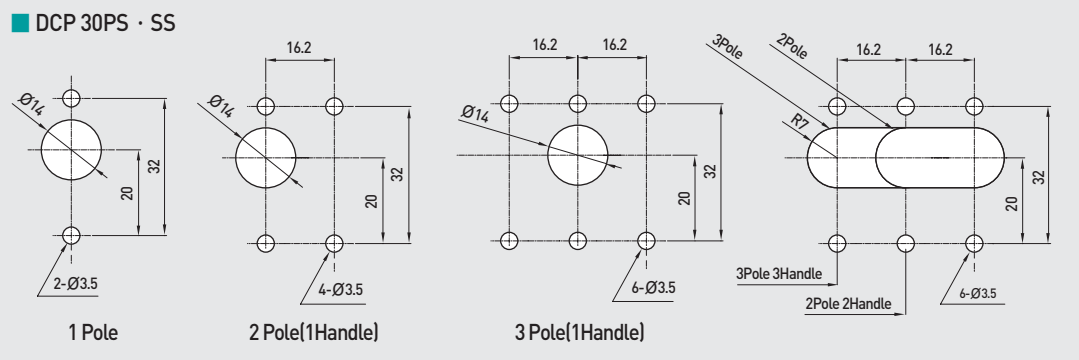
Dimension by
No. of poles



Dimension by
internal circuit



Mounting hole
dimension



DCP 30PA · PP

Product Specification

Model	DCP 30PA, DCP 30PP
No. of poles	1Pole / 1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30.
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Switch with Aux. S/W, Switch only
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C~+85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-400	15-70	0.1-10	0.004-2.7	0.004-0.35	0.004-0.035
	Middle speed (M)	NO Trip	7-150	2.2-25	0.008-4	0.004-1.3	0.004-0.18	0.004-0.03
	High speed (H)	NO Trip	0.5-10	0.15-3	0.006-0.45	0.004-0.13	0.004-0.053	0.004-0.028
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.009	0.005-0.035	0.004-0.025	0.004-0.02	0.004-0.02

Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	15-100	0.3-12	0.004-2	0.004-0.33	0.004-0.05
	Middle speed (M)	NO Trip	4-70	1.4-18	0.13-5	0.004-1.8	0.004-0.32	0.004-0.058
	High speed (H)	NO Trip	0.5-25	0.2-4.5	0.011-0.7	0.004-0.23	0.004-0.08	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.085	0.005-0.028	0.004-0.02	0.004-0.019	0.004-0.018

Ordering Method

DCP

31

PA

H

Symbol	No. of poles
31	1 Pole
32	2 Pole
33	3 Pole

Symbol	Terminal type
PA	Parallel
PP	Vertical

Symbol	Handle type
N	1 - Handle
H	H - Handle

007

A

M

W

D

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A

Symbol	Power used
D	DC
A	AC(50/60Hz)

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

Note 1

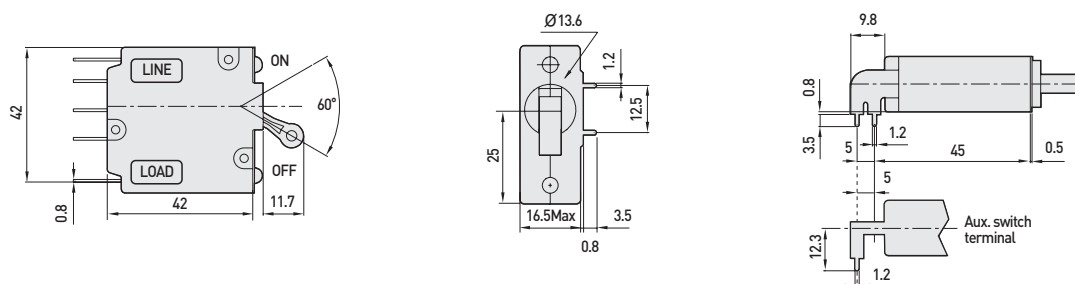
Note 1. If an inrush current protection type is required, add a D on the order sheet (10 times protection of rated current at 8ms of sine wave).

Circuit Protectors

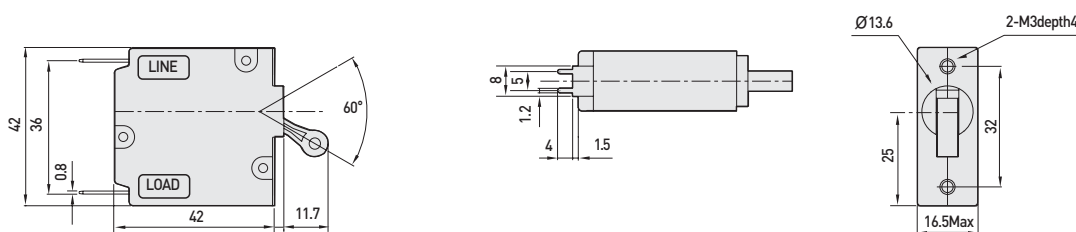
Dimension

■ DCP 30PA

Unit : mm



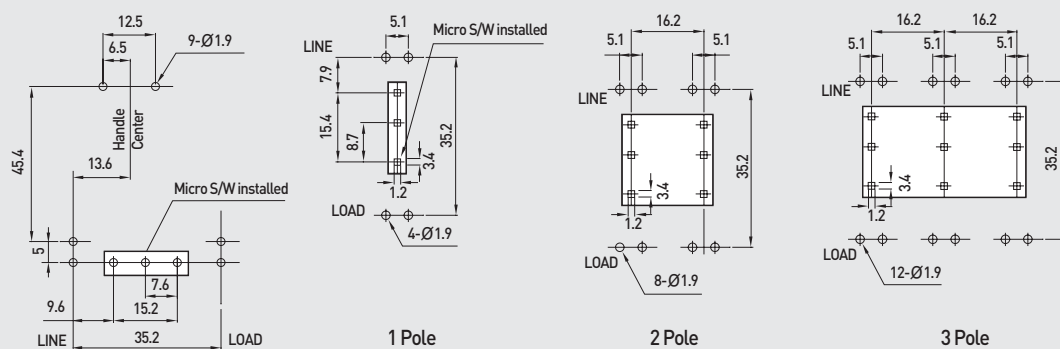
■ DCP 30PP



Print plate mounting dimension

■ DCP 30PA

■ DCP 30PP



Circuit Protectors

Product Specification

Model	DCP 30PR, DCP 30SR, DCP 50PR, DCP 50SR, DCP 50TR
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30 (40, 45, 50)
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)
Internal circuits & Accessories	Series, Parallel, Relay, Series with Aux. S/W, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C~+85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Note . Rated current represented within the parenthesis of rated current can only produce 50SR series.

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering Method

DCP

33

Symbol	No. of poles
31/51	1 Pole
32/52	2 Pole
33/53	3 Pole

P

Symbol	Terminal type
P	Plug
S	Side Screw
T	Plug-In

R

Symbol	Handle type
N	1 - Handle
H	H - Handle

007

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A

A

Symbol	Power used
D	DC
A	AC(50/60Hz)

M

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

W

Symbol	Circuit
S	Series
W	Series with Aux. S/W
C	Switch only
P	Parallel
R	Relay
F	Switch with Aux. S/W

200	20A
250	25A
300	30A
400	40A
450	45A
500	50A

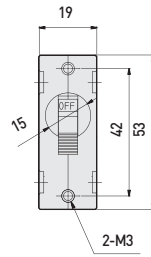
Note 1. DCP 50PR/TR series can be produced up to a maximum rating of 30A.

Note 2. Parallel and relay types can be produced up to 30A.

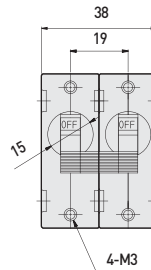
DCP 30PR · SR

Unit : mm

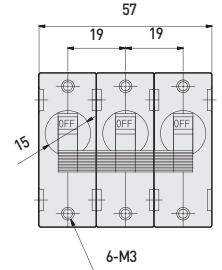
Dimension by No. of poles



1Pole

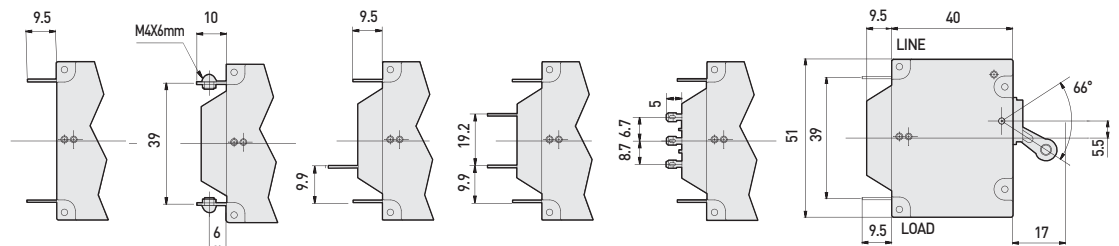


2Pole 2Handle



3Pole 3Handle

Dimension by internal circuits



Series (S)
Switch (C)

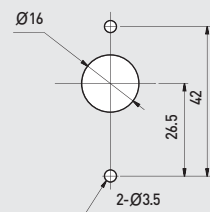
Side Screw
Type (SR)

Parallel (P)

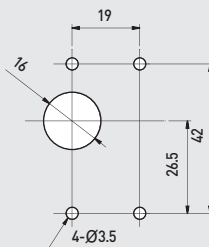
Relay (R)

Series Trip
with Aux. S/W (W)

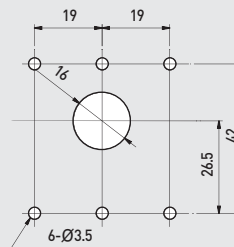
Mounting hole dimension



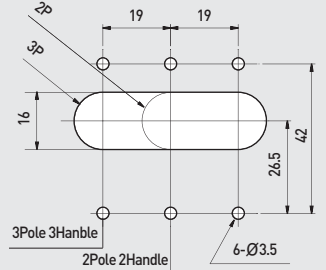
1Pole



2Pole (1Handle)

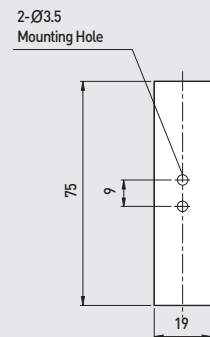


3Pole (1Handle)

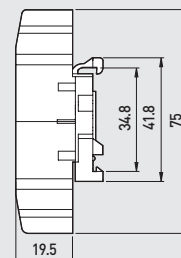
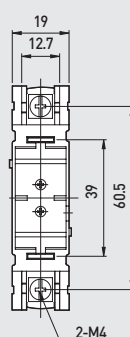


3Pole 3Handle
2Pole 2Handle

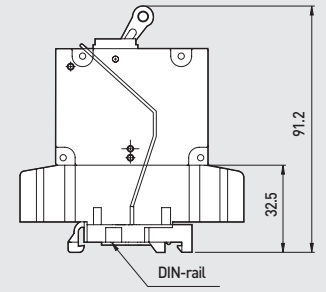
Mounting socket hole dimension



Socket mounting dimension



Socket

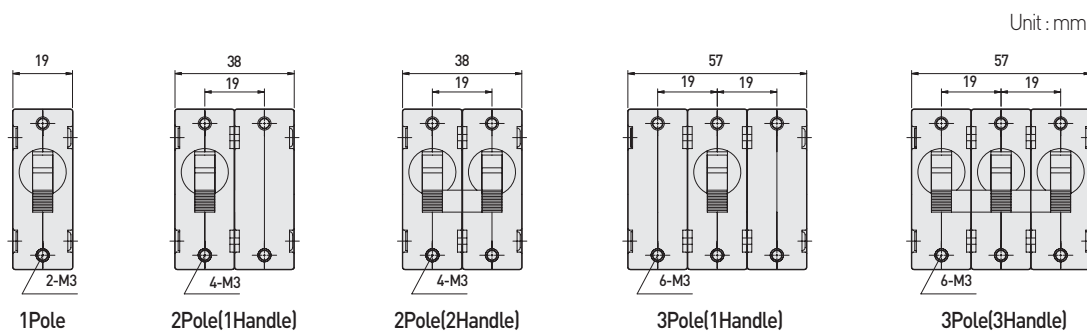


Socket installed

Circuit Protectors

50PR · SR · TR

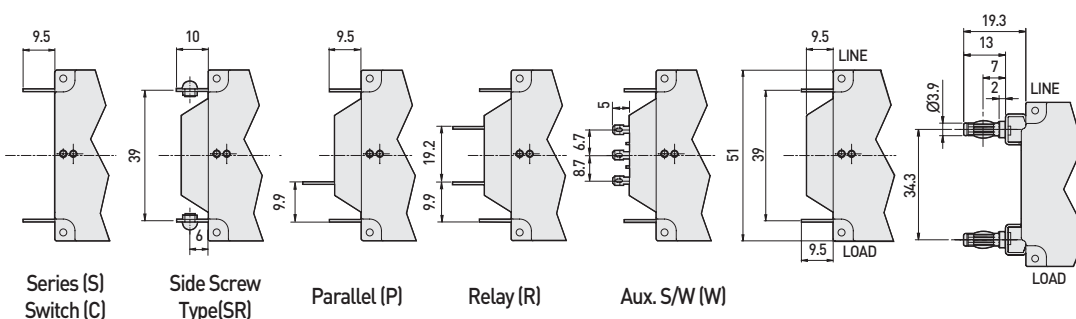
Dimension by
No. of poles



Dimension by
internal circuits

■ DCP 50PR · SR

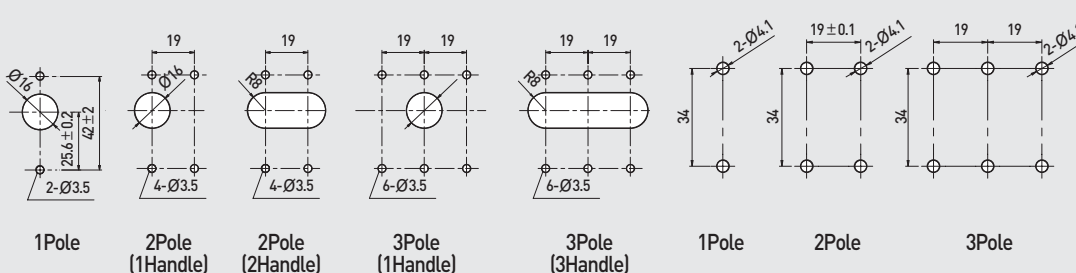
■ DCP 50TR



Mounting hole
dimension

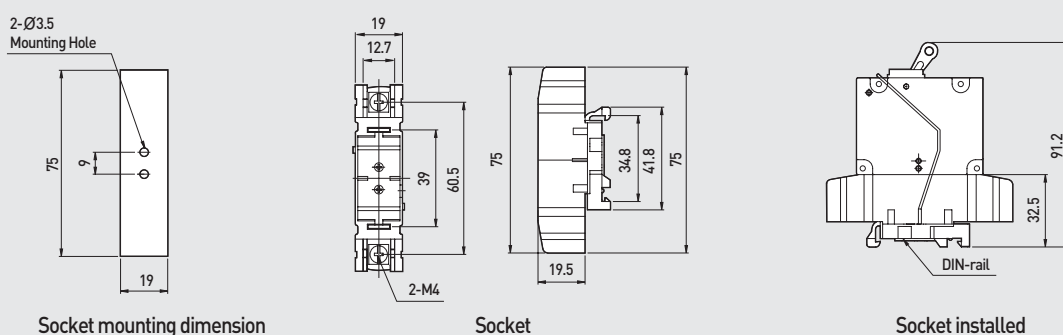
■ DCP 50PR · SR

■ DCP 50TR (Plug Terminal Hole dimension)



Mounting
socket hole
dimension

■ DCP 50PR · SR (Available below 30A)



Circuit Protectors

Product Specification

Model	DCP 50DF	DCP 50DG
No. of poles	1Pole, 2Pole	1Pole, 2Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50	
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)	2.5kA (AC 220V) / 1.5kA (DC 65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Switch only, Switch with Aux. S/W	
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger	
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V	
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)	
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)	
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)	
Ambient temperature	-40°C ~ +85°C (with rated current ON)	
Aux. contact capacity	AC250V : 3A / DC65V : 3A	

Time delay data by characteristics

Unit : sec

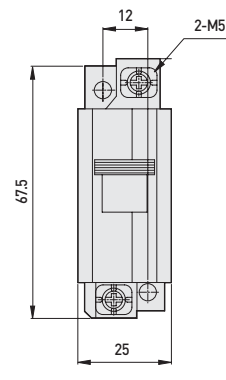
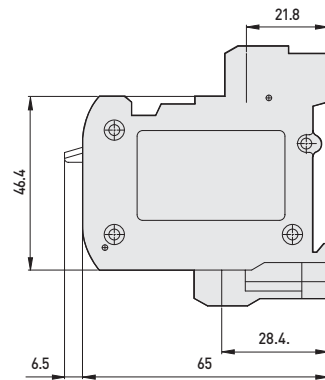
Characteristics	100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022
Characteristics	100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018

Ordering Method

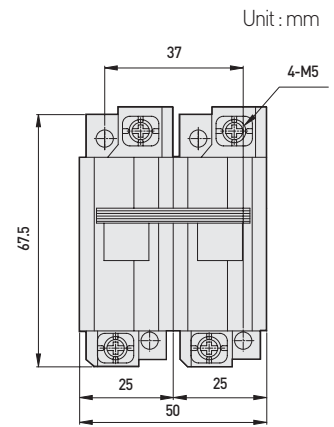
DCP		52		D		F		007		A		M		W	
Symbol	No. of poles	Symbol	Terminal type	Symbol	Symbol	Rated current	Symbol	Power used	Symbol	Characteristic	Symbol	Circuit			
51	1 Pole	D	Side Terminal (for DIN-rail)	F	003	0.3A	D	DC	I	Instantaneous	S	Series			
52	2 Pole			G	005	0.5A	A	AC 50/60Hz	H	High speed	W	Series with Aux. S/W			
					007	0.75A			M	Middle speed	C	Switch only			
					010	1A			L	Low speed	F	Switch with Aux. S/W			
					020	2A									
					030	3A									
					040	4A									
					050	5A									
					070	7A									
					100	10A									
					150	15A									
					200	20A									
					250	25A									
					300	30A									
					400	40A									
					450	45A									
					500	50A									

DCP 50DF · DG

Dimension by
No. of poles



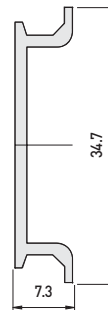
1Pole



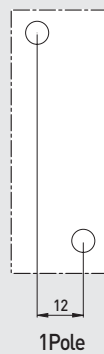
2Pole

Unit : mm

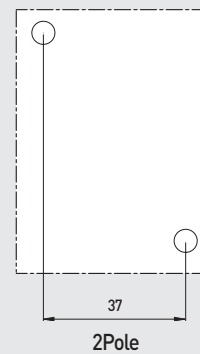
DIN-Rail
dimension



Mounting hole
dimension



1Pole



2Pole



DCP 50DR

Product Specification

Model	DCP 50DR
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30,
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm, Switch only S/W, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C~+85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-400	15-70	0.1-10	0.004-2.7	0.004-0.35	0.004-0.035
	Middle speed (M)	NO Trip	7-150	2.2-25	0.008-4	0.004-1.3	0.004-0.18	0.004-0.03
	High speed (H)	NO Trip	0.5-10	0.15-3	0.006-0.45	0.004-0.13	0.004-0.053	0.004-0.028
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.009	0.005-0.035	0.004-0.025	0.004-0.02	0.004-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	15-100	0.3-12	0.004-2	0.004-0.33	0.004-0.05
	Middle speed (M)	NO Trip	4-70	1.4-18	0.13-5	0.004-1.8	0.004-0.32	0.004-0.058
	High speed (H)	NO Trip	0.5-25	0.2-4.5	0.011-0.7	0.004-0.23	0.004-0.08	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.085	0.005-0.028	0.004-0.02	0.004-0.019	0.004-0.018

Ordering Method

DCP

50

DR

007

A

M

W

D

Symbol	No. of poles
51	1 Pole
52	2 Pole
53	3 Pole

Symbol	Mounting type
DR	DIN-Rail

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A
200	20A
250	25A
300	30A

Symbol	Power used
D	DC
A	AC 50/60Hz

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

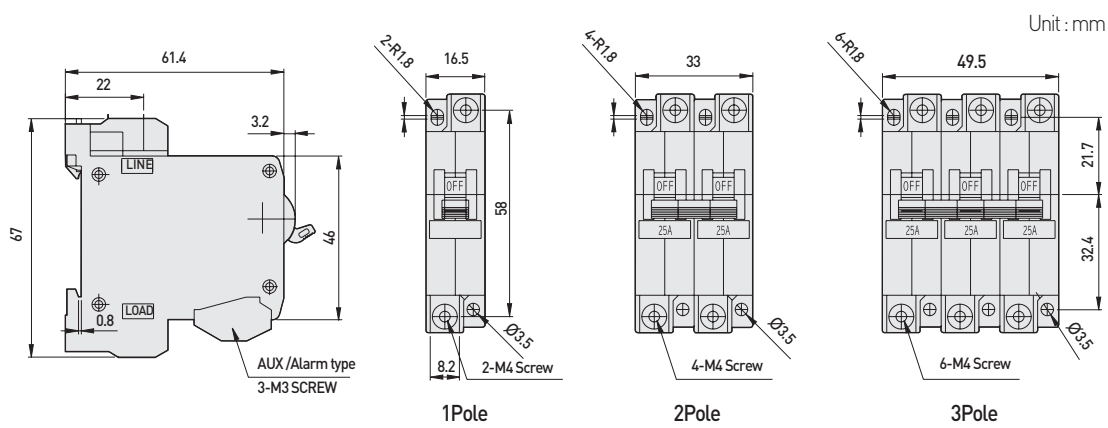
Note 1

Note : Power in use is AC/DC regardless of order symbol (D, A).

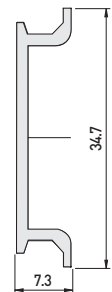
1. If an inrush current protection type is required, add a D on the order sheet (10 times protection of rated current at 8ms of sine wave).

Circuit Protectors

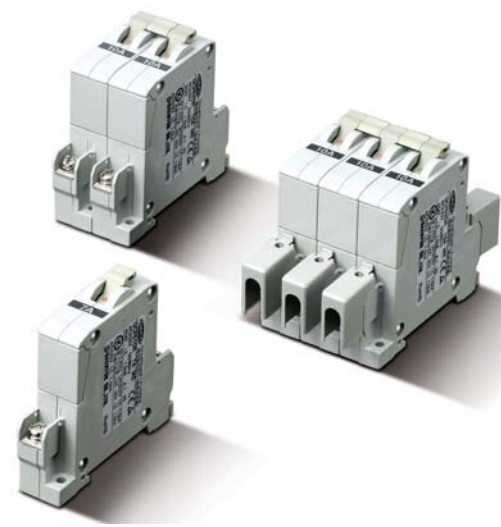
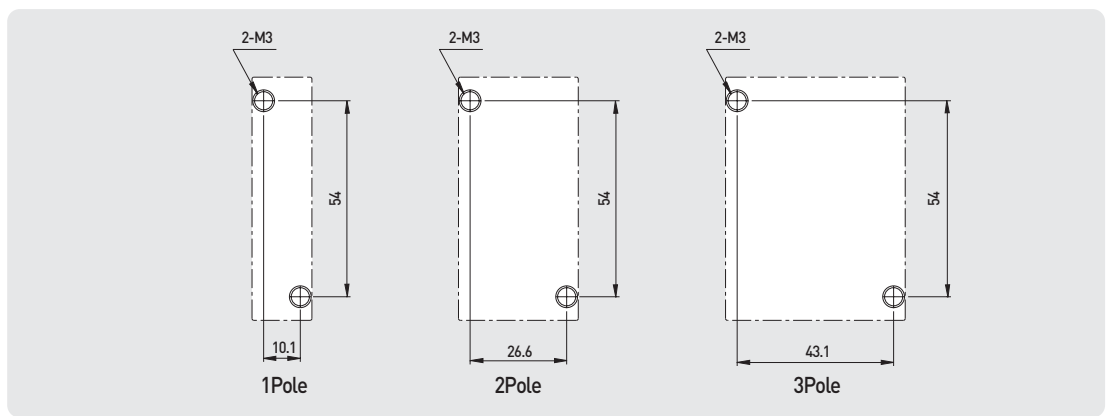
Dimension by
No. of poles



DIN-Rail
dimension



Mounting hole
dimension



Circuit Protectors

Product Specification

Model	DCP 50BH, DCP 50BU, DCP 50CH
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)
Internal circuits & Accessories	Series, Parallel, Relay, Series with Aux. S/W, Series with Alarm, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10-100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Note 1. Parallel and relay types are possible only for 50BH.

Time delay data by characteristics

		Unit : sec						
Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering Method

DCP

53

B

H

007

A

M

W

Symbol	No. of poles
51	1 Pole
52	2 Pole
53	3 Pole

Symbol	Mounting type
B	Bolt
C	Clip

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A
200	20A
250	25A
300	30A
400	40A
450	45A
500	50A

Symbol	Power used
D	DC
A	AC 50/60Hz

D

Note 1

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W
P	Parallel Note 1
R	Relay Note 2

Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

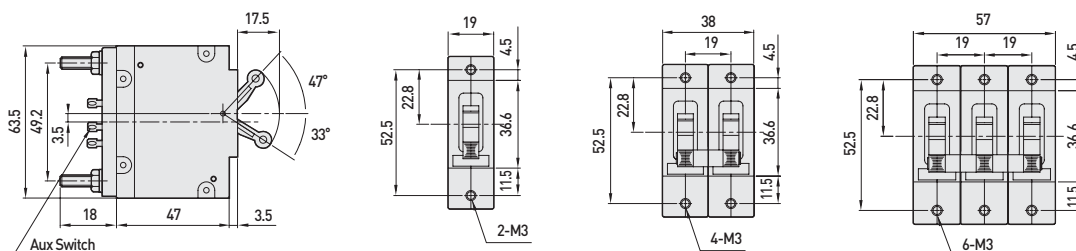
Note 2. CH type does not include Parallel and Relay types.

DCP 50BH · CH · BU

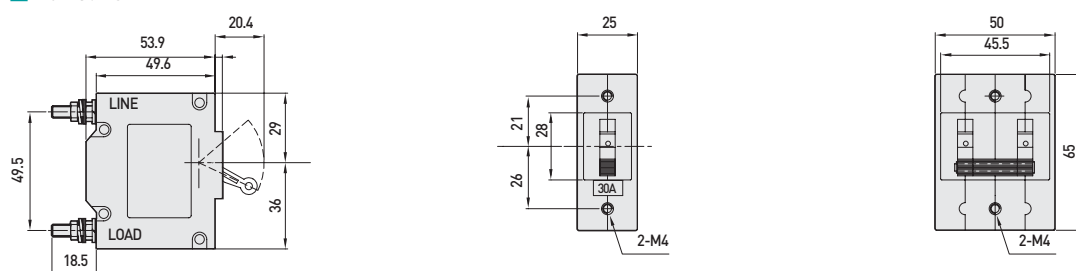
Dimension by
No. of poles

DCP 50BH · CH

Unit : mm

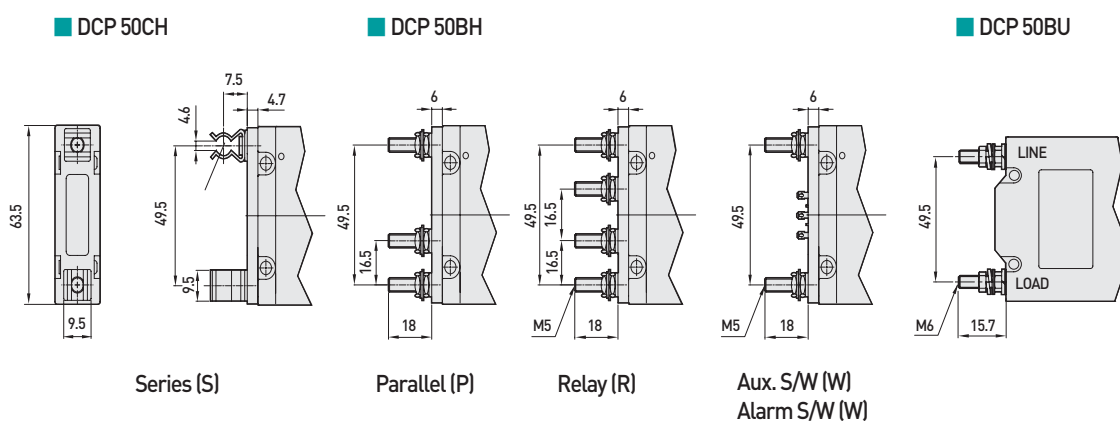


DCP 50BU



Dimension by
internal circuits

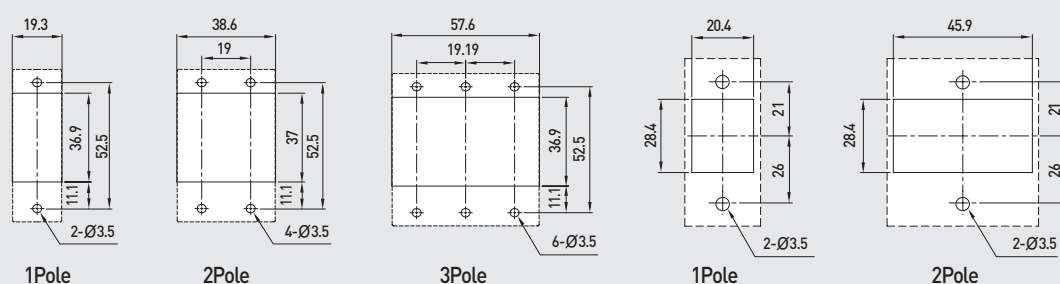
※ Direction of clips
can be changed
depending on the
specifications
required.



Mounting hole
dimension

DCP 50BH · CH

DCP 50BU



DCP 50SH · TH

Product Specification

Model	DCP 50SH, DCP 50TH
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50
Rated breaking capacity	1.5kA[AC 220V] / 1.0kA[DC 65V]
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C~+85°C (with rated current ON)
Aux. contact capacity	AC250V : 3A / DC65V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering Method

DCP

53

Symbol	No. of poles
51	1 Pole
52	2 Pole
53	3 Pole

SH

Symbol	Terminal type
SH	Tightening screw M5
TH	Hexagonal M5 nut

007

Symbol	Rated current
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A
200	20A
250	25A
300	30A
400	40A
450	45A
500	50A

A

Symbol	Power used
D	DC
A	AC 50/60Hz

D

Note 1

M

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

W

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

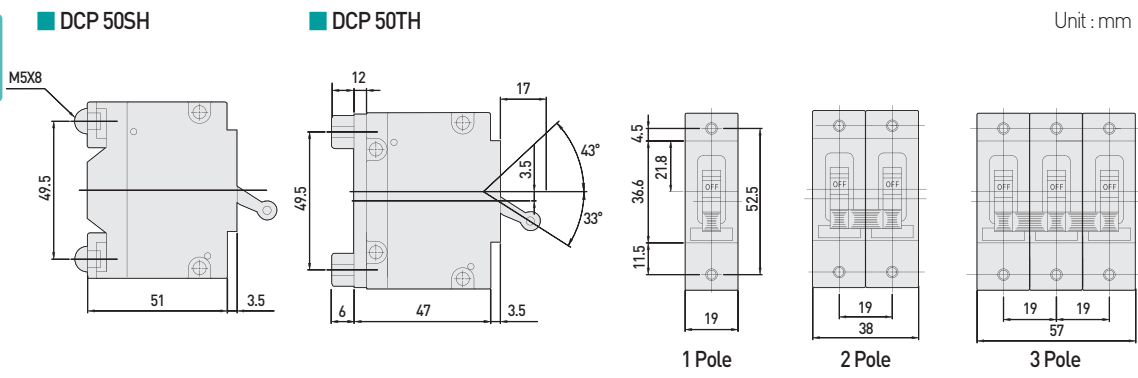
D

Note 1

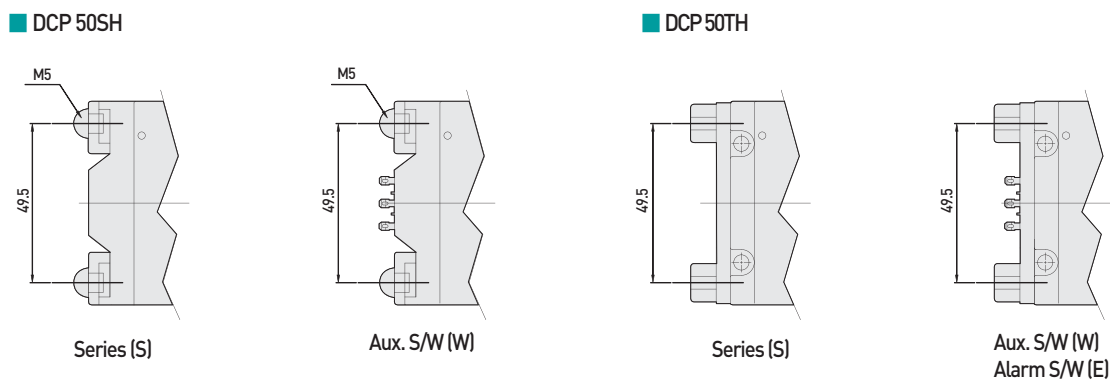
Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

Circuit Protectors

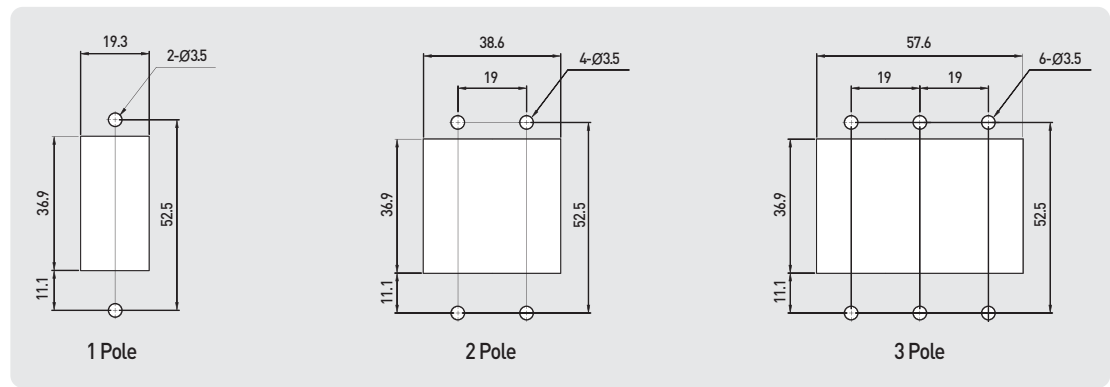
Dimension by No. of poles



Dimension by internal circuits



Mounting hole dimension



Circuit Protectors

Product Specification

Model	DCP 70BH
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	60, 75, 100A
Rated breaking capacity	1.5kA(AC 220V) / 1.0kA(DC 65V) / 1.0kA(AC 380V)
Internal circuits & Accessories	Series, Series with Aux.S/W, Series with Alarm S/W, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC 250V : 3A / DC 65V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed(L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed(M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed(H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous(I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed(L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed(M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed(H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous(I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering Method

DCP

73

B

H

750

A

M

W

Symbol	No. of poles
71	1 Pole
72	2 Pole
73	3 Pole

Symbol	Terminal type
B	Bolt

Symbol	Rated current
600	60A
750	75A
1xx	100A

Symbol	Power used
D	DC
A	AC 50/60Hz

Symbol	Character-istic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

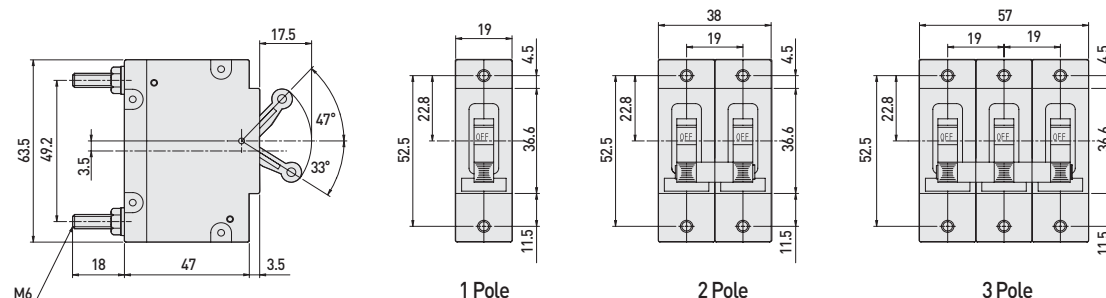
D

Note 1

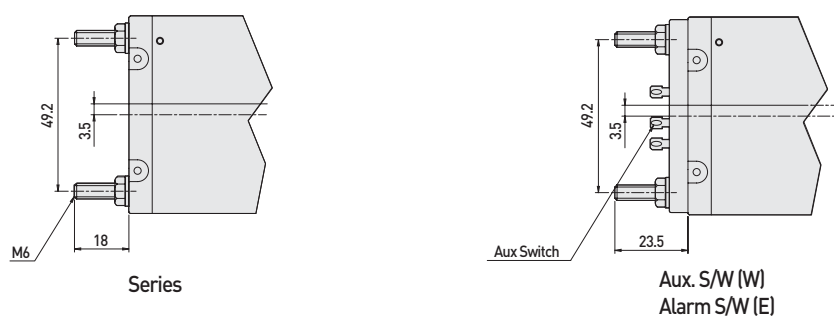
DCP 70BH

Unit : mm

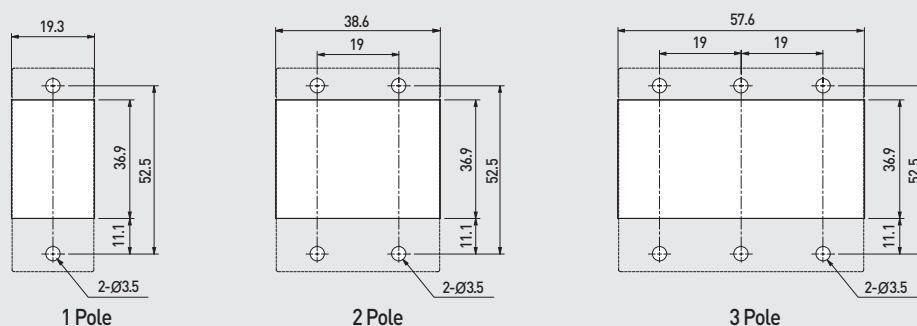
Dimension by No. of poles



Dimension by internal circuits



Mounting hole dimension



DCP 70SH • TH

Product Specification

Model	DCP 70SH, DCP 70TH
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	60, 75A
Rated breaking capacity	1.5kA(AC 220V) / 1.0kA(DC 65V) / 1.0kA(AC 380V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Switch only
Insulation resistance(Ω)	More than 100MΩ at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC 250V : 3A / DC 65V : 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed(L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed(M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed(H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous(I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed(L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed(M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed(H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous(I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering Method

DCP	73	SH	750	A	M	W																																													
<table><tr><th>Symbol</th><th>No. of poles</th></tr><tr><td>71</td><td>1 Pole</td></tr><tr><td>72</td><td>2 Pole</td></tr><tr><td>73</td><td>3 Pole</td></tr></table>	Symbol	No. of poles	71	1 Pole	72	2 Pole	73	3 Pole	<table><tr><th>Symbol</th><th>Terminal type</th></tr><tr><td>SH</td><td>Terminal (Tightening screw M6)</td></tr><tr><td>TH</td><td>Hexagonal M6 Nut</td></tr></table>	Symbol	Terminal type	SH	Terminal (Tightening screw M6)	TH	Hexagonal M6 Nut	<table><tr><th>Symbol</th><th>Rated current</th></tr><tr><td>600</td><td>60A</td></tr><tr><td>750</td><td>75A</td></tr></table>	Symbol	Rated current	600	60A	750	75A	<table><tr><th>Symbol</th><th>Power used</th></tr><tr><td>D</td><td>DC</td></tr><tr><td>A</td><td>AC 50/60Hz</td></tr></table>	Symbol	Power used	D	DC	A	AC 50/60Hz	<table><tr><th>Symbol</th><th>Characteristic</th></tr><tr><td>I</td><td>Instantaneous</td></tr><tr><td>H</td><td>High speed</td></tr><tr><td>M</td><td>Middle speed</td></tr><tr><td>L</td><td>Low speed</td></tr></table>	Symbol	Characteristic	I	Instantaneous	H	High speed	M	Middle speed	L	Low speed	<table><tr><th>Symbol</th><th>Circuit</th></tr><tr><td>S</td><td>Series</td></tr><tr><td>W</td><td>Series with Aux. S/W</td></tr><tr><td>E</td><td>Series with Alarm S/W</td></tr><tr><td>C</td><td>Switch only</td></tr></table>	Symbol	Circuit	S	Series	W	Series with Aux. S/W	E	Series with Alarm S/W	C	Switch only
Symbol	No. of poles																																																		
71	1 Pole																																																		
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73	3 Pole																																																		
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SH	Terminal (Tightening screw M6)																																																		
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A	AC 50/60Hz																																																		
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M	Middle speed																																																		
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C	Switch only																																																		

Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

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D

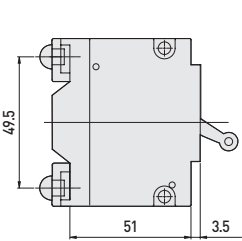
Note 1



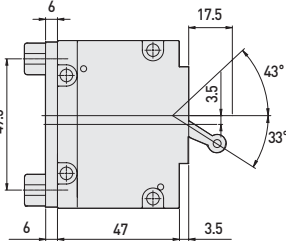
Circuit Protectors

Dimension by
No. of poles

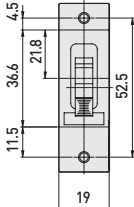
DCP 70SH



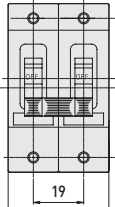
DCP 70TH



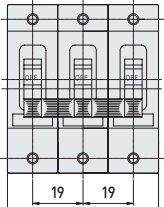
Unit : mm



1 Pole



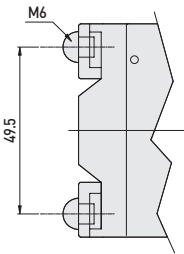
2 Pole



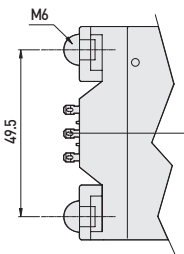
3 Pole

Dimension
by internal
circuits

DCP 70SH

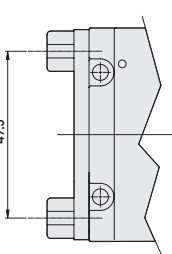


Series (S)

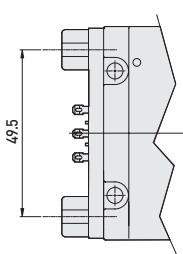


Aux. S/W (W)
Alarm S/W (E)

DCP 70TH

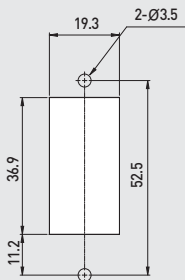


Series (S)

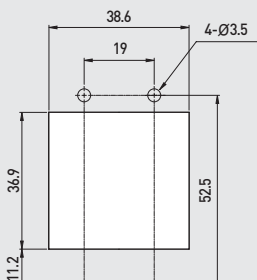


Aux. S/W (W)
Alarm S/W (E)

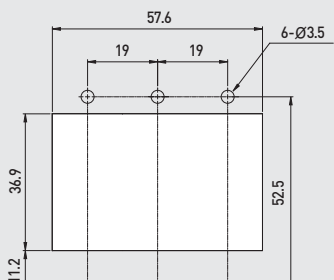
Mounting hole
dimension



1 Pole



2 Pole



3 Pole

Circuit Protectors

Product Specification

Model	DCP 70PH
No. of poles	1Pole, 2Pole, 3Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50, 60, 75, 100
Rated breaking capacity	1.5kA (AC 220V) / 1.0kA (DC 65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC 250V : 3A / DC 65V : 3A

Note : UL certification is only available with 1P, 2P.

Time delay data by characteristics

Unit : sec

Characteristics	100%	125%	200%	400%	600%	800%	1000%
AC	Low speed(L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6
	Middle speed(M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52
	High speed(H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07
	Instantaneous(I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022
Characteristics	100%	150%	200%	400%	600%	800%	1000%
DC	Low speed(L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45
	Middle speed(M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25
	High speed(H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09
	Instantaneous(I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018

Ordering Method

DCP

73

P

H

750

A

M

W

Symbol	No. of poles
71	1 Pole
72	2 Pole
73	3 Pole

Symbol	Terminal type
P	Plug

Symbol	Rated current
600	60A
750	75A
1xx	100A

Symbol	Power used
D	DC
A	AC 50/60Hz

Symbol	Character-istic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

Symbol	Circuit
S	Series
W	Series with Aux. S/W
E	Series with Alarm S/W
C	Switch only
F	Switch with Aux. S/W

Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

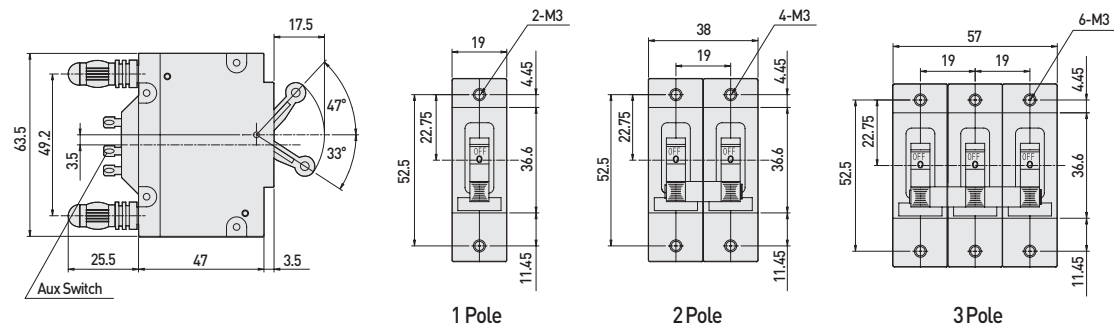
Note 1. If an inrush current protection type is required, add a D on the order sheet (20 times protection of rated current at 8ms of sine wave).

D

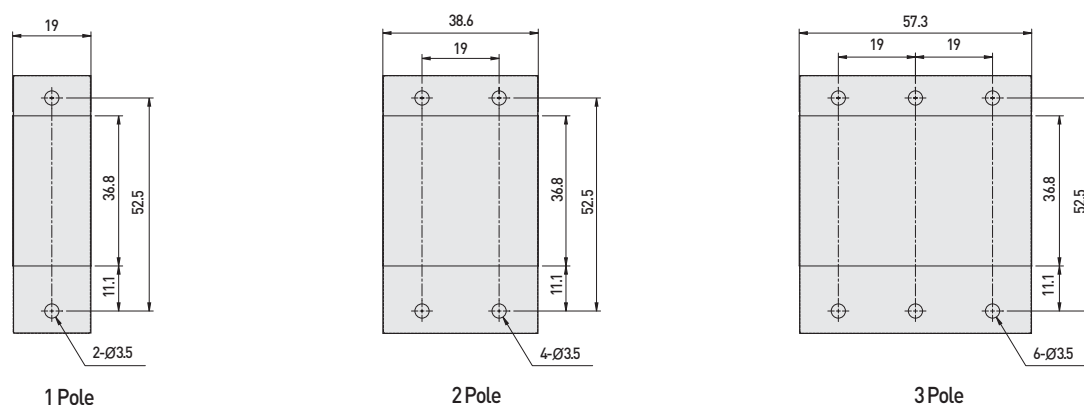
Note 1

DCP 70PH

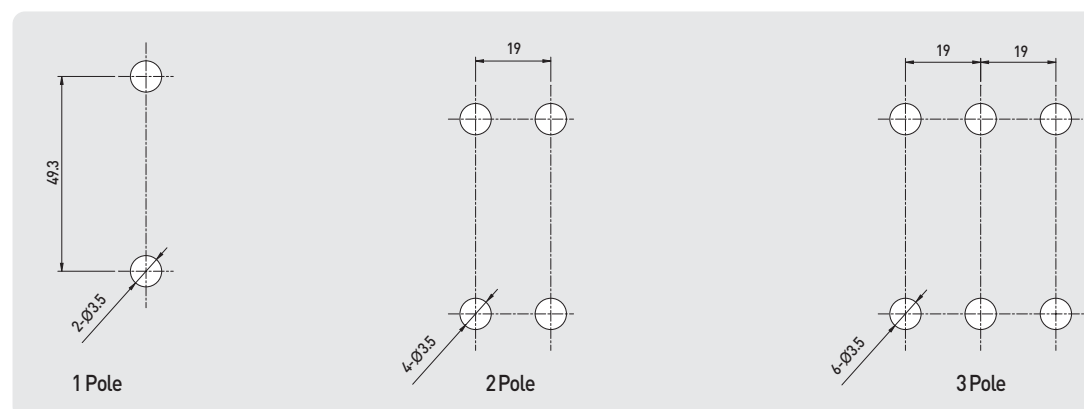
Dimension



Mounting hole dimension



Plug hole processing dimension



CP 100H

Circuit
Protectors

Model	DCP100HS, DCP100HB, DCP100HP, DCP100HC
No. of poles	1 Pole, 2 Pole, 3 Pole
Rated current (A)	0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30, 40, 45, 50, 60, 75, 100A
Rated voltage	220V, DC65V
Rated breaking capacity	5000A (220V), 10000A (DC65V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Series with Alarm S/W, Parallel, Dual Parallel, Relay(current)(voltage), Dual, Switch only, Switch with Aux. S/W
Insulation resistance(Ω)	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 3000V. For 1 minute at AC 50/60Hz 2000V, between relay coil & main circuit of Dual Parallel, Relay, Dual type
Vibration resistance	98ms (MIL-STD-202F-201A) / at rated current (instantaneous type : 80% of rated current)
Shock resistance	490ms (MIL-STD-202F-213B-A) / at rated current (instantaneous type : 81% of rated current)
Life expectancy	More than 10,000 times [Electrical 6,000 times + Mechanical 4,000times] / Switching frequency (6 times per minute)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Permissible relative humidity	45 ~ 85%
Aux. contact capacity	Standard-AC 250V 3A / DC 30V 3A, Gold contact- AC250V 0.1A / DC30V 0.1A

Unit : sec

Time delay
data by
characteristics

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed(L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed(M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed(H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous(I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed(L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed(M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed(H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous(I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

Ordering
Method

In case of 1 pole

Ex) DCP101HS- 50A M S
(1 pole, Side Screw type,
50A, AC, Middle speed,
Series)

DCP

10

H

S

-

Symbol	No. of poles
1	1 Pole
2	2 Pole
3	3 Pole

Symbol	Terminal type
S	Side Screw Note 1
B	Bolt Note 2
P	Plug
C	Clip Note 1

Symbol	Handle type
Void	H - Handle
N	1 - Handle Note 3

[Note 1.](#) Up to 3 poles and 50A available

[Note 2.](#) Below 50A : M5 / 51-100A: M6 screw

[Note 3.](#) In case of 1 handle, it is located at left side with 2 poles, center with 3 poles from front of product

Rated current	Power used	Char-acteristic	Circuit	Operating voltage	Inertia
50	A	M	S	-	-
0.3A~100A	A AC D DC	I Instantaneous H High speed M Middle speed L Low speed	S Series W Series with Aux. S/W Note 5 E Series with Alarm S/W Note 5 P Parallel Note 6 PT Dual Parallel Note 6	RC Relay(current) Note 4 RV Relay(voltage) Note 6 T Dual Note 6 C Switch only F Switch with Aux. S/W	1 DC12V 2 DC24V 4 DC48V 6 DC65V 11 AC110V 22 AC220V

[Note 4.](#) Below 10A available on HB type

[Note 5.](#) In case of gold contact, add a symbol #1 at the end

[Note 6.](#) Below 50A available on HB type

[Note 7.](#) Middle trip function added on Series with Alarm S/W type

[Note 8.](#) Switch only & Relay (voltage) types are not designated.

Series with Aux. S/W type with 1 pole, ex) DCP101HB-50A M W-D (1Pole, Bolt type, 50A, AC, Middle speed, Aux. S/W, Inertia)

Relay type with 1 pole, ex) DCP101HB-50A RV-1 (1Pole, Bolt type, 50A, AC, Relay, DC12V)

Dual type with 1 pole, ex) DCP101HB-50A H T (1Pole, Bolt type, 50A, AC, Middle speed, Dual, DC24V)

Every pole has same trip characteristic and rated current.

ex) DCP103HSN-50D H SSS (3Pole, Screw type, 1 handle, R series phase, S series phase, T series phase, High speed, 50A, DC)

Every pole has same trip characteristic and rated current. (Aux. S/W for R phase installed),

ex) DCP10HS-50D H WSS (3Pole, Screw type, 1 handle, Aux. switch for R phase, S series phase, T series phase, High speed, 50A, DC)

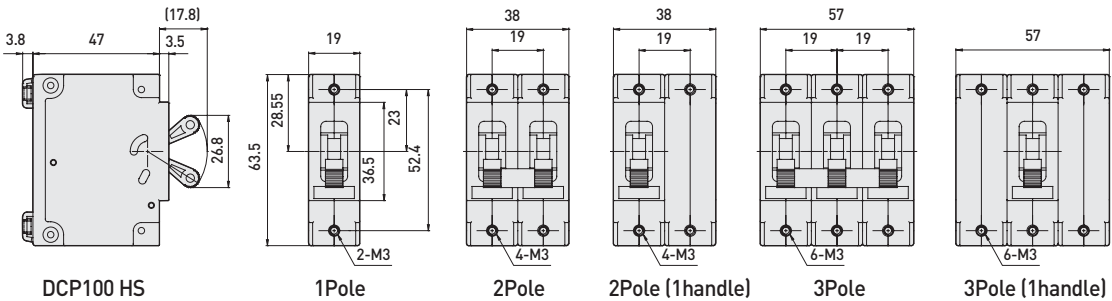
Combination type (Series and Dual), ex) DCP103HB-50A L SWT-22

(3Pole, R series phase, Series with Aux. S/W for S phase, Dual for T phase, Low speed, 50A, AC, AC220V)

Circuit Protectors

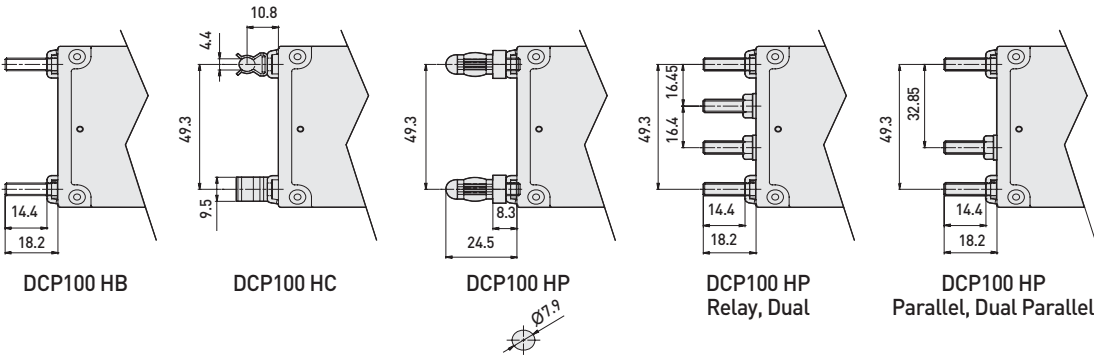
Unit : mm

Dimension by No. of poles

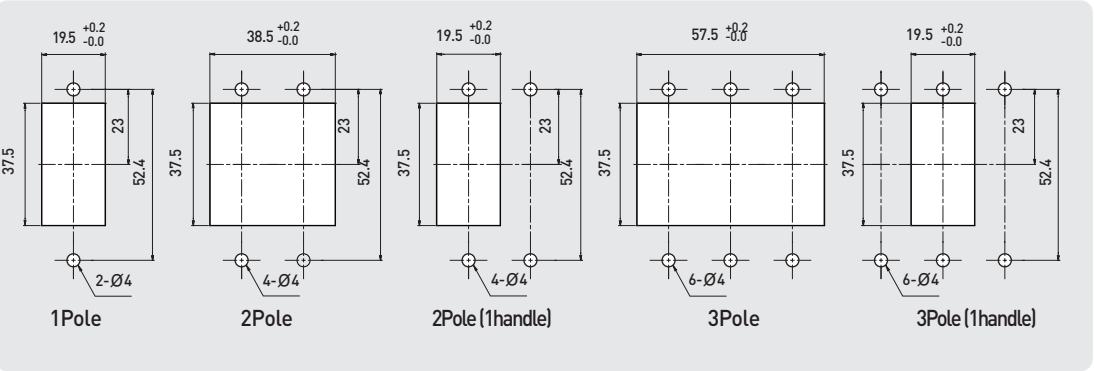


Dimension by terminals

DCP100 HP Terminal Hole processing dimension



Mounting hole Dimension



Accessories diagram

Model	W			E			W + E			W or E+SHT			W+E+SHT
	1P	2P	3P	1P	2P	3P	2P	3P	3P	1P	2P	3P	3P
CP 100H													

○ W (Series with Aux. S/W) ● E (Series with Alarm S/W)
● W (Series with Aux. S/W) or E (Series with Alarm S/W,) ■ SHT(Parallel, Dual Parallel, Relay, Dual)

Circuit Protectors

DCP 101B 101P

Product Specification

Model	DCP 101B, DCP 101P
No. of poles	1Pole
Rated current (A)	60, 75, 100A
Rated breaking capacity	50kA(AC 220V) / 5.0kA(DC 160V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Switch only
Insulation resistance	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC 250V: 3A / DC 65V: 3A

Time delay data by characteristics

Unit : sec

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02

Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

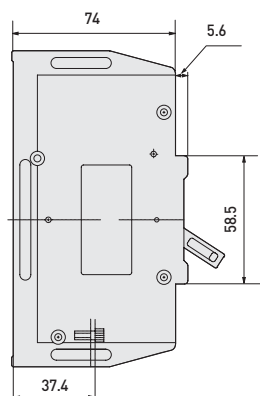
Ordering Method

DCP	101	B	600	D	M	W					
Sym bol	No. of poles	Sym bol	Terminal type	Sym bol	Rated current	Sym bol	Power used	Sym bol	Trip Characteristic	Sym bol	Circuit
101	1 Pole	B	Bolt	600	60A	D	DC	I	Instantaneous	S	Series
		P	Screw	750	75A	A	AC 50/60Hz	H	High speed	W	Series with Aux. S/W
				1xx	100A			M	Middle speed	C	Switch only
								L	Low speed		

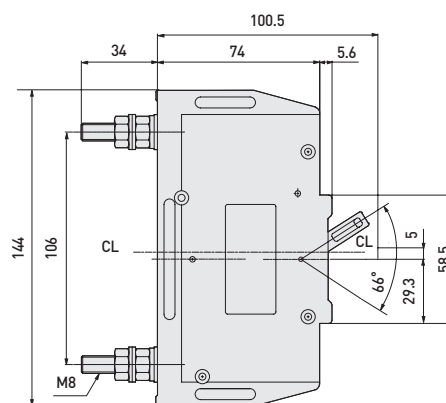


**Dimension by
No. of poles**

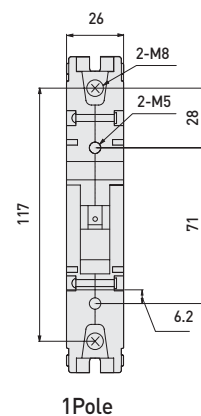
■ DCP 101P



■ DCP 101B

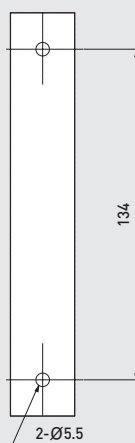


Unit : mm

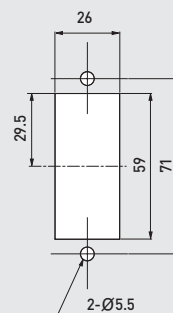


**Mounting hole
dimension**

■ DCP 101P



■ DCP 101B



Product Specification

Model	DCP 250B
No. of poles	1Pole, 2Pole
Rated current (A)	100, 125, 150, 175, 200, 225, 250
Rated breaking capacity	25kA(DC 65V) / 10kA(DC 160V)
Internal circuits & Accessories	Series, Series with Aux. S/W, Switch only
Insulation resistance	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1500V
Vibration resistance	Double amplitude 1mm 10~100 Hz (About 10G)
Life expectancy	More than 10,000 times (6,000 times of ON-OFF 6 times per minute at rated current / No current 4,000 times)
Overcurrent trip characteristics	Instantaneous (I), High speed (H), Middle speed (M), Low speed (L)
Ambient temperature	-40°C ~ +85°C (with rated current ON)
Aux. contact capacity	AC 250V: 3A / DC 65V: 3A

Unit : mm

Time delay data by characteristics

Characteristics		100%	125%	200%	400%	600%	800%	1000%
AC	Low speed (L)	NO Trip	80-500	20-100	0.07-19	0.007-4	0.006-0.6	0.006-0.17
	Middle speed (M)	NO Trip	10-200	2.2-25	0.018-4.4	0.006-1.7	0.006-0.52	0.006-0.16
	High speed (H)	NO Trip	0.5-20	0.15-2.7	0.013-0.5	0.006-0.17	0.006-0.07	0.006-0.03
	Instantaneous (I)	NO Trip	0.02-0.4	0.007-0.12	0.006-0.037	0.006-0.026	0.006-0.022	0.006-0.02
Characteristics		100%	150%	200%	400%	600%	800%	1000%
DC	Low speed (L)	NO Trip	50-300	17-70	0.2-16	0.008-4.8	0.006-0.45	0.006-0.05
	Middle speed (M)	NO Trip	4-70	1.5-15	0.06-2.8	0.006-0.8	0.004-0.25	0.004-0.06
	High speed (H)	NO Trip	0.5-25	0.15-2.7	0.012-0.5	0.005-0.22	0.004-0.09	0.004-0.03
	Instantaneous (I)	NO Trip	0.009-0.3	0.007-0.15	0.005-0.035	0.005-0.02	0.004-0.018	0.004-0.015

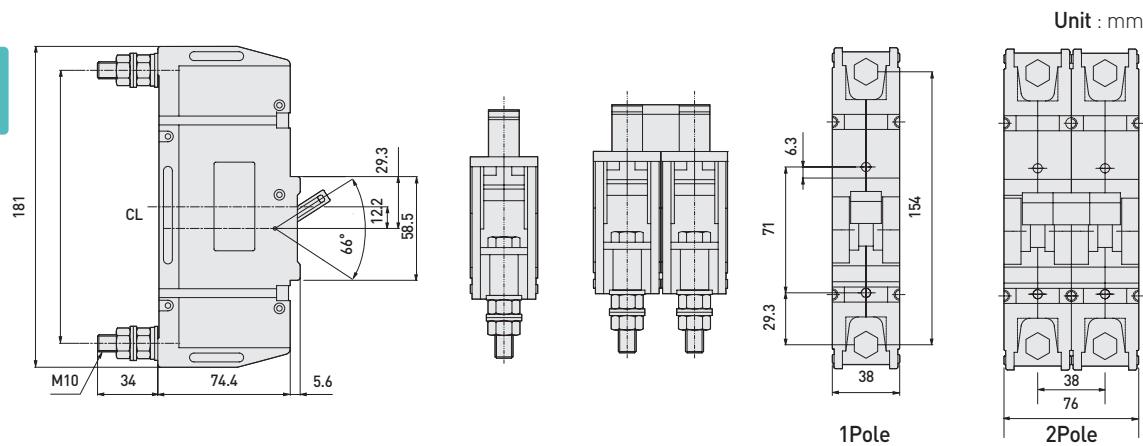
Ordering Method

DCP		251		B		150		D		M		W	
Sym bol	No. of poles	Sym bol	Terminal type	Sym bol	Rated current	Sym bol	Power used	Sym bol	Char-acteristic	Sym bol	Circuit	Sym bol	Circuit
251	1 Pole	B	Bolt	100	100A	D	DC	I	Instantaneous	S	Series		
252	2 Pole			125	125A			H	High speed	W	Series with Aux. S/W		
				150	150A			M	Middle speed	C	Switch only		
				175	175A			L	Low speed				
				200	200A								
				225	225A								
				250	250A								

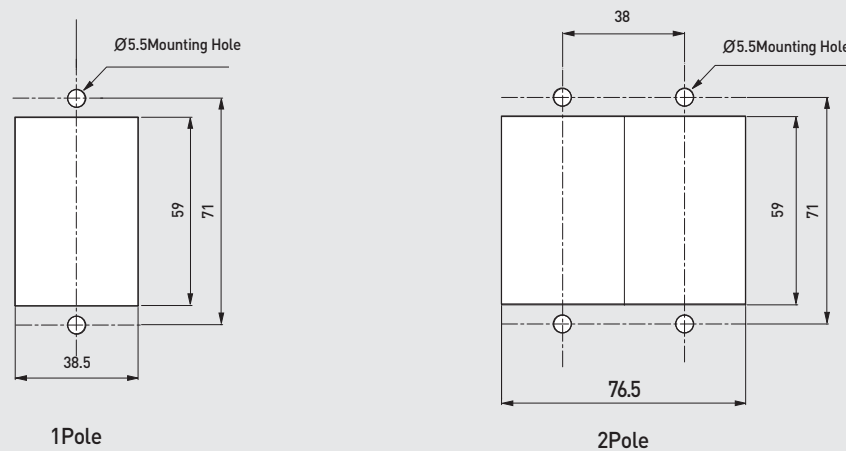
Circuit Protectors

DCP 250B

Dimension by
No. of poles



Mounting hole
dimension



Circuit Protectors

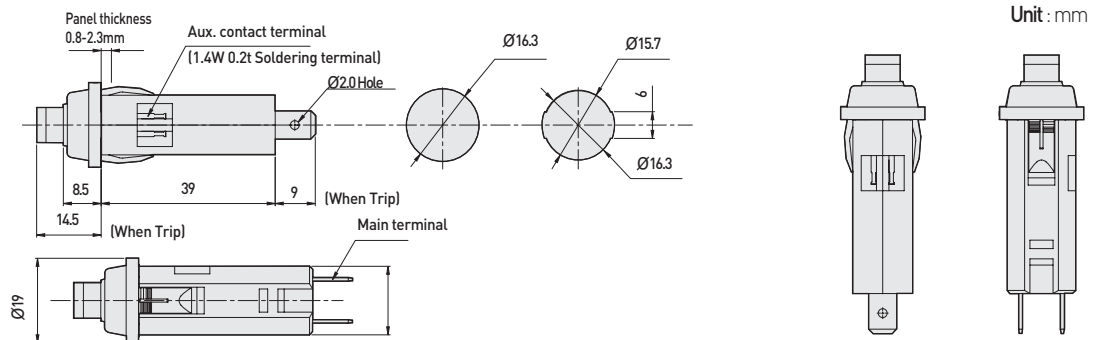
Product Specification

Model	DCP 21HI
Trip method	Bi-metal trip
No. of poles	1Pole
Maximum voltage used	DC 32V
Trip time	Does not trip up to the rated current; trips in 1 hour when the power is applied at 135% of the rated current
Rated current (A)	0.3, 0.5, 1, 2, 3, 5, 8, 10, 15
Rated breaking capacity	0.3-5A: rated current x 6 times / 8, 10, 15: rated current x 10 times
Internal circuits & Accessories	Series, Series with Aux. S/W
Insulation resistance	More than 100M Ω at DC 500V Megger
Insulation withstand voltage (V)	For 1 minute at AC 50/60Hz 1,500V
Life expectancy	Overcurrent durability: more than 100 times (tripping at 200% of the rated current), mechanical durability of additional manual OFF type: more than 240 times
Reset time	Longer than 60 seconds (Based on a 25°C ambient temperature)
Ambient temperature	-40°C ~ +60°C
Aux. contact capacity	1a (contact output) DC 32V, 0.05A

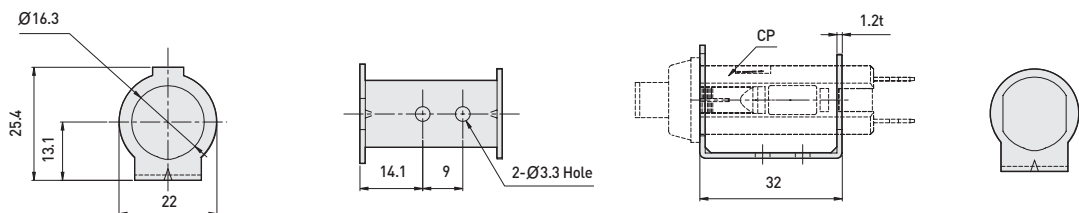
Ordering Method

DCP	21	H	I	003	H	B	SW						
Sym bol	No. of poles	Sym bol	Terminal type	Sym bol	Rated current	Sym bol	Rated current	Sym bol	Mounting method	Sym bol	Cover color	Sym bol	Circuit
21	1 Pole	H	Hole	003	0.3A	040	4A	H	for hold	B	Black	S	Standard
				005	0.5A	050	5A	D	for DIN rail	R	Red	SW	Standard Aux. contact
				007	0.75A	070	7A	P	for panel	G	Green	P	Manual ON/OFF
				010	1A	100	10A			Y	Yellow	PW	Manual ON/OFF Aux. contact
				020	2A	150	15A			S	Blue		
				030	3A					W	White		

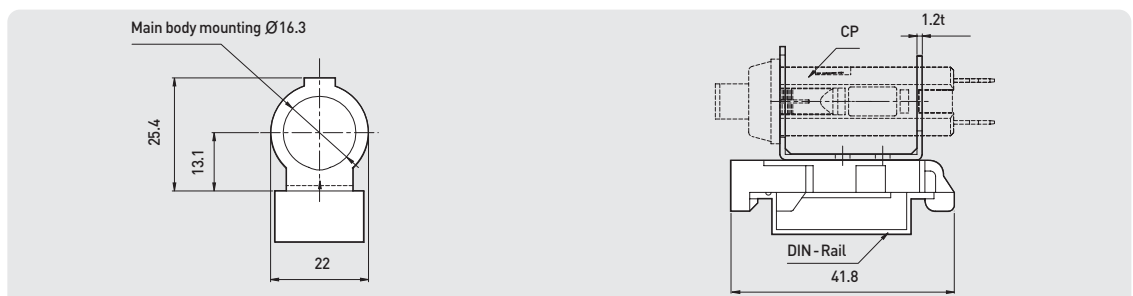
Dimension



Dimension of panel



Dimension for DIN-rail mounting



Circuit Protectors / Technical Data

Circuit Methods and Aux. Switches

Types of Circuit Methods & Aux. Switches

Symbol	Type	Internal circuit	Circuit diagram	Function & Use												
S	Series type			• Most common circuit • In case of overcurrent or short-circuit current, contact point is off, breaking the circuit.												
W	Series type with auxiliary switch			• Aux. switch operates in conjunction with the handle movement. <table><tr><th>Handle Position</th><th>NO Contact</th><th>NC Contact</th></tr><tr><td>ON</td><td>Closed</td><td>Open</td></tr><tr><td>TRIP</td><td>Open</td><td>Closed</td></tr><tr><td>OFF</td><td>Open</td><td>Closed</td></tr></table>	Handle Position	NO Contact	NC Contact	ON	Closed	Open	TRIP	Open	Closed	OFF	Open	Closed
Handle Position	NO Contact	NC Contact														
ON	Closed	Open														
TRIP	Open	Closed														
OFF	Open	Closed														
E	Series type with alarm switch			• Alarm switch does not operate in conjunction with the handle movement but operates only for overcurrent trip. <table><tr><th>Handle Position</th><th>NO Contact</th><th>NC Contact</th></tr><tr><td>ON</td><td>Open</td><td>Closed</td></tr><tr><td>TRIP</td><td>Closed</td><td>Open</td></tr><tr><td>OFF</td><td>Open</td><td>Closed</td></tr></table>	Handle Position	NO Contact	NC Contact	ON	Open	Closed	TRIP	Closed	Open	OFF	Open	Closed
Handle Position	NO Contact	NC Contact														
ON	Open	Closed														
TRIP	Closed	Open														
OFF	Open	Closed														
C	Switch type			• Only switch function without overcurrent breaking function.												
P	Parallel type			• Main contact point and the current coil are connected in parallel. • Load A and B are broken at the same time by sensing Load A.												
R	Relay type			• Applying time of the operating voltage that flows on voltage-operated electronic coil is within 2 sec. • It breaks the circuit of Load A by detecting overcurrent from Load B.												
F	Switch type with auxiliary switch			• Aux S/W operates in conjunction with the handle movement. <table><tr><th>Handle Position</th><th>NO Contact</th><th>NC Contact</th></tr><tr><td>ON</td><td>Closed</td><td>Open</td></tr><tr><td>OFF</td><td>Open</td><td>Closed</td></tr></table>	Handle Position	NO Contact	NC Contact	ON	Closed	Open	OFF	Open	Closed			
Handle Position	NO Contact	NC Contact														
ON	Closed	Open														
OFF	Open	Closed														

Circuit Protector

SMART CP



Order method

DCP

DAERYUK
Circuit
Protector

31

Symbol	No. of poles
31	1P
32	2P
33	3P

DN

Symbol	Mounting type
DN	Din-Rail

050

Symbol	Rated current
001	0.1A
003	0.3A
005	0.5A
007	0.75A
010	1A
020	2A
030	3A
040	4A
050	5A
070	7A
100	10A
150	15A
200	20A
250	25A
300	30A

A

Symbol	Power used
A	AC/DC common use

M

Symbol	Characteristic
I	Instantaneous
H	High speed
M	Middle speed
L	Low speed

S

Symbol	Circuit
S	Series
W	Series with Aux. SW
E	Series with Alarm SW
R	Relay

D

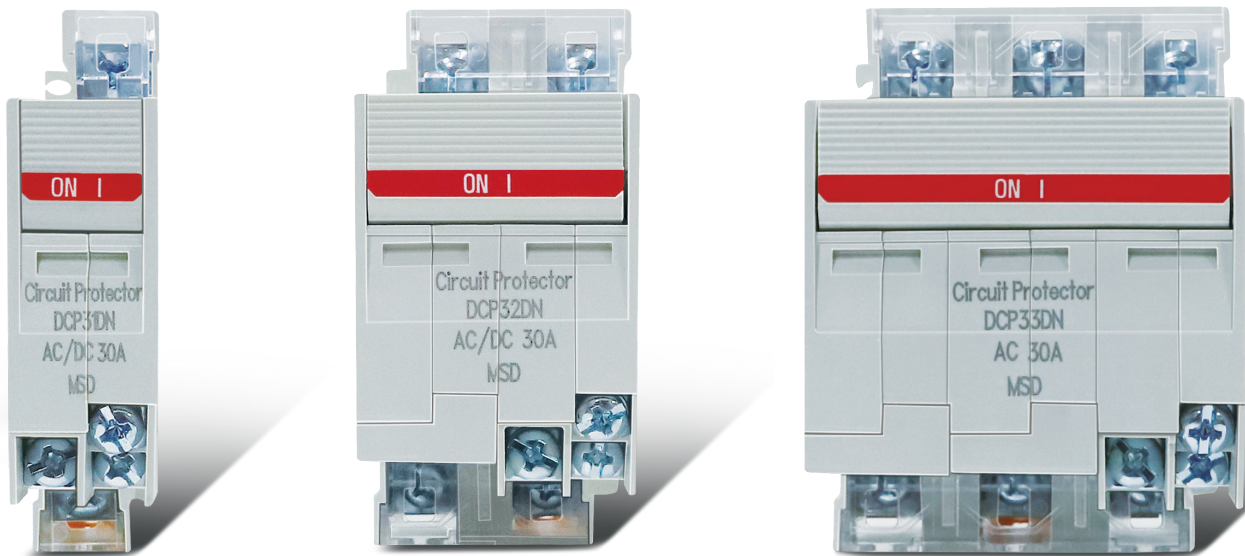
Symbol	Inertial delay
D	Inertial delay

24V

Symbol	Operating voltage
24V	24V
48V	48V

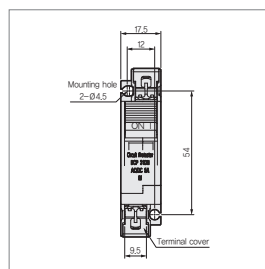
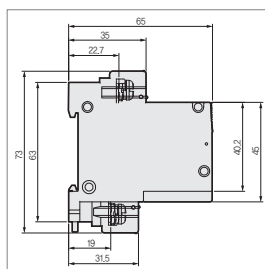


Appearance

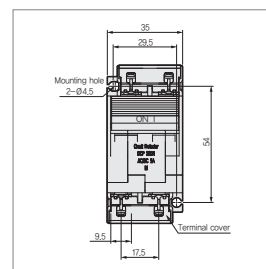


Dimension

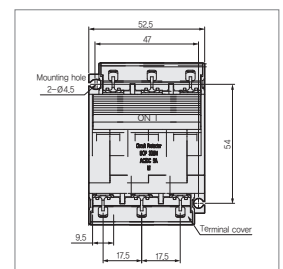
Series



1P

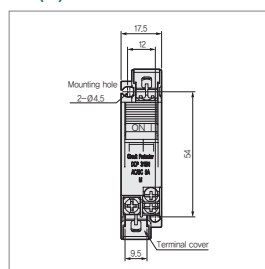
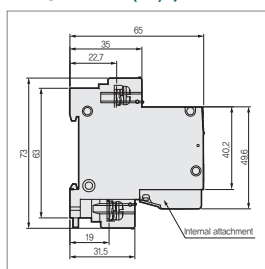


2P

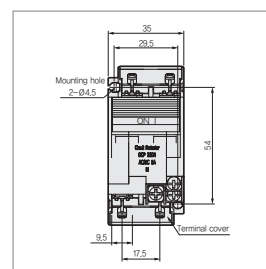


3P

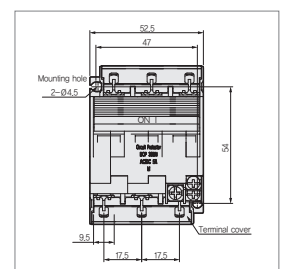
Aux. switch(W) / Alarm switch(E)



1P

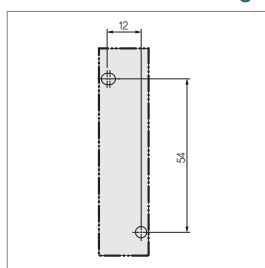


2P

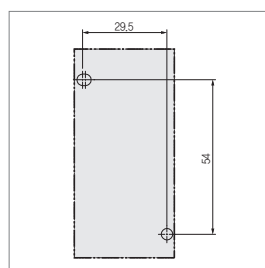


3P

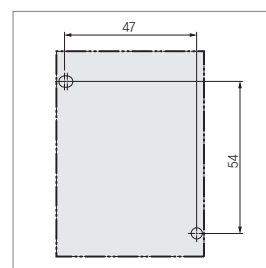
Dimension of mounting hole



1P



2P



3P



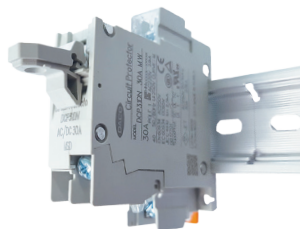
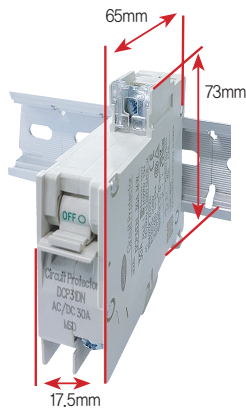
(DCP30DN Series)

- ▶ Compact design, high performance **Circuit Protector**
- ▶ Protect control circuit devices (semiconductor, LCD equipment)
- ▶ AC/DC common use
- ▶ Certificate Status (CE,UL,CCC,PSE)
- ▶ Compliant to RoHS
- ▶ Handle Lock – Prevent electric shock
- ▶ Trip indication – Check for trip by over current
- ▶ Inertial Delay – Prevent trip by inrush current



Highlights

- **Compact design**
17.5mm width Compact design
Saving installation space
- **Implement various circuit systems**
Customize the options
(Aux. switch, Alarm switch, Relay)
- **Handle Lock**
Prevent electric shock
- **Apply transparent cover (Compliant to IP20)**
Easy to check maintenance and terminal condition by applying retractable terminal cover
- **Trip indication**
All products are equipped with the basic trip indication, so that it is possible to check for trip by over current



Specification

Model	DCP30DN		
No. of Poles	1Pole	2Pole	3Pole
Rated Current(A)	0.1, 0.3, 0.5, 0.75, 1, 2, 3, 4, 5, 7, 10, 15, 20, 25, 30		
Rated Breaking Capacity(kA)	2.5kA (AC250V/DC65V)	2.5kA (AC250V/DC125V)	2.5kA (AC250V)
Accessories	Series, Aux. switch, Alarm switch, Relay(voltage trip)		
Rated Insulation Voltage	DC500V over 100MΩ		
Impulse Withstand Voltage	AC50/60Hz 1,500V 1 minute		
Vibration resistant	Double amplitude 1mm 10~100Hz(about 10G)		
Performance	10,000 times (Electrical 6,000 / Mechanical life 4,000)		
Trip characteristics	Instantaneous(I), High speed(H), Middle speed(M), Low speed(L)		
Trip type	Hydraulic Magnetic (ODP)		
Ambient temperature range	-10℃ ~ + 60℃		
Load resistance	AC125V 0.1~3A / DC30V 0.1~2A		
Terminal size	Main terminal: below 25A M4 / over 25A M5, Aux. terminal: M3.5		
Mounting type	IEC35mm Rail / M4		
Standard	IEC60934, GB17701, KS C IEC60934, UL1077		



CE(EU), UL(U.S.A), CCC(China), PSE(Japan)