

Product Selection

Product model	Frame current	Setting current	Special inspection
CDP6	32	P16	



32: 32A 80: 80A	P16: 0.1-0.16A ... 32: 24-32A P means decimal point	Default: RoHS compliant Inspection standard
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Thermal trip	Magnetic trip	400/415V, 50/60Hz, Class AC-3	Matched operation recommended	Order code
Setting current range	Current Id	Standard rated power of three-phase motor	Contactor model	
0.1-0.16A	1.5A	-	CDC6i-09	CDP6 32 P16
1.06-0.25A	2.4A	0.06KW	CDC6i-09	CDP6 32 P25
0.25-0.4A	5A	0.09KW	CDC6i-09	CDP6 32 P4
0.4-0.63A	8A	0.12KW	CDC6i-09	CDP6 32 P63
0.63-1A	13A	0.25KW	CDC6i-09	CDP6 32 1
1-1.6A	22.5A	0.37KW	CDC6i-09	CDP6 32 1P6
1.6-2.5A	33.5A	0.75KW	CDC6i-09	CDP6 32 2P5
2.5-4A	51A	1.5KW	CDC6i-09	CDP6 32 4
4-6.3A	78A	2.2KW	CDC6i-09	CDP6 32 6P3
6-10A	138A	4KW	CDC6i-09	CDP6 32 10
9-14A	170A	5.5KW	CDC6i-12	CDP6 32 14
13-18A	223A	7.5KW	CDC6i-18	CDP6 32 18
17-23A	327A	9KW	CDC6i-25	CDP6 32 23
20-25A	327A	11KW	CDC6i-25	CDP6 32 25
24-32A	416A	15KW	CDC6i-32	CDP6 32 32
24-40A	480A	18.5KW	CDC6i-40	CDP6 80 40
24-63A	756A	30KW	CDC6i-65	CDP6 80 63
24-80A	960A	40KW	CDC6i-80	CDP6 80 80

Technical Parameters

Operation mode	Button type
Shell frame current	32A, 80A
Impulse withstand voltage	6000V
Rated operating voltage	690V
Rated insulation voltage	690V
Rated operating frequency	50/60Hz
Trip grade	10A

Tightening torque	1.7 N·m
Mechanical durability (ON/OFF)	110000
Electrical durability AC-3 400V	110000
Overload protection category	Thermal overload, phase open
Short circuit protection	Yes
Disconnection function	Yes
Temperature compensation function	Yes

■ Breaking capacity

Setting current	Ue:230/240V		Ue:400/415V		Ue:500V		Ue:690V	
	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
0.1-0.16A	100	100	100	100	100	100	100	100
0.16-0.25A	100	100	100	100	100	100	100	100
0.25-0.4A	100	100	100	100	100	100	100	100
0.4-0.63A	100	100	100	100	100	100	100	100
0.63-1A	100	100	100	100	100	100	100	100
1-1.6A	100	100	100	100	100	100	100	100
1.6-2.5A	100	100	100	100	100	100	3	2.25
2.5-4A	100	100	100	100	100	100	3	2.25
4-6.3A	100	100	100	100	50	50	3	2.25
6-10A	100	100	100	100	10	10	3	2.25
9-14A	100	100	15	7.5	6	4.5	3	2.25
13-18A	100	100	15	7.5	6	4.5	3	2.25
17-23A	50	50	15	6	4	3	3	2.25
20-25A	50	50	15	6	4	3	3	2.25
24-32A	50	50	10	5	4	3	3	2.25
25-40A			20	10			3	2
40-63A			20	10			3	2
56-80A			10	5			1.5	1.5

■ Fuse selection gL/Gg (when the expected short circuit current is greater than the rated limit short circuit breaking capacity Icu, a backup fuse is required)

Setting current	Ue:230/240V	Ue:400/415V	Ue:690V	Setting current	Ue:230/240V	Ue:400/415V	Ue:690V
0.1-0.16A	-	-	-	6-10A	-	-	40
0.16-0.25A	-	-	-	9-14A	-	80	50
0.25-0.4A	-	-	-	13-18A	-	80	50
0.4-0.63A	-	-	-	17-23A	100	100	50
0.63-1A	-	-	-	20-25A	100	100	50
1-1.6A	-	-	-	24-32A	100	100	50
1.6-2.5A	-	-	20	25-40A		315	200
2.5-4A	-	-	32	40-63A		400	250
4-6.3A	-	-	40	56-80A		400	250

Note: "-" indicates that no fuse is required

New 6
SERIES

■ Standard rated power of three-phase motor, 50/60Hz, Class AC-3

Setting current	Ue:230/240V	Ue:400/415V	Ue:690V	Setting current	Ue:230/240V	Ue:400/415V	Ue:690V
0.1-0.16A	-	-	-	6-10A	2.2KW	4KW	7.5KW
0.16-0.25A	-	0.06KW	-	9-14A	3KW	5.5KW	9KW
0.25-0.4A	-	0.09KW	-	13-18A	4KW	7.5KW	11KW
0.4-0.63A	-	0.12KW	0.37KW	17-23A	5.5KW	9KW	15KW
0.63-1A	-	0.25KW	0.55KW	20-25A	5.5KW	11KW	18.5KW
1-1.6A	-	0.37KW	1.1KW	24-32A	7.5KW	15KW	22KW
1.6-2.5A	0.37KW	0.75KW	1.5KW	25-40A		18.5KW	33KW
2.5-4A	0.75KW	1.5KW	3KW	40-63A		30KW	55KW
4-6.3A	1.1KW	2.2KW	4KW	56-80A		40KW	63KW

Accessories

■ Operating characteristics

CDP6-32

No.	Setting current multiple		Operation time	Starting condition	Ambient temperature
Operating characteristics when all phase loads are balanced					
1	1.05		No operation within 2 hours	Cold state	+20℃
2	1.2		Operation within 2 hours	Hot state (after 1# test)	+20℃
3	1.5		Operation within 2 hours	Hot state (after 1# test)	+20℃
4	7.2		Operation within 2-10 seconds	Cold state	+20℃
Operating characteristics of each phase load is unbalanced (phase open)					
	Any two phases	Third phase			
1	1.0	0.9	No operation within 2 hours	Cold state	+20℃
2	1.15	0	Operation within 2 hours	Hot state (after 1# test)	+20℃
Temperature compensated performance					
1	1.0		No operation within 2 hours	Cold state	+40℃
2	1.2		Operation within 2 hours	Hot state (after 1# test)	+40℃
3	1.05		No operation within 2 hours	Cold state	-5℃
4	1.3		Operation within 2 hours	Hot state (after 3# test)	-5℃

CDP6-80

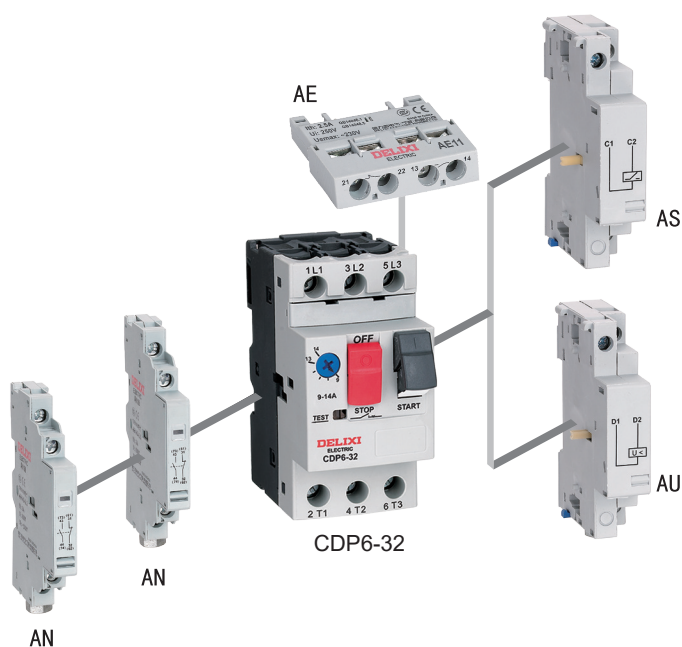
Table 1 Operating characteristics of the motor circuit breaker when all phase loads are balanced

No.	Circuit breaker for power distribution			Ambient temperature
	Setting current multiple	Specified time	Start state	
1	1.05I _n	No trip ≥2h	Start from the cold state	+20°C ±2°C
2	1.3I _n	Trip <2h	Continued from Item 1	
3	10I _n	Trip <0.2s	Start from the cold state	Any appropriate temperature

Table 2 Operating characteristics of the motor circuit breaker when all phase loads are balanced

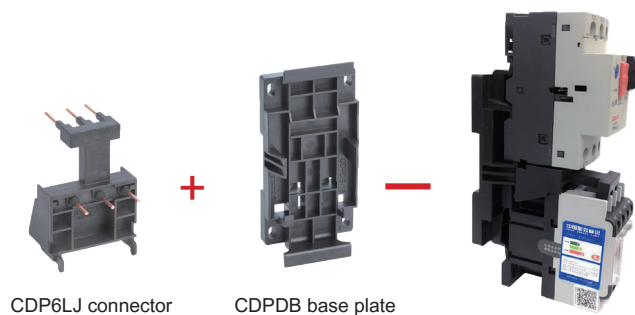
No.	Circuit breaker for motor protection			Ambient temperature
	Setting current multiple	Specified time	Start state	
1	1.05I _n	No trip ≥2h	Start from the cold state	+20°C ±2°C
2	1.2I _n	Trip <2h	Continued from Item 1	
3	1.5I _n	Trip ≤3 minutes	Start when the double setting current reaches the thermal balance	
4	7.2I _n	2~10s trip	Start from the cold state	Any appropriate temperature
5	9.6I _n	0.2s non-trip	Start from the cold state	
6	14.4I _n	0.2s trip	Start from the cold state	

■ Accessory installation diagram



Note: Only accessories are provided rather than combination products

Model	Name	Installation location	Max. installed quantity
AE	Aux. contact (front-mounted)	Right above	1
AN	Aux. contact (side-mounted)	Left side	2
AU	Undervoltage release	Right side	1
AS	Shunt release	Right side	1
CDP6LJ	Connector	Below	1
CDPDB	Base plate	Bottom	1

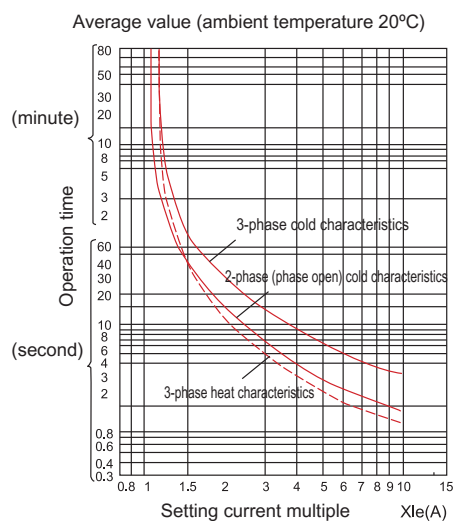


CDP6LJ connector

CDPDB base plate

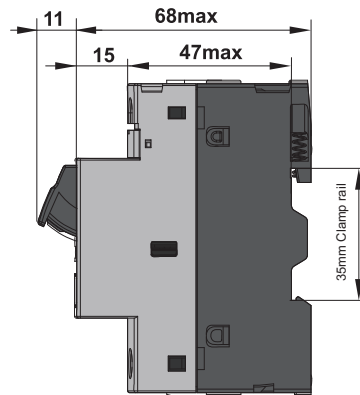
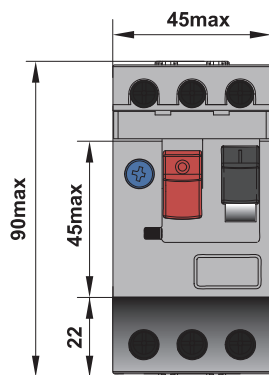
Note: CDP6-80 accessories have only 1NO+1NC, 2NO auxiliary contacts, with order codes CDP680F11, CDP680F20

■ Trip curve diagram

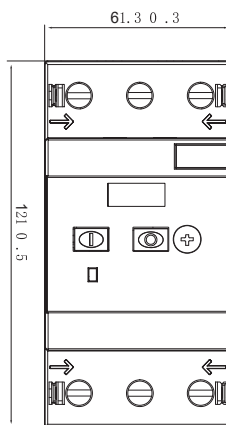


Outline and Installation Dimensions

CDP6-32

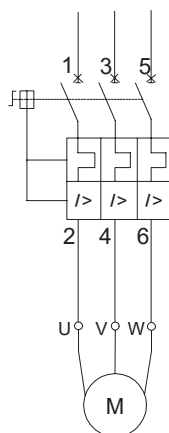


CDP6-80



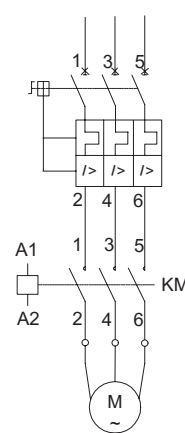
Wiring diagram

CDP6 directly carries load



Suitable for load types with infrequent on/off operation

CDP6 works with CDC6i to carry load



Suitable for load types with frequent on/off operation