

HDP6 Motor Circuit Breaker

Standard: IEC 60947-1, IEC 60947-2, IEC 60947-4-1



Order Information

Product Name	Frame Current	Setting Current
HDP6	32	P16
	↓	↓
	32:32A	P16:0.1-0.16A 32:24-32A P means decimal point



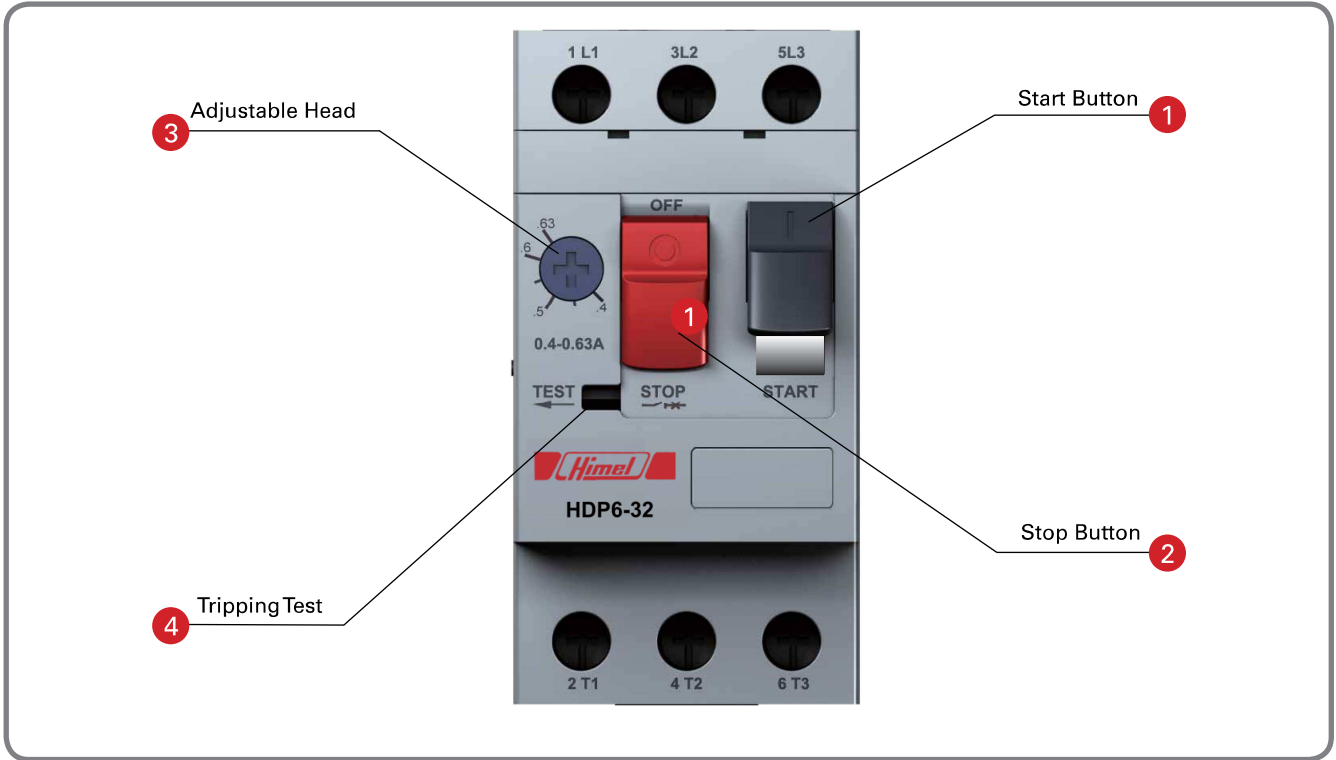
Thermal Release	Magnetic Release	400/415V,50/60Hz,AC-3	Recommended	Reference
Setting Current	Current Id	Rated Operating Power	Contactor	
0.1-0.16A	1.5A	-	HDC6-0911	HDP632P16
0.16-0.25A	2.4A	0.06KW	HDC6-0911	HDP632P25
0.25-0.4A	5A	0.09KW	HDC6-0911	HDP632P4
0.4-0.63A	8A	0.12KW	HDC6-0911	HDP632P63
0.63-1A	13A	0.25KW	HDC6-0911	HDP6321
1-1.6A	22.5A	0.37KW	HDC6-0911	HDP6321P6
1.6-2.5A	33.5A	0.75KW	HDC6-0911	HDP6322P5
2.5-4A	51A	1.5KW	HDC6-0911	HDP6324
4-6.3A	78A	2.2KW	HDC6-0911	HDP6326P3
6-10A	138A	4KW	HDC6-0911	HDP63210
9-14A	170A	5.5KW	HDC6-1211	HDP63214
13-18A	223A	7.5KW	HDC6-1811	HDP63218
17-23A	327A	9KW	HDC6-2511	HDP63223
20-25A	327A	11KW	HDC6-2511	HDP63225
24-32A	416A	15KW	HDC6-3211	HDP63232

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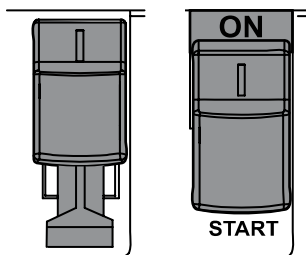
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Introduction for Functions

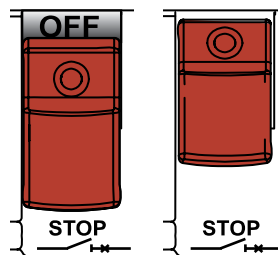


1 Start Button



- Press to start HDP6
- After downward pull-out, lock the start button to stop the work

2 Stop Button



- Press to stop HDP6

3 Adjustable Head



- Set the thermal trip current

4 Tripping Test



- Can simulate the tripping action, test product performance

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Main Technical Parameter

Operation mode	Button operated
Frame current	32A
Rated impulse withstand voltage	6000V
Rated operational voltage	690V
Rated isolation voltage	690V
Rated operational frequency	50/60Hz
Trip class	10A
Fastening torque	1.7N • m
Mechanical durabilities	100000
Electrical durabilities AC-3 400V	100000
Overload protection category	Phase failure, thermal overload
Short circuit protection	Yes
Isolation function	Yes
Temperature compensation function	Yes

Breaking Capacity

Setting Current	Ue:230/240V		Ue:400/415V		Ue:440V		Ue:500V		Ue:690V	
	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics	Icu	Ics
0.1-0.16A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
0.16-0.25A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
0.25-0.4A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
0.4-0.63A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
0.63-1A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
1-1.6A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA
1.6-2.5A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	3kA	2.25kA
2.5-4A	100kA	100kA	100kA	100kA	100kA	100kA	100kA	100kA	3kA	2.25kA
4-6.3A	100kA	100kA	100kA	100kA	50kA	50kA	50kA	50kA	3kA	2.25kA
6-10A	100kA	100kA	100kA	100kA	15kA	15kA	10kA	10kA	3kA	2.25kA
9-14A	100kA	100kA	15kA	7.5kA	8kA	4kA	6kA	4.5kA	3kA	2.25kA
13-18A	100kA	100kA	15kA	7.5kA	8kA	4kA	6kA	4.5kA	3kA	2.25kA
17-23A	50kA	50kA	15kA	6kA	6kA	3kA	4kA	3kA	3kA	2.25kA
20-25A	50kA	50kA	15kA	6kA	6kA	3kA	4kA	3kA	3kA	2.25kA
24-32A	50kA	50kA	10kA	5kA	6kA	3kA	4kA	3kA	3kA	2.25kA

Remark: Icu Rated Ultimate Short-circuit Breaking Capacity
Ics Rated Service Short-circuit Breaking Capacity

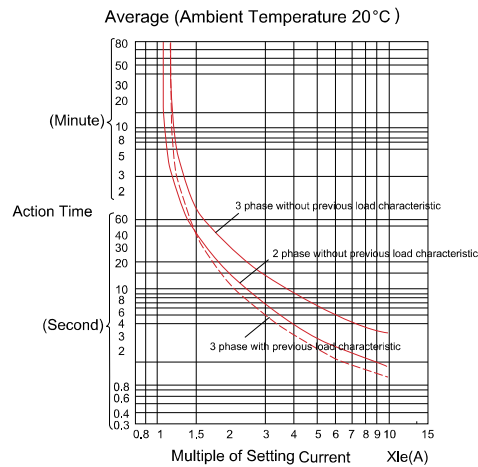
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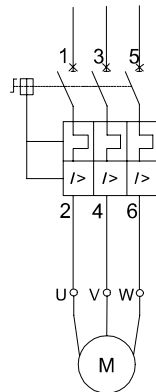
Operating Characteristics

No.	Multiple of Setting Current	Trip time	Starting Conditions	Ambient Temperature
Tripping Characteristics for Phase Load Balance				
1	1.05	Non-tripping within 2h	Without previous load	+20°C
2	1.2	Tripping within 2h	Immediately after No.1 test	+20°C
3	1.5	Tripping within 2m	Immediately after No.1 test	+20°C
4	7.2	Tripping within 2s $T_p \le 10s$	Without previous load	+20°C
Tripping Characteristics for Phase Load Unbalance (Phase Failure)				
	Any 2-Phase	3 rd Phase		
1	1.0	0.9	Non-tripping within 2h	Without previous load
2	1.15	0	Tripping within 2h	Immediately after No.1 test
The temperature compensation performance				
1	1.0	Non-tripping within 2h	Without previous load	+40°C
2	1.2	Tripping within 2h	Immediately after No.1 test	+40°C
3	1.05	Non-tripping within 2h	Without previous load	-5°C
4	1.3	Tripping within 2h	Immediately after No.3 test	-5°C



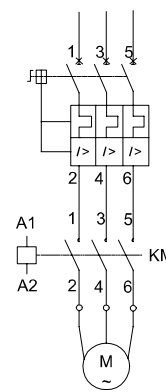
Wiring Diagram

HDP6 drive motor directly



Used for low operation frequency area

HDP6 use with HDC6



Used for high operation frequency area