



Catalogue

Reliable made affordable





About Himel

Himel is a multinational manufacturer and provider of electrical products successfully combining global expertise with local knowledge.

Founded by a Spanish entrepreneur in 1958, the company pioneered in exporting quality electrical enclosures, establishing Himel brand globally. Today, our global footprint and technology enable us to provide the best combination of affordable and reliable offers for Low Voltage Power distribution, Industry Automation and Home Electric to our long-term customers and partners in over 50 countries where we are present.

Himel. Reliable made affordable



Motor Management

HDZ9 Miniature Relays

NEW



HDZ9

Rated current: 3A, 5A, 10A
Pole: 2P/3P/4P
Maximum Rated voltage: 690V

HJSZ3 Electronic Time Relays



HJSZ3

Rated Voltage: AC 120, 240, 400V DC 125, 250V
Delay after power-on : 0.05s-24h,
Delay after power-off : 0.1s-30M

HXJ9 Phase Failure and Sequence Protection Relays



HXJ9

Rated voltage : 380, 400V
Overvoltage : 380-460V, 400-480V
Undervoltage : 300-380V, 320-400V

HDP6 Motor Circuit Breakers



HDP6

Frame rated current: 32/80A
Setting Current : 0.1-0.16A,...., 24-32A, 40-80A

HDS3 Magnetic Starters

NEW



HDS3

Frame current: 38A, 95A
Rated current: 09-95A
Protection level: IP54

BASIC Series Variable Speed Drives

NEW



BASIC

Small & Simple General-Purpose Applications

EXPERT Series Variable Speed Drives



EXPERT

Pump, Fan & Advanced General-Purpose Applications

SMART Solar Variable Speed Drives

NEW



SMART

Solar Pump Applications

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4



Range presentation

HDC3 is Himel 3 series range of contactors designed for Motor Control AC3 applications up to 630A .

HDC3 contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HDC3 contactors can be combined with HDR3s thermal overload relays to form magnetic motor starters up to 95A.

Features

- ◆ 5 frame sizes: 25, 38, 95, 225, 630A
- ◆ Wide range of operating voltage from 70%~120% Us
- ◆ Full range of accessories for any type of application
- ◆ Can be combined with HDR3s thermal overload relay

Online content



HDC3

Selection code

Range name	Current specification	Reversible	Auxiliary contact	Coil voltage	Coil frequency
HDC3	06	N	11	M	5
09-95A	06: 06A 09: 09A 12: 12A 18: 18A 25: 25A 32: 32A 38: 38A 40: 40A 50: 50A 65: 65A 80: 80A 95: 95A	N: reversible AC Contact with mechanical interlock Default: AC Contact	11: 1NO+1NC	B: 24V C: 36V E: 48V F: 110V S: 127V M: 220/230V U: 240V Q: 380/400V L: 415V X: 440V	5: 50Hz 7: 50/60Hz

Range name	Current specification	Reversible	Auxiliary contact	Coil voltage	Coil frequency
HDC3	120	N	22	M	7
120-630A	120: 120A 160: 160A 185: 185A 225: 225A 265: 265A 330: 330A 400: 400A 500: 500A 630: 630A	Default: AC Contact	22: 2NO+2NC	F: 110V S: 127V M: 220V Q: 380V EHE7: 48-130V KUE7: 100-250V URE7: 250-500V	5: 50Hz 7: 50/60Hz

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4



Technical parameter														
AC Contactors		HDC3												
Contactor model		06	09	12	18	25	32	38	40	50	65	80	95	
Main circuit characteristics														
Conventional thermal current(Ith)	380/400V	A	25	25	25	32	40	50	50	60	80	80	125	125
Rated operating current (Ie)		A	6	9	12	18	25	32	38	40	50	65	80	95
Rated operating power(Pe) AC-3	220/230V	kW	1.1	2.2	3	4	5.5	7.5	11	11	15	18.5	22	25
	380/400V	kW	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
	660/690V	kW	3	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45
Mechanical endurance		10k times	1200					1000			900		650	
Electrical endurance	AC-3	10k times	110				90				65			
Operation frequency		Times/hour	1200				600							
Number of poles			3P											
Rated insulation voltage(Ui)		V	690											
Maximum rated operating voltage(Ue)		V	660/690											
Coil														
Rated control circuit voltage(Us)	50Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440											
	50/60Hz	V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440											
Allowable control circuit voltage(Us)	Operation	V	AC:70%~120% (vertical installation)											
	Drop-out	V	AC: 20%-75%											
Coil power	Actuation	VA	50	60	70	200	200							
	Holdin	VA	6-9.5	6-9.5	6-9.5	15-20	15-20							
Main circuit terminal wiring capability														
Soft wire	1 wire	mm ²	1...4			1.5...6		2.5..25		4...50				
	2 wire	mm ²	1...4			1.5...6		2.5..16		4...25				
Hard wire	1 wire	mm ²	1...4		1.5...6	1.5...10	2.5..25		4...50					
	2 wire	mm ²	1...4		1.5...6	1.5...6	2.5..10		4...25					
Auxiliary contact														
Conventional thermal current(Ith)		A	10											
Rated operating voltage	AC	V	380											
	DC	V	220											
Rated control capacity	AC-15	VA	380											
	DC-13	W	33											

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4










Technical parameters											
AC Contactors			HDC3								
Contactor model			120	160	185	225	265	330	400	500	630
Main circuit characteristics											
Conventional thermal current(Ith)	380/400V	A	200	200	275	275	315	380	450	630	700
Rated operating current (Ie)		A	120	160	185	225	265	330	400	500	630
Rated operating power(Pe) AC-3	220/230V	kW	37	45	55	63	75	90	132	160	200
	380/400V	kW	55	75	90	110	132	160	220	250	355
	660/690V	kW	80	100	110	110	165	220	300	350	450
Mechanical endurance		10k times	120		110		90			80	
Electrical endurance	AC-3	10k times	1200				600				
Operation frequency		Times/hour	1000				600				
Number of poles			3P								
Rated insulation voltage(Ui)		V	1000								
Maximum rated operating voltage(Ue)		V	690								
Coil											
Rated control circuit voltage(Us)	50Hz	V	110V,127V,220V,380V								
	50/60Hz	V	48-130V, 100-250V, 250-500V (AC-DC universal)								
Allowable control circuit voltage(Us)	Operation	V	AC:85%-110% (vertical installation); AC-DC: 85%-110%								
	Drop-out	V	AC: 20%-75%; AC-DC: 10%-70%								
Coil power	Actuation	VA	500		600		800				
	Holdin	VA	78		18.5		18.5				
Main circuit terminal wiring capability											
Soft wire	1 wire	mm ²	10-240								
	2 wire	mm ²	10-75								
Hard wire	1 wire	mm ²	10-150				50-240				
	2 wire	mm ²	10-75				50-240				
Auxiliary contact											
Conventional thermal current(Ith)		A	10								
Rated operating voltage	AC	V	380								
	DC	V	220								
Rated control capacity	AC-15	VA	380								
	DC-13	W	33								

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4








Technical parameter														
AC Contactors	HDC3													
Contacteur model		06	09	12	18	25	32	38	40	50	65	80	95	
Main circuit characteristics														
Rated operating current (Ie)	380/400V	A	6	9	12	18	25	32	38	40	50	65	80	95
Rated operating power (Pe) AC-3		kW	2.2	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
Accessories														
Top auxiliary contact		2 Poles: HF4-11, HF4-20, HF4-02 4 Poles: HF4-22, HF4-31, HF4-13, HF4-40, HF4-40												
Side auxiliary contact		2 Poles: HFC6-11, HFC6-20, HFC6-02												
Air delayed head		Making time delay: HFT6-20, HFT-22, HFT-24 Breaking time delay: HFT6-30, HFT-32, HFT-34												
Mechanical interlock		9-63A horizontal installation : HRF6-32 40-95A horizontal installation : HRF6-95												
Spear coil		HX3 + Contact AF + Ue + Hz EXP : HX395M7 , HDC3 Coil 80-95A 220/230V 50/60Hz												
Thermal relay														
HDR3s thermal relay 6-95 A		HDR3s-25 P16 : 0.1-0.16A P25 : 0.16-0.25A 25 : 17-25A			HDR3s-38 32 : 23-32A 38 : 30-40A			HDR3s-95 40 : 30-40A 50 : 37-50A 93 : 80-93A						
Allowable control circuit voltage (Us)		HJRS1D25J			HJRS1D38J			HJRS1D93J						

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4



Technical parameter														
AC Contactors	HDC3													
Contacteur model HDC3		120	160	185	225	265	330	400	500	630				
Main circuit characteristics														
Rated operating current (Ie)	380/400V	kW	18	25	32	38	40	50	65	80	95			
Rated operating power (Pe) AC-3			55	75	90	110	132	160	220	250	355			
Accessories														
Top auxiliary contact		2 Poles: HF4-11, HF4-20, HF4-02 4 Poles: HF4-22, HF4-31, HF4-13, HF4-40, HF4-40												
Side auxiliary contact		2 Poles: HFC6s-11												
Air delayed head		Making time delay: HFT6-20, HFT-22, HFT-24 Breaking time delay: HFT6-30, HFT-32, HFT-34												
Mechanical interlock	Consult us, available in 2021													
Spare coil		HX3 + Contact AF + Ue + Hz EXP : HX3120M , HDC3 Coil 120A 220 50Hz HX3160KUE7, HDC3 Coil 160A AC/DC100-250V 50/60Hz												
Thermal relay														
HDR3s thermal relay 120-630 A		HDR3s-185 95 : 75-95A 135 : 105-135A 185 : 150-185A						HDR3s-630 200F : 145-200A 250F : 180-250A 630F : 460-630A						

Motor Management

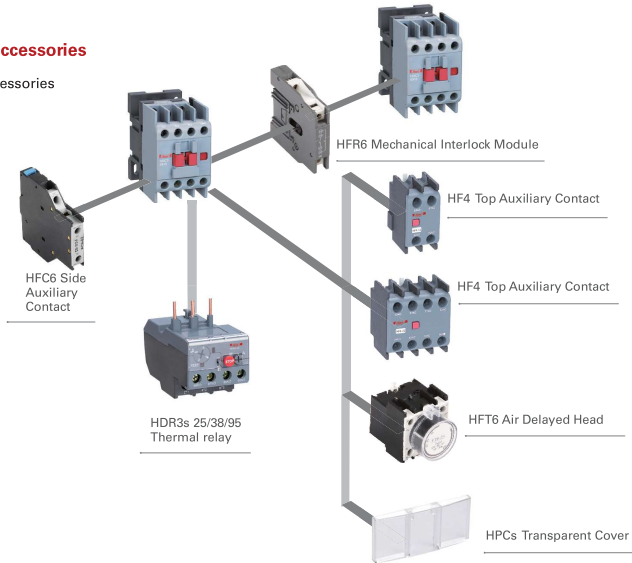
HDC3 AC Contactors

Standard: IEC60947-4

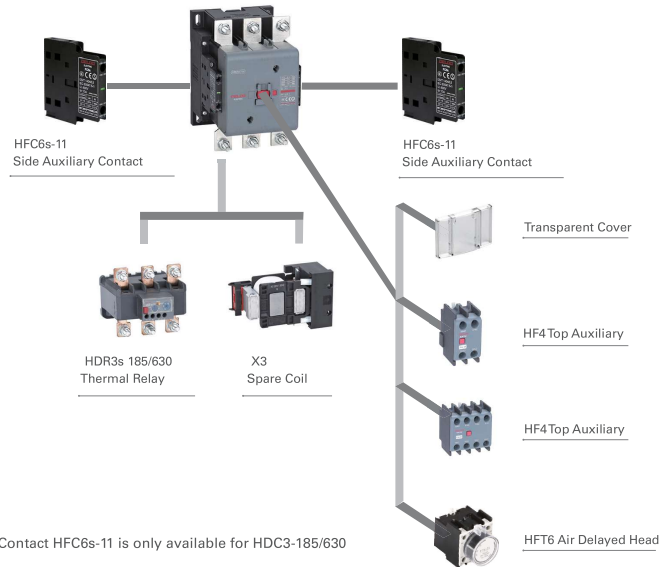


Overview of accessories

HDC3 09-95A Accessories



HDC3 120-630A Accessories



Note: Side Auxiliary Contact HFC6s-11 is only available for HDC3-185/630

Motor Management

HDC3 AC Contactors

Standard: IEC60947-4



Transparent cover

Contactor Type	Reference
HDC3-6~38A/HDZ3	HPCs38
HDC3-40~65A	HPCs65
HDC3-80~95A	HPCs95

HDC3 6-95A & 120-630A contactor accessories

Auxiliary contact

Installation position	Pole	Auxiliary Contact NO	NC	Contact point layout	Reference
Top	2	0	2		HF4 02
		1	1		HF4 11
		2	0		HF4 20
	4	0	4		HF4 04
		1	3		HF4 13
		2	2		HF4 22
3		1		HF4 31	
Side	2	0	2		HFC6 02
		1	1		HFC6 11
	2	0		HFC6 20	



Air Delayed Head

Installation Position	Delay type	Wiring diagram	Delay range	Reference
Top	Making time-delay		0.1-3s	HFT6 20
			0.1-30s	HFT6 22
			10-180s	HFT6 24
Top	Breaking time-delay		0.1-3s	HFT6 30
			0.1-30s	HFT6 32
			10-180s	HFT6 34



Mechanical Interlock

Horizontal installation		
Interlock method	Contact type	Reference
Mechanical interlock	HDC3-9~32	HFR6 32 H
with electrical interlock	HDC3-40~95	HFR6 95 H



Motor Management

HDR3s Thermal Overload Relays

Standard: IEC60947-4



Range presentation

HDR3s is Himel 3 series range of thermal overload relays designed to provide protection against overload, phase loss and current imbalance.

HDR3s thermal overload relays can be combined with HDC3 contactors into motor starter.

Features

- ◆ Frame Rating Current: 25, 38, 93, 185, 630A
- ◆ Setting Current: 0.1-630 A

Online content



HDR3s

Selection code

Range name	Frame size	Setting currents
HDR3s	25	P16
HDR3s	25: 25A	P16: 0.1- 0.16A 25: 17 - 25A
	38: 38A	32: 25 - 32A 40: 32 - 38A
	95: 95A	10: 70- 10A 93: 80 - 93A
	185: 185A	65: 48-65A 185: 150-185A
	630: 630A	200: 145-200A 630: 460-630A

Technical parameters				
Thermal overload relay		HDR3s		
Main technical parameters				
Temperature compensation	-5°C--+40°C			
HDR3s Thermal Relay	25	38	95	185
Trip level	10A		10	
Rated insulation voltage(Ui) V	660V		690V	
Base	HJRS1D25J	HJRS1D36J	HJRS1D93J	-
Certification	CB, CE, SEMKO			
Product features				
Overload protection	Yes			
Phase-failure protection	Yes			
Manual reset	Yes			
Automatic reset	Yes			
Stop button	Yes			
Test button	Yes			
Trip indication	Yes			
Tolerance on slope in any direction	±5°			
Auxiliary circuit 1NO+1NC				
Utilization category	AC-15		DC-13	
Rated frequency Hz	50/60		50/60	
Rated insulation voltage (Ui) V	500		500	
Rated operating voltage (Ue) V	230		230	
Rated operating current Ie A	1.57		0.90	
Conventional thermal current Ith A	5		5	
Wiring	1mm ²			

Motor Management

HDC6 AC Contactors

Standard: IEC60947-4



Range presentation

HDC6 is Himel 6 series range of contactors designed for Motor Control AC3 applications up to 630A 690V.

HDC6 contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HDC6 contactors can be combined with HDR6 thermal overload relays to provide overload protection

Features

- ◆ Current specifications: 6A-95A, 115A-630A
- ◆ Pole: 3-pole
- ◆ Coil voltage: 24-440V
- ◆ Coil frequency: 50Hz, 50/60Hz

Online content



HDC6

Selection code

Range name	Current specification	Auxiliary contact	Coil voltage	Coil frequency
HDC6	09	11	M	7
HDC6	09: 09A 630: 630A	00: 0NO+0NC 11: 1NO+1NC	B: 24V C: 36V E: 48V F: 110V S: 127V M: 220/230V U: 240V Q: 380/400V L: 415V X: 440V	Default: 50Hz 7: 50/60Hz

Motor Management

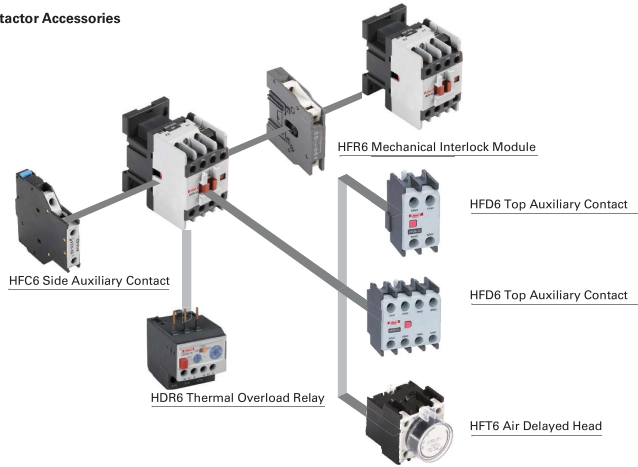
HDC6 AC Contactors

Standard: IEC60947-4

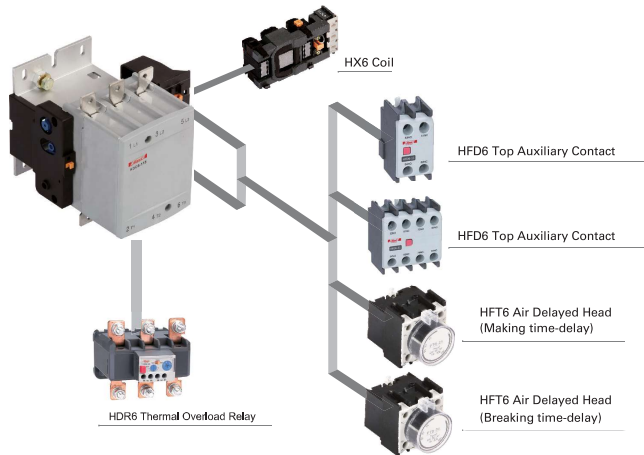


Overview of accessories

HDC6-9-95A Contactor Accessories



HDC6-115-630A Contactor Accessories



Motor Management

HDC6 AC Contactors

Standard: IEC60947-4



Technical parameters											
AC Contactors	HDC6-09	HDC6-12	HDC6-18	HDC6-25	HDC6-32	HDC6-40	HDC6-50	HDC6-65	HDC6-80	HDC6-95	
Main circuit characteristics											
Rated operating current (AC380V/400V)	le, AC-3 le, AC-4 le, AC-1	9A 3.5A 20A	12A 8.9A 20A	18A 12A 32A	25A 18A 40A	32A 21A 50A	40A 34A 60A	50A 39A 80A	65A 42A 80A	80A 49A 125A	95A 55A 125A
Rated insulation voltage (Ui)	690V										
Maximum rated operating voltage (Ue)	690V										
Number of poles	3										
Rated operating power class AC-3	220/240V 380/400V 415/440V 660/690V	2.2kW 4kW 4kW 5.5kW	3kW 5.5kW 5.5kW 7.5kW	4kW 7.5kW 9kW 10kW	5.5kW 11kW 11kW 15kW	7.5kW 15kW 15kW 18.5kW	11kW 18.5kW 22kW 30kW	15kW 22kW 25kW 33kW	18.5kW 30kW 37kW 37kW	22kW 37kW 45kW 45kW	25kW 45kW 45kW 45kW
AC-3	Electric durabilities (10 thousand times) Operating Rate (time/h)	100 1200	100 1200	100 1200	100 1200	80 600	80 600	80 600	80 600	60 600	60 600
Mechanical durabilities	(10 thousand times)	1000	1000	1000	1000	800	800	800	800	800	800
Coil											
Rated control circuit voltage (Us)	50/60Hz	24V, 48V, 110V, 220V, 230V, 240V, 380V, 400V									
Allowable control circuit voltage (Us)	Operation Drop-out	85%~110% Us 20%~75% Us									
Coil power	Actuation VA Holding VA Heat dissipation W	70 8 1.8~2.7			110 11 3~4			200 20 6~10			
Terminal wiring ability											
Soft wire without terminal block	1 pc (wire section mm ²) 2 pcs (wire section mm ²)	1~4 1~4	1~4 1~4	1.5~6 1.5~6	1.5~10 1.5~6	2.5~10 2.5~10	2.5~25 2.5~16	2.5~25 2.5~16	2.5~25 2.5~16	4~50 4~25	4~50 4~25
Soft wire with terminal block	1 pc (wire section mm ²) 2 pcs (wire section mm ²)	1~4 1~2.5	1~4 1~2.5	1~6 1~4	1~6 1~4	1~10 1.5~6	2.5~25 2.5~10	2.5~25 2.5~10	2.5~25 2.5~10	4~50 4~16	4~50 4~16
Hard wire without terminal block	1 pc (wire section mm ²) 2 pcs (wire section mm ²)	1~4 1~4	1~4 1~4	1.5~6 1.5~6	1.5~6 1.5~6	1.5~10 2.5~10	2.5~25 2.5~16	2.5~25 2.5~16	2.5~25 2.5~16	4~50 4~25	4~50 4~25
Auxiliary contact											
Rated thermal turrent (Ith)	A	10									
Rated operating voltage (Ue)	AC V DCV	400 220									
Rated control capacity	AC-15 VA	360									

Motor Management

HDC6 AC Contactors

Standard: IEC60947-4



Technical parameters										
AC Contactors	HDC6-115	HDC6-150	HDC6-185	HDC6-225	HDC6-265	HDC6-330	HDC6-400	HDC6-500	HDC6-630	
Main circuit characteristics										
Rated operating current (AC380V/400V)	le, AC-3 le, AC-4 le, AC-1	115A 52A 200A	150A 60A 250A	185A 79A 275A	225A 85A 315A	265A 105A 350A	330A 117A 400A	400A 138A 500A	500A 147A 630A	630A 188A 800A
Rated insulation voltage (Ui)		1000V								
Rated operating voltage (Ue)		690V								
Number of pole		3								
Rated operating power class AC-3	220/240V 380/400V 415/440V 660/690V	30kW 55kW 59kW 80kW	40kW 75kW 80kW 100kW	55kW 90kW 100kW 110kW	63kW 110kW 110kW 129kW	75kW 132kW 140kW 160kW	100kW 160kW 180kW 220kW	110kW 200kW 220kW 280kW	147kW 250kW 280kW 335kW	200kW 335kW 375kW 450kW
AC-3	Electric durabilities (10 thousand times) Operating Rate (time/h)	120 600	120 600	100 600	100 600	80 600	80 600	80 300	80 300	80 300
Mechanical durabilities	(10 thousand times)	1000	1000	600	600	600	600	600	600	600
Coil										
Rated control circuit voltage (Us)	50Hz 50/60Hz	110V, 127V, 220V-230V, 240V, 380V-400V, 440V 110V, 220-230V, 240V, 380V-400V (115-225A), 110V, 127V, 220V-230V, 240V, 380V-400V, 440V(265-630A)								
Allowable control circuit voltage (Us)	Operation Drop-out	85%~110% Us 20%~75% Us								
Coil power	Actuation VA Holding VA Heat dissipation W	550 45 16	800 55 24	1200 13 12	1200 20 14	1250 24 18	1650 22 20			
Terminal wiring ability										
Fixed wire without terminal block	1 pc (wire section mm ²) 2 pcs (wire section mm ²)	95 -	120 -	150 -	185 -	240 -	240 -	- 150	- 240	- -
Copper bar	2 pcs (size mm ²)	20*3	25*3	25*3	32*4	32*4	30*5	30*5	40*5	60*5
Auxiliary contact										
Rated thermal current (Ith)	A	10								
Rated operating voltage (Ue)	AC V DC V	400 220								
Rated control capacity	AC-15 VA	360								

Motor Management

HDR6 Thermal Overload Relays

Standard: IEC60947-4



Range presentation

HDR6 is Himel 6 series range of thermal overload relays designed to provide protection against overload, phase loss and current imbalance.

HDR6 thermal overload relays can be combined with HDC6 contactors into motor starter.

Features

- ◆ Frame rating current: 18, 32, 95, 185, 630A
- ◆ Setting current: 0.1-0.15A...460-630A

Online content



HDR6

Selection code

Range name	Frame size	Setting currents	Installation type
HDR6	18	18	
HDR6	18: 18A	P15: 0.1-0.15A 18: 14-18A	Default: None F: Independent installation
	32: 32A	9: 6.3-9A 32: 23-32A	
	95: 95A	25: 18-25A 95: 80-95A	
	185: 185A	65: 48-65A 185: 150-185A	
	630: 630A	200: 145-200A 630: 460-630A	

Motor Management

HDR6 Thermal Overload Relays

Standard: IEC60947-4



Order information

Setting current	Matched fuse		Matched contactor	Reference
	aM	gG		
0.10-0.15A	0.25	2	HDC6-09-18	HDR6 18 P15
0.12-0.18A	0.25	2	HDC6-09-18	HDR6 18 P18
0.18-0.25A	0.5	2	HDC6-09-18	HDR6 18 P25
0.25-0.36A	1	2	HDC6-09-18	HDR6 18 P36
0.35-0.50A	1	2	HDC6-09-18	HDR6 18 P5
0.50-0.70A	1	2	HDC6-09-18	HDR6 18 P7
0.63-0.90A	2	4	HDC6-09-18	HDR6 18 P9
0.90-1.20A	2	4	HDC6-09-18	HDR6 18 1P2
1.20-1.80A	4	6	HDC6-09-18	HDR6 18 1P8
1.80-2.50A	4	6	HDC6-09-18	HDR6 18 2P5
2.50-3.60A	6	10	HDC6-09-18	HDR6 18 3P6
3.50-4.80A	8	16	HDC6-09-18	HDR6 18 4P8
4.50-6.30A	8	16	HDC6-09-18	HDR6 18 6P3
5-7A	12	20	HDC6-09-18	HDR6 18 7
6.3-9A	12	20	HDC6-09-18	HDR6 18 9
9-12A	16	25	HDC6-09-18	HDR6 18 12
11-15A	20	35	HDC6-09-18	HDR6 18 15
14-18A	20	35	HDC6-09-18	HDR6 18 18
6.3-9A	12	20	HDC6-25-32	HDR6 32 9
9-12A	16	25	HDC6-25-32	HDR6 32 12
12-18A	20	35	HDC6-25-32	HDR6 32 18
18-25A	25	50	HDC6-25-32	HDR6 32 25
23-32A	40	63	HDC6-25-32	HDR6 32 32
18-25A	25	50	HDC6-40-95	HDR6 95 25
23-32A	40	63	HDC6-40-95	HDR6 95 32
30-40A	40	100	HDC6-40-95	HDR6 95 40
37-50A	63	100	HDC6-40-95	HDR6 95 50
48-65A	63	100	HDC6-40-95	HDR6 95 65
55-70A	80	125	HDC6-40-95	HDR6 95 70
63-80A	80	125	HDC6-40-95	HDR6 95 80
80-95A	100	160	HDC6-40-95	HDR6 95 95



Base

Adaptive thermal relay type	Reference
HDR6-18	HDR6 18 J
HDR6-32	HDR6 32 J
HDR6-95	HDR6 95 J

Motor Management

HDR6 Thermal Overload Relays

Standard: IEC60947-4



Order information

Setting current	Matched relay		Matched contactor	Reference
	aM	gG		
48-65	80	100	HDC6-115-185	HDR6 185 65
55-70	80	100	HDC6-115-185	HDR6 185 70
63-80	80	100	HDC6-115-185	HDR6 185 80
75-95	100	125	HDC6-115-185	HDR6 185 95
90-115	125	200	HDC6-115-185	HDR6 185 115
105-135	160	200	HDC6-115-185	HDR6 185 135
120-150	160	200	HDC6-115-185	HDR6 185 150
130-160	160	250	HDC6-115-185	HDR6 185 160
150-185	200	250	HDC6-115-185	HDR6 185 185
145-200	200	400	HDC6-225-630	HDR6 630 200F
180-250	250	400	HDC6-225-630	HDR6 630 250F
230-320	355	500	HDC6-225-630	HDR6 630 320F
290-400	400	630	HDC6-225-630	HDR6 630 400F
350-480	500	800	HDC6-225-630	HDR6 630 480F
460-630	630	800	HDC6-225-630	HDR6 630 630F



Technical parameters

Thermal Overload Relays		HDR6
Temperature compensation		-10°C ~ +55°C
Trip class	10A	HDR6-18, 32, 630/F
	10	HDR6-95, 185
	HDR6-18	0.1-18A
	HDR6-32	6.3-32A
Frame current	HDR6-95	18-95A
	HDR6-185 HDR6-630/F	48-185A 145-630A
Rated impulse withstand voltage (Uimp)		6kV
Protection function		Over-load protection
		Phase failure protection
		Manual and automatic reset
		Tripping indication
		Stop button Test button
Installation method		Assembly / Independent: HDR6-18-185
		Independent: HDR6-630/F
Auxiliary circuit		
Rated thermal current		6A
Contact type		1NO+1NC
Rated insulating voltage		690V
Control capacity	AC-15 220V/240V	1.64A
	AC-15 380V/415V	0.95A
	DC-13 220V/240V	0.23A
Wiring ability	Wire section	1mm ²

Motor Management

HJX2 4P AC Contactors

Standard: IEC60947-4



Range presentation

HJX2 & HJX2F 4P AC contactor is Himel HJX series range of contactors designed for Motor Control AC3 applications up to 800A 690V.

HJX2 & HJX2F contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HJX2 & HJX2F contactors can be combined with HDR3s thermal overload relays to provide overload protection.

Features

- ◆ Current specifications: 9-800A
- ◆ Pole: 4-pole
- ◆ Coil voltage: 24-440V
- ◆ Coil frequency: 50/60Hz

Online content



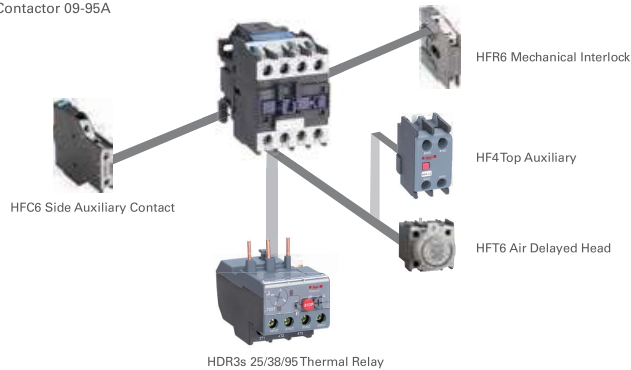
HJX2

Selection code

Range name	Current specification	Main contact	Coil voltage	Coil frequency
HJX2	09	4	M	7
HJX2	09: 09A 95: 95A	04: 4NO+0NC 08: 2NO+2NC	B: 24V C: 36V E: 48V F: 110V S: 127V M: 220/230V U: 240V Q: 380/400V L: 415V X: 440V	7: 50/60Hz

Overview of accessories

HJX2 4P AC Contactor 09-95A



Motor Management

HJX2 4P AC Contactors

Standard: IEC60947-4



Technical parameters		HJX2-09	HJX2-12	HJX2-25	HJX2-40	HJX2-50	HJX2-65	HJX2-80	HJX2-95
AC Contactors									
Main circuit characteristics									
Maximum rated operating voltage (Ue)		690V							
Rated insulation voltage (Ui)		690V							
Rated impulse withstand voltage (Uimp)		8kV							
Conventional thermal current A		25	25	40	60	80	80	125	125
Rated Operating Current	380/400V AC-3 A	9	12	25	40	50	65	80	95
	660/690V AC-3 A	6.6	8.9	18	34	39	42	49	49
	380/400V AC-4 A	3.3	5	8.5	18.5	24	28	37	44
	660/690V AC-4 A	1.5	2	4.4	9	12	14	17.3	21.3
Rated power of 3-phase cage motor	380/400V AC-3 KW	4	5.5	11	18.5	22	30	37	45
	660/690V AC-3 KW	5.5	7.5	15	30	33	37	45	45
	380/400V AC-4 KW	1.2	2.2	4	7.5	11	15	18.5	22
	660/690V AC-4 KW	1.1	1.5	4	7.5	11	11	15	18.5
Electric durabilities	AC-3 ×10 ⁴ operations	100	100	100	80	80	80	60	60
	AC-4 ×10 ⁴ operations	20	20	20	15	15	15	10	10
Mechanical durabilities ×10 ⁴ operations		1000	1000	1000	800	800	800	600	600
Operating frequency	AC-3 cycles/h	1200	1200	1200	600	600	600	600	600
	AC-4 cycles/h	300	300	300	300	300	300	300	300
Matched fuse		HRT16-25	HRT16-25	HRT16-50	HRT16-63	HRT16-80	HRT16-80	HRT16-125	HRT16-125
Cable connection cross section mm ²		1.5	1.5	4	10	16	16	25	35
Coil									
Coil voltage(Us) V		AC 24V, 36V, 110V, 220V, 380V							
Operating voltage V		85%...110% Us							
Drop-out voltage V		20%...75% Us							
Coil power	Actuation VA	70	70	110	200	200	200	200	200
	Holding VA	9	9	11	24	24	24	24	24
	Heat dissipation W	2.7	2.7	4	10	10	10	10	10
Terminal wiring ability									
Flexible wire without terminal block	1pc(Section of connecting conduction mm ²)	1-4	1-4	1.5-6	2.5-25	2.5-25	2.5-25	4-50	4-50
	2pcs(Section of connecting conduction mm ²)	1-4	1-4	1.5-6	2.5-16	2.5-16	2.5-16	4-25	4-25
Flexible wire with terminal block	1pc(Section of connecting conduction mm ²)	1-4	1-4	1-6	2.5-25	2.5-25	2.5-25	4-50	4-50
	2pcs(Section of connecting conduction mm ²)	1-2.5	1-2.5	1-4	2.5-10	2.5-10	2.5-10	4-16	4-16
Fixed wire without terminal block	1pc(Section of connecting conduction mm ²)	1-4	1-4	1.5-6	2.5-25	2.5-25	2.5-25	4-50	4-50
	2pcs(Section of connecting conduction mm ²)	1-4	1-4	1.5-6	2.5-16	2.5-16	2.5-16	4-25	4-25
Auxiliary contact									
Rated thermal Current (Ith) A		10							
Rated operating Voltage (Ue)	AC V	400							
	DC V	220							
Rated control capacity	AC-15 VA	360							
	DC-13 VA	33							

Motor Management

HJX2-F 4P AC Contactors

Standard: IEC60947-4



Range presentation

HJX2 & HJX2F 4P AC contactor is Himel range of contactors designed for Motor Control AC3 applications up to 800A 690V.

HJX2 & HJX2F contactors are applicable to AC power systems 50Hz or 60Hz with rated operating voltage up to 690V.

HJX2 & HJX2F contactors can be combined with HDR3s thermal overload relays to provide overload protection.

Features

- ◆ Current Specifications: 115-800A
- ◆ Pole: 4 poles
- ◆ Coil Voltage: 110-440V
- ◆ Coil Frequency: 50/60Hz

Online content



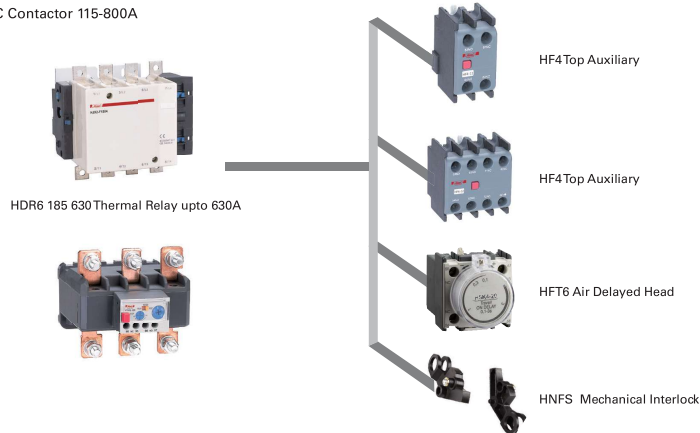
HJX2-F

Selection code

Range name	Current specification	Main contact	Coil voltage	Coil frequency
HJX2F	115	4	M	7
HJX2F	115: 115A 150: 150A 800: 800A	4: 4NO+0NC	F: 110V S: 127V M: 220/230V U: 240V Q: 380/400V L: 415V X: 440V	7: 50/60Hz

Overview of accessories

HJX2F 4P AC Contactor 115-800A



Motor Management

HJX2-F 4P AC Contactors

Standard: IEC60947-4



Technical parameters										
AC Contactors	HJX2-F115	HJX2-F150	HJX2-F185	HJX2-F225	HJX2-F265	HJX2-F330	HJX2-F400	HJX2-F500	HJX2-F630	HJX2-F800
Main circuit characteristics										
Maximum Rated Operating voltage (Ue)	660/690V									
Rated Insulation Voltage (Ui)	690V									
Rated Impulse Withstand Voltage (Uimp)	8kV									
Conventional thermal current	200	250	275	315	350	400	500	630	800	800
Rated Operating Current	440V AC-3 A	115	150	185	225	265	330	400	500	630
	440V AC-4 A	52	60	79	85	105	117	138	147	188
	660V AC-3 A	86	107	118	135	170	235	305	355	460
	660V AC-4 A	49	57	69	82	98	107	135	145	170
le max AC-1 A@ ≤40 °C	200	250	275	315	350	400	500	630	800	800
Rated power of AC-3	220/240V	30	40	55	63	75	100	129	147	200
	380/400V	55	75	90	100	132	160	200	250	335
	415V	59	80	100	110	140	180	220	280	375
	440V	59	80	100	110	140	180	220	280	375
	500V	75	90	110	129	160	200	257	335	400
	660/690V	80	100	120	129	180	220	280	355	450
1000V	65	65	100	140	147	160	185	335	450	450
Electric durabilities	AC-3 ×10 ⁴ operations	60	60	50	50	50	50	30	30	20
	AC-4 ×10 ⁴ operations	15	15	15	15	15	15	8	8	5
Mechanical durabilities	×10 ⁴ operations	300	300	300	300	300	300	100	100	100
Operating frequency cycles/h	AC-1, AC-2, AC-3	600	600	600	600	600	600	300	300	300
	AC-4	150	150	150	150	150	150	150	150	150
Matched fuse	Model	HRT16-1	HRT16-1	HRT16-2	HRT16-2	HRT16-2	HRT16-3	HRT16-3	HRT16-3	HRT16-4
	Rated current(A)	200	250	315	315	400	500	500	500	630
Cable connection cross section	mm ²	95	120	150	185	240	240	2*150	2*240	2*60*5 2*60*5
Coil										
Coil Voltage(Us)	V	110V, 220V, 230V, 240V, 380V, 400V, 415V, 440V								
Operating voltage	Pull in voltage V	85%...110% Us								
Drop-out voltage	Drop-out voltage AC V	20%...75% Us								
	Drop-out voltage DC V	10%...75% Us								
Average Coil Power	Actuation AC VA	855	855	1180	1180	700	700	1150	1150	1730
	Holding AC VA	8.1	8.1	10.9	10.9	10	10	18	20	25
	Actuation DC VA	665	665	902	902	803	803	1140	1220	1920
	Holding DC VA	4.83	4.83	5.07	5.07	4.53	4.53	7.5	8	12.5
Heat Dissipation W	7.2	7.2	9.8	9.8	10.4	10.4	14	18	20	20
Terminal Wiring Ability - Main Circuit										
Wiring Bar	Bar quantity	2	2	2	2	2	2	2	2	2
	Dimensions	20×3	25×3	25×3	32×3	32×4	30×5	30×5	40×5	60×5
Wire With Lug Plate	mm ²	95	120	150	185	240	240	2×150	2×240	---
Wire With Coupler	mm ²	95	120	150	185	240	---	---	---	---
Fastening Torque	N.m	10	18	18	35	35	35	35	58	58

Motor Management

HJSZ3 Electronic Timer Relays

Standard: IEC60947-4



Range presentation

HJSZ3 is Himel range of Electronic Timer relay designed for industrial control applications.

HJSZ3 is applicable to AC 50Hz circuits with controlling voltage up to 400V.

Features

- ◆ Multi-position type Time delay range
- ◆ Power-on/off delay type available
- ◆ Wild rated voltage input range from 85%~110%

Online content



HJSZ3

Selection code

Range name	Time delay	Operation voltage	Range name	Time delay	Operation voltage
HJSZ3A	A	120	HJSZ3F	2S	120
HJSZ3A Time delay after power-on	A: 0.05-0.5s/5s/30s/3M B: 0.1-1s/10s/60s/6M C: 0.5-5s/50s/5M/30M D: 1-10s/100s/10M/60M E: 6s-60s/10M/60M/6h F: 0.2M-2M/20M/2h/12h G: 0.4M-4M/40M/4h/24h	120 240 400	HJSZ3F Time delay after power-off	1S: 0.1-1s 2S: 0.2-2s 3S: 0.3s-3s 5S: 0.5s-5s 6S: 0.6s-6s 10S: 1s-10s 20S: 2s-20s 30S: 3s-30s 60S: 6s-60s 100S: 10s-100s 180S: 18s-180s 5M: 0.5min-5min 6M: 0.6min-6min 10M: 1min-10min 20M: 2min-20min 30M: 3min-30min	120 240 400

Technical parameters	
Electronic Timer Relays	HJSZ3
Condition	AC-15 400V/1.95A; 240V/1.5A; 120V/3.0A DC-13 250V/0.27A; 125V/0.55A
Repetitive error	≤5%
Rated thermal current	5A
Mechanical life	≥1 × 10 ⁶ times
Electric life	≥1 × 10 ⁶ times
Power loss	≤3W
Working mode	A: Delay after power-on F: Delay after power-off
Reset mode	A: Power-off reset F: External device reset
Contact endurance	A: 5A (Resistive) F: 1A (Resistive)
Delay time	HJSZ3A: 0.05s-0.5s/5s/30s/3M, 0.1s-1s/10s/60s/6M 0.5s-5s/50s/5M/30M, 1s-10s/100s/10M/60M 6s-60s/10M/60M/6h, 0.2M-2M/20M/2h/12h 0.4M-4M/40M/4h/24h HJSZ3F: 0.1s-1s, 0.2s-2s, 0.3s-3s, 0.5s-5s, 0.6s-6s, 1s-10s, 2s-20s, 3s-30s, 6s-60s, 10s-100s, 10s-120s, 10s-180s, 0.4M-4M, 0.5M-5M, 0.6M-6M, 1M-10M, 2M-20M, 3M-30M
Temperature	-5°C~+40°C
Installation mode	Din rail mounted, Panel mounted

Motor Management

HDZ9 Miniature Relays

Standard: IEC60947-4



Range presentation

HDZ9 is Himel range of Miniature Relays designed to implement control signal conversion to low power output. They can be widely used for industrial control applications

Features

- ◆ Rated current: 3A, 5A, 10A
- ◆ Pole: 2-pole, 3-pole, 4-pole
- ◆ Maximum rated operating Voltage: 690V
- ◆ Rated operating frequency: 50/60Hz
- ◆ Coil specification: DC: 6V~220V; AC: 6V~380V
- ◆ New specification: Rotary push button

Online content



HDZ9

Selection code

Range name	Current specification	Poles	AC/DC	LED	Coil voltage	Type
HDZ9	05	2	D	L	M	R
HDZ9	03: 3A 05: 5A 10: 10A	2: 2P 3: 3P 4: 4P	Default: AC D: DC	Default: None L: LED	T: 6V J: 12V B: 24V C: 36V E: 48V F: 110V S: 127V M: 220V N: 230V U: 240V Q: 380V	Default: Classic R: Rotary button

Technical parameters		
Miniature relays	HDZ9	
Type	3A 4P 5A 2P 3P 4P 10A 2P 3P 4P	
Max load current	3A 5A 10A	
Max operation voltage	250VAC 28VDC	
Contact resistance	≤100mΩ	
Contact material	Silver Alloy	
Electrical endurance	≥100000 times (1800 times/h)	
Mechanical endurance	≥10000000 times (18000 times/h)	
Actuation voltage (23°C)	DC: ≤75% (rated voltage), AC: ≤80% (rated voltage)	
Release voltage (23°C)	DC: ≥10% (rated voltage), AC: ≥30% (rated voltage)	
Maximum voltage (23°C)	110% (rated voltage)	
Insulation resistance	≥100MΩ (500VDC)	
Coil power	DC: 0.9W AC: 1.2VA	
Actuation time (rated voltage)	≤15ms	
Release time (rated voltage)	≤10ms	
Withstand voltage	polar - contacts	1500VAC/1min (residual current is 1mA)
	bipolar - contacts	1200VAC/1min (residual current is 1mA)
	coil -contacts	1500VAC/1min (residual current is 1mA)
Ambient temperature	-25°C ~+55°C	
Ambient humidity	35%~85%RH	
Atmospheric pressure	86~106KPa	
Installation method	Plug-in	
Weight	30g	
Coil voltage	DC: 6V~220V; AC: 6V~380V.	
Certificate	CB, CE, SEMKO	

Motor Management

HDC17K Miniature AC Contactors

Standard: IEC60947-4



Range presentation

HDC17K is Himel Miniature AC Contactor for Remote make & break of circuits

Frequent start and stop of small power motors

Features

- ◆ Current: 6-12A
- ◆ Pole: 3/4-pole
- ◆ Coil voltage: 24-400V
- ◆ Coil frequency: 50/60Hz

Online content



HDC17K

Selection code

Range name	Current specification	Main contact	Auxiliary contact	Coil voltage	Coil frequency
HDC17K	06	30	10	M	5
HDC17K	06: 06A 09: 09A 12: 12A	30: 3NO 40: 4NO 22: 2NO+2NC	10: 1NO 01: 1NC	B: 24V C: 36V F: 110V S: 127V M: 220/230V Q: 380/400V	7: 50/60Hz

Order information

Motor P(kW) 380V	Rated current(A)	Main contact		Auxiliary contact		Reference
		NO	NC	NO	NC	
2.2	6	3	0	1	0	HDC17K63010*
		3	0	0	1	HDC17K63001*
		4	0	0	0	HDC17K64000*
		2	2	0	0	HDC17K62200*
4	9	3	0	1	0	HDC17K93010*
		3	0	0	1	HDC17K93001*
		4	0	0	0	HDC17K94000*
		2	2	0	0	HDC17K92200*
4	12	3	0	1	0	HDC17K123010*
		3	0	0	1	HDC17K123001*
		4	0	0	0	HDC17K124000*

Motor Management

HDC17K Miniature AC Contactors

Standard: IEC60947-4



Technical parameters					
Miniature AC Contactors			HDC17-K06	HDC17-K09	HDC17-K12
Main circuit characteristics					
Rated operating current	380V/400V, AC-3	A	6	9	12
	380V/400V, AC-4	A	2.6	3.5	5
	660V/690V, AC-3	A	3.5	5	6
	660V/690V, AC-4	A	1.2	1.5	2
Rated operating voltage	V	220/230, 380/400, 660/690			
Rated insulation voltage	V	690			
Rated conventional thermal current	A	16	20	20	
Pole		3, 4			
Power of controlled 3-phase cage motor	220V/230V, AC-3	kW	1.5	2.2	3
	380V/400V, AC-3	kW	2.2	4	5.5
	660V/690V, AC-3	kW	3	4	4
Electric endurance	AC-3	×10 ⁴ operations	100		
Operating rate		cycles/h	1200		
Electric endurance	AC-4	×10 ⁴ operations	20		
Operating rate		cycles/h	600		
Mechanical endurance		×10 ⁴ cycles	1000		
Matched Fuse			HRT16-16	HRT16-20	
Cable connection	Inflexible cable	number of piece	2		
	Cross Section of Cable	mm ²	4		
Coil					
Coil voltage(Us)	V	AC 24V,36V,110V,127V,220/230V,380/400V			
Operating voltage	V	85%~110% Us			
Drop-out voltage	V	20%~75% Us			
Inrush	VA	30			
Auxiliary contact					
Rated conventional thermal current	V	690			
Rated insulation voltage	A	10			
Rated operating current		A	0.95		
	380V, AC-15	A	0.15		
Control capacity	220V, DC-13	VA	360		
	AC-15	W	33		
	DC-13				

Motor Management

HDZ3 Contactor Relays

Standard: IEC60947-4



Range presentation

HDZ3 is Himel 3 series range of contactor relays design for industrial control applications.

HDZ3 contactor relays are suitable for AC and DC 50/60Hz control circuits.

Features

- ◆ For both DC and AC 50/60Hz control circuits
- ◆ 3 poles, similar design as HDC3 contactor
- ◆ 4 contacts with different NO+NC combinations
- ◆ Wide range of coil voltages 24V-440V

Online content

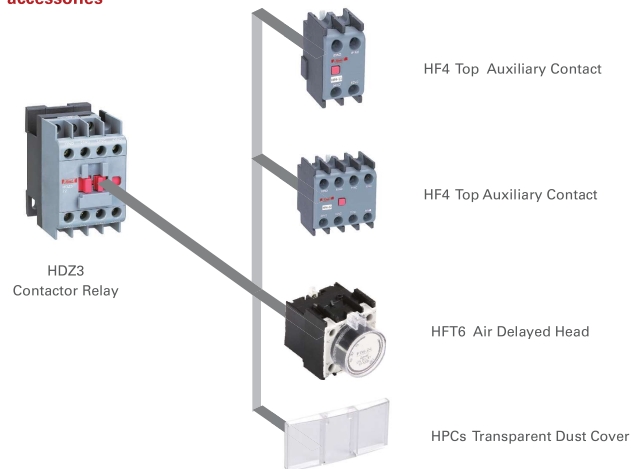


HDZ3

Selection code

Range name	Main contact	Coil voltage	Coil frequency
HDZ3	22	M	5
HDZ3	22: 2NO+2NC 31: 3NO+1NC 40: 4NO+0NC 13: 1NO+3NC 04: 0NO+4NC	B: 24V C: 36V E: 48V F: 110V S: 127V M: 220/230V U: 240V Q: 380/400V L: 415V X: 440V	5: 50Hz 7: 50/60Hz

Overview of accessories



Motor Management

HDZ3 Contactor Relays

Standard: IEC60947-4



Technical parameters		
Contactor Relays		HDZ3
Rated insulation voltage (Ui)	V	690
Conventional thermal current (Ith)	A	10
Rated operating current (Ie)	A	AC-15 380V: 0.95
		DC-13 220V: 0.15
Contact combination		2NO+2NC, 3NO+1NC, 4NO+0NC, 1NO+3NC, 0NO+4NC
Electrical endurance	10,000 times	110
Mechanical endurance	10,000 times	1100
Operating frequency	times/Hour	1200
Rated control circuit voltage(Us)	50Hz	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440
	50/60Hz	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440
Operating voltage range	V	AC 85%...110% Us
Drop-out voltage range	V	AC 20%...75% Us
Certification		CE, CB, SEMKO

Motor Management

HDP6 Motor Circuit Breakers

Standard: IEC60947-4



Range presentation

HDP6 Motor Control & Protection range is meant to help optimize and secure your installation from HVAC to small Genset applications. It also helps your packaging or pumping businesses to run on a reliable product.

The range covers application up to 32A including wide range of voltage from 230V up to 690V

Features

- ◆ Frame Current: 32A, 80A
- ◆ Setting Current: 0.1-32A, 25-80A

Online content



HDP6

Selection code

Range name	Frame size	Setting currents
HDP6	32	P16
HDP6	32: 32A	P16: 0.1-0.16A 32: 24-32A
HDP17K	80: 80A	40: 25-40A 63: 40-63A 80: 56-80A

Order information

Thermal release Setting current	Magnetic release Current Id	400/415V, 50/60Hz, AC-3 Rated operating power	Recommended Contactor	Reference
0.1-0.16A	1.5A	-	HDC3-0911	HDP632P16
0.16-0.25A	2.4A	0.06kW	HDC3-0911	HDP632P25
0.25-0.4A	5A	0.09kW	HDC3-0911	HDP632P4
0.4-0.63A	8A	0.12kW	HDC3-0911	HDP632P63
0.63-1A	13A	0.25kW	HDC3-0911	HDP6321
1-1.6A	22.5A	0.37kW	HDC3-0911	HDP6321P6
1.6-2.5A	33.5A	0.75kW	HDC3-0911	HDP6322P5
2.5-4A	51A	1.5kW	HDC3-0911	HDP6324
4-6.3A	78A	2.2kW	HDC3-0911	HDP6326P3
6-10A	138A	4kW	HDC3-0911	HDP63210
9-14A	170A	5.5kW	HDC3-1211	HDP63214
13-18A	223A	7.5kW	HDC3-1811	HDP63218
17-23A	327A	9kW	HDC3-2511	HDP63223
20-25A	327A	11kW	HDC3-2511	HDP63225
24-32A	416A	15kW	HDC3-3211	HDP63232
25-40A	480A	16kW	HDC3-4011	HDP17K8040
40-63A	756A	20kW	HDC3-6511	HDP17K8065
56-80A	960A	25kW	HDC3-8011	HDP17K8080

Motor Management

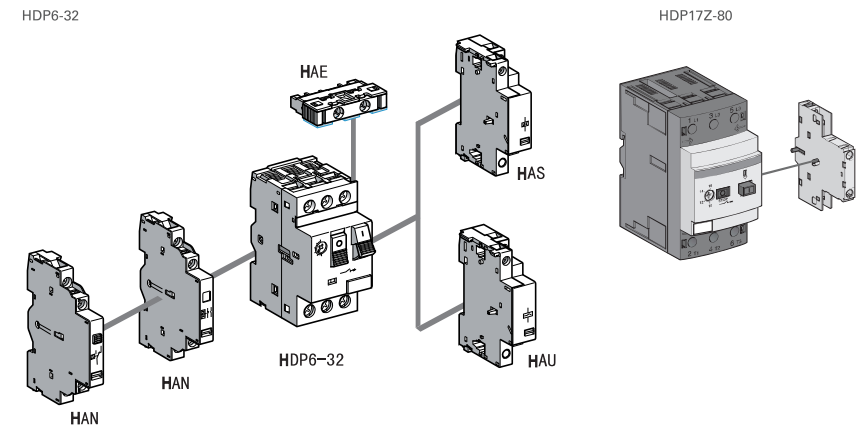
HDP6 Motor Circuit Breakers

Standard: IEC60947-4



Technical parameters		
Motor Circuit Breakers	HDP6-32	HDP17Z-80
Operation mode	Button operated	
Frame current	32A	80A
Rated impulse withstand voltage	6000V	
Maximum rated operating voltage	690V	
Rated insulation voltage	400/690V	
Rated operating frequency	50/60Hz	
Trip class	10A	
Fastening torque	1.7N * m	4 N * m
Mechanical durabilities	100,000	
Electrical durabilities AC-3 400V	100000	
Overload protection category	Thermal Overload Protection Open-phase Protection	
Short circuit protection	Yes	
Isolation function	Yes	
Temperature compensation function	Yes	
Accessories	Side Auxiliary Contact Top Auxiliary Contact Shunt release	Side Auxiliary Contact
Certification	CE, SEMKO	

Overview of accessories



Motor Management

HDS3 Magnetic Starters

Standard: IEC60947-4



Range presentation

HDS3 is Himel 3 series range of Magnetic Starter mainly used for AC 50/60Hz control system and maximum rated working voltage up to 660V. Direct start and stop of three-phase squirrel cage induction motor with maximum rated working current up to 95A under AC-3 using type, and overload protection is provided for the motor.

Features

- ◆ Frame size 38 with plastic housing
- ◆ Frame size 18/38/95 with metal housing
- ◆ IP54 Protection level
- ◆ With HDC3 series contactor and HDR3s series thermal relay

Online content



HDS3

Selection code

Range name	Frame size	Operation type	Rated current	Coil voltage	Coil frequency	Thermal relay	Housing
HDS3	38	B	09	M	7	P16	
HDS3	18: 18A 38: 38A 95: 95A	B: with push button	09: 9A 95: 95A	C: 36V F: 110V S: 127V M: 220/230V Q: 380/400V L: 415V X: 440V	7: 50/60Hz	P16: 0.1-0.16A 1P6: 1.0-1.6 A 93: 80-93A	Default: Plastic M: Metal

Technical parameters

Magnetic Starters	HDS3-18 Metal		HDS3-38 Metal		HDS3-95 Metal						
	HDS3-38 Plastic										
Rated operating current (Ie) AC-3	9A	12A	18A	25A	32A	38A	40A	50A	65A	80A	95A
Maximum motor power kW (AC-3,380V)	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
Horse power hp (AC-3,380V)	5.4	7.4	10.1	20.1	24.8	40.2	40.2	44.2	49.6	60.4	60.4
Mechanical endurance 10 thousand times	1200			1000			900			650	
Electrical endurance AC-3 10 thousand times	110			90			65				
Operation frequency AC-3 time/h	1200			600							
Rated insulaion voltage (Ui)	690V										
Rated operating voltage (Ue)	240V, 380V/400V, 440V, 660V										
Rated control circuit voltage (Uc)	36V, 110V, 127V, 220/230, 380/400, 415V, 440V										
Coil frequency	50/60Hz										
Operation type	With Pushbutton										
IP grade	IP54										
Certification	CE, SEMKO										
Standard	IEC 60947-4-1										
Environmental requirement	Altitude	2000m									
	Ambient temperature	-5°C~+40°C									
	Storage temperature	-25°C~+70°C									
	Installation position	The inclination to the vertical plane does not exceed ±5°									
	Rated withstand voltage	6kV									
Humidity requirement	The atmospheric relative humidity does not exceed 50% when the highest ambient temperature is +40°C. It is allowed to have a higher humidity under lower temperature, e.g. up to 90% at +25°C and the dew on the product due to the temperature change should be taken into consideration.										
	a. In a medium where is no explosion danger, and the medium has no place where can corrode metal and damage insulated gas and conductive dust;										
	b. In a place where has snow-proof equipment and lack of water vapour;										
c. In a place without significant shock and vibration.											

Motor Management

HDS3 Magnetic Starters

Standard: IEC60947-4



Order information

Motor power pe (KW, AC-3, 380V)	Rated current (A)	Frame size		Setting current (A)		AC Contactor type	Thermal overload relay type	Order reference with pushbutton		
		HDS3		Range	Code	HDC3	HDR3s			
0.37	9	HDS3-18 Metallic		0.1-0.16	P16	HDC3-9A	HDR3s-25	HDS318B09*7P16M /HDS338B09*7P16		
				0.16-0.25	P25			"HDS318B09*7P25M /HDS338B09*7P25"		
				0.25-0.4	P4			"HDS318B09*7P4M /HDS338B09*7P4"		
				0.4-0.63	P63			"HDS318B09*7P63M /HDS338B09*7P63"		
				0.63-1	1			"HDS318B09*701M /HDS338B09*701"		
				1-1.6	1P6			"HDS318B09*71P6M /HDS338B09*71P6"		
		0.75		HDS3-38 Plastic		1.6-2.5	2P5	HDC3-12A	HDR3s-3	"HDS318B09*72P5M /HDS338B09*72P5"
						2.5-4	4			"HDS318B09*704M /HDS338B09*704"
						4-6	6			"HDS318B09*706M /HDS338B09*706"
						5.5-8	8			"HDS318B09*708M /HDS338B09*708"
						7-10	10			"HDS318B12*710M /HDS338B12*710"
						9-13	13			"HDS318B18*713M /HDS338B18*713"
1.5		HDS3-38 Metallic		12-18	18	HDC3-25A	HDR3s-93	"HDS338B25*718M /HDS338B25*718"		
				17-25	25			"HDS338B25*725M /HDS338B25*725"		
				23-32	32			"HDS338B32*732M /HDS338B32*732"		
				30-40	38			"HDS338B38*740M /HDS338B38*740"		
				30-40	40			HDC3-40A	HDS395B40*740	
				37-50	50			HDC3-50A	HDS395B50*750	
2.2		HDS3-95 Metallic		48-65	65	HDC3-65A	HDS395B65*765			
				63-80	80	HDC3-80A	HDS395B80*780			
				80-93	93	HDC3-95A	HDS395B95*793			
3										
4	12									
5.5	18									
7.5	25									
11	32									
15	38									
18.5	40									
18.5	40									
22	50									
30	65									
37	80									
45	93A									



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