CDCH8s AC Contactor for Home Use

Selection Guide

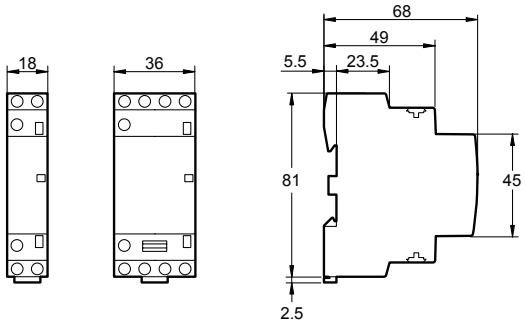
Model	Rated Current	Pole	Main Contact Type	Voltage Type
CDCH8s	16	2	20	N
	16：16A 20：20A 25：25A 40：40A 63：63A	2：2P 4：4P	20：2NO 02：2NC 11：1NO,1NC 10：1NO 01：1NC 03：3NC 40：4NO 04：4NC 22：2NO,2NC 31：3NO,1NC 30：3NO	N：220V-240V L：24V

Product Brief Introduction

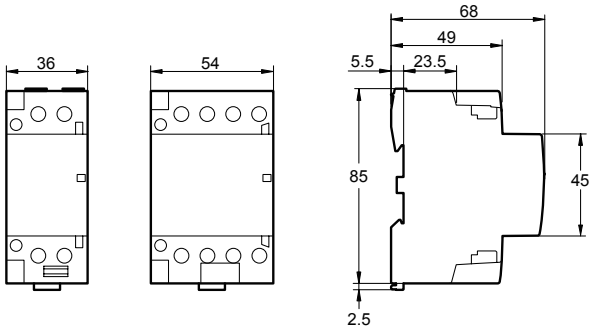
CDCH8s household AC contactor is mainly suitable for AC 50Hz, working voltage 250V/400V working current TC63A circuit, used to control household micro-inductance appliances such as microwave ovens, rice cookers, etc., can also be used for household motor appliances such as air conditioning, washing machines, refrigerators, etc. And because this product is safe and reliable, high service life, no noise during work, widely used in hospitals and hotels and other important places.

Technical Parameter											
Contactor Model		CDCH8s -16 2P	CDCH8s -16 4P	CDCH8s -20 2P	CDCH8s -20 4P	CDCH8s -25 2P	CDCH8s -25 4P	CDCH8s -40 2P	CDCH8s -40 4P	CDCH8s -63 2P	CDCH8s -63 4P
Main circuit characteristic											
Rated insulation voltage (Ui) V		500									
Convention heating current (Ith) A		25						63			
Rated operating current (Ie) A AC-7a		16		20		25		40		63	
	AC-7b	6		7		8.5		15		20	
Electrical life Times		100000									
Rated operating frequency Times / Hr	AC-7a	360									
	AC-7b	360		180		180		120		90	
Ability to make and break A	AC-7a	1.05Ie									
	AC-7b	6Ie									
Short-time withstand current A		8Ie (AC-7b) /10S									
Coil Control Supply Voltage (Us) V		AC24V AC220-240V									
Control loop voltage allowed V	actuation	85%-110%Us									
	Release	20%-75%Us									
Coil Power VA	start	9.2	34	9.2	34	9.2	34	34	53	34	53
	holding	2.7	4.6	2.7	4.6	2.7	4.6	4.6	6.5	4.6	6.5
Working Power W		1.2	1.6	1.2	1.6	1.2	1.6	1.6	2.1	1.6	2.1
Installation		A spacer (CDCH81S) should be installed on both sides of the contactor to facilitate heat dissipation.									
Indication Light		There is a signal indicator on the front of the contactor, red; Coil on									
Standard		IEC61095/GB/T17885									
Certification		CCC									

Outline and Installation Dimension (mm)



CDCH8s 16/25A



CDCH8s 40/63A

CDCH8s AC Contactor for Home Use

Selection Table

Product			CDCH8s AC Contactor for Home Use					
Light source type	Unit power and capacity of power factor compensation capacitors		The maximum number of lamps and the maximum power output of the single phase circuit					
			16 A		25 A		40 A	
Ordinary incandescent lamp, low pressure halogen lamp, replacement mercury lamp (no ballast)								
	40 W		38	1550W TO 2000W	57	2300W TO 2850W	115	4600W TO 5250W
	60 W		30		45		85	
	75 W		25		38		70	
	100 W		19		28		50	
	150 W		12		18		35	
	200 W		10		14		26	
	300 W		7	2100W	10	3000W	18	5500W TO 6000W
	500 W		4		6		10	
	1000 W		2		3		6	
	1500 W		1		2		4	
Electronic low voltage 12V or 24V halogen lamp								
Distributing inductance transformer	20 W		15	300W TO 600W	23	450W TO 900W	42	850W TO 1950W
	50 W		10		15		27	
	75 W		8		12		23	
	100 W		6		8		18	
Distribution transformer	20 W		62	1250W TO 1600W	90	1850W TO 2250W	182	3650W TO 4200W
	50 W		25		39		76	
	75 W		20		28		53	
	100 W		15		22		42	
Fluorescent lamp with starter and inductive ballast								
Single pipe without compensation (1)	15 W		22	330W TO 850W	30	450W TO 1200W	70	1050W TO 2400W
	18 W		22		30		70	
	20 W		22		30		70	
	36 W		20		28		60	
	40 W		20		28		60	
	58 W		13		17		35	
	65 W		13		17		35	
	80 W		10		15		30	
	115 W		7		10		20	
Single-pipe parallel compensation (2)	15 W	5 μF	15	200W TO 800W	20	300W TO 1200W	40	600W TO 2400W
	18 W	5 μF	15		20		40	
	20 W	5 μF	15		20		40	
	36 W	5 μF	15		20		40	
	40 W	5 μF	15		20		40	
	58 W	7 μF	10		15		30	
	65 W	7 μF	10		15		30	
	80 W	7 μF	10		15		30	
	115 W	16 μF	5		7		14	
2 or 4 tape series compensation	2 x 18 W		30	1100W TO 1500W	46	1650W TO 2400W	80	2900W TO 3800W
	4 x 18 W		16		24		44	
	2 x 36 W		16		24		44	
	2 x 58 W		10		16		27	
	2 x 65 W		10		16		27	
	2 x 80 W		9		13		22	
	2 x 115 W		6		10		16	

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Product			CDCH8s AC Contactor for Home Use					
	Unit power and capacity of power factor compensation capacitors		The maximum number of lamps and the maximum power output of the single phase circuit					
			16 A		25 A		40 A	
Fluorescent lamp with electronic ballast								
1 tube or 2 tubes	18 W		74	1300W TO 1400W	111	2000W TO 2200W	222	4000W TO 4400W
	36 W		38		58		117	
	58 W		25		37		74	
	2 x 18 W		36		55		111	
	2 x 36 W		20		30		60	
	2 x 58 W		12		19		38	
Compact fluorescent lamps								
Equipped with external electronic ballast 096 Equipped with integrated electronic ballast (Replace incandescent lamp)	5 W		210	1050W TO 1300W	330	1650W TO 2000W	670	3350W TO 4000W
	7 W		150		222		478	
	9 W		122		194		383	
	11 W		104		163		327	
	18 W		66		105		216	
	26 W		50		76		163	
	5 W		160	800W TO 900W	230	1150W TO 1300W	470	2350W TO 2600W
	7 W		114		164		335	
	9 W		94		133		266	
	11 W		78		109		222	
	18 W		48		69		138	
	26 W		34		50		100	
High-pressure mercury lamps with inductance ballasts without triggers replace high-pressure sodium lamps with inductance ballasts and triggers (3)								
No compensation (1)	50 W		15	750W TO 1400W	20	1000W TO 1600W	34	1700W TO 2800W
	80 W		10		15		27	
	125 / 110 W(3)		8		10		20	
	250 / 220 W(3)		4		6		10	
	400 / 350 W(3)		2		4		6	
	700 W		1		2		4	
With parallel compensation (2)	50 W	7 µF	10	500W TO 1400W	15	750W TO 1600W	28	1400W TO 3500W
	80 W	8 µF	9		13		25	
	125 / 110 W(3)	10 µF	9		10		20	
	250 / 220 W(3)	18 µF	4		6		11	
	400 / 350 W(3)	25 µF	3		4		8	
	700 W	40 µF	2		2		5	
	1000 W	60 µF	0		1		3	
Low pressure sodium lamp with inductive ballast and external trigger								
No compensation (1)	35 W		5	270W TO 360W	9	320W TO 720W	14	500W TO 1100W
	55 W		5		9		14	
	90 W		3		6		9	
	135 W		2		4		6	
	180 W		2		4		6	
With parallel compensation (2)	35 W	20 µF	3	100W TO 180W	5	175W TO 360W	10	350W TO 720W
	55 W	20 µF	3		5		10	
	90 W	26 µF	2		4		8	
	135 W	40 µF	1		2		5	
	180 W	45 µF	1		2			

CDCH8s AC Contactor for Home Use

Product			CDCH8s AC contactor for Home Use					
Light source type	Unit power and capacity of power factor compensation capacitors		The maximum number of lamps and the maximum power output of the single phase circuit					
			16 A		25 A		40 A	
High pressure sodium lamp metal halide								
With inductive ballast and external trigger 35W, no compensation (1)	35 W		16	600W	24	850W TO 1200W	42	1450W TO 2000W
	70 W		8		12		20	
	150 W		4		7		13	
	250 W		2		4		8	
	400 W		1		3		5	
	1000 W		0		1		2	
With inductive ballast and external trigger, with parallel compensation (2)	35 W	6 μF	12	450W TO 1000W	18	650W TO 2000W	31	1100W TO 4000W
	70 W	12 μF	6		9		16	
	150 W	20 μF	4		6		10	
	250 W	32 μF	3		4		7	
	400 W	45 μF	2		3		5	
	1000 W	60 μF	1		2		3	
	2000 W	85 μF	0		1		2	
Equipped with electronic ballast	35 W		24	850W TO 1350W	38	1350W TO 2200W	68	2400W TO 4000W
	75 W		18		29		51	
	150 W		9		14		26	

(1) Uncompensated inductive ballast circuits require current consumption of twice the power output of each set of lamps, so the number of such circuits with the same current band is limited.

(2) The total capacitance of the parallel power factor compensation capacitor limits the number of lamps controlled by a contactor. The limit values for the total capacitance of the sub-circuits of standard contactors with power ratings of 16A, 25A, 40A and 63A cannot be exceeded by corresponding values of 75 μF, 100 μF, 200 μF and 300 μF. If the value of the electrical capacity is different from the value in the table, the maximum number of lamps that can be connected is allowed to be calculated according to the electrical capacity limit value.

(3) High-pressure mercury lamps with power of 120W, 250W and 400W without trigger will gradually replace the corresponding power of 110W, 220W and 350W

CDCH8s Ac Contactor for Home Use

Heat Application

The choice of contactor capacity depends on the load capacity and the number of operations per day.

230 V heat		
Heating Type	Max Power	
Operation Times Each Day	25 A	40 A
25	5.4 kW	8.6 kW
50	5.4 kW	8.6 kW
75	4.6 kW	7.4 kW
100	4 kW	6 kW
250	2.5 kW	3.8 kW
500	1.7 kW	2.7 kW
400 V heat		
25	16 kW	26 kW
50	16 kW	26 kW
75	14 kW	22 kW
100	11 kW	17 kW
250	5 kW	8 kW
500	3.5 kW	6 kW

Mini Motor Appliance

The choice of contactor capacity depends on the capacity of the load.

Single-phase asynchronous motor with capacitor		
Mini Motor Application Type	Max Power	
Voltage	25 A	40 A
230 V	1.4	2.5
Three-phase induction motor		
400 V	4	7.5
Common Motor		
230 V	0.9	1.4

Load type characteristics

The IEC 61095 standard is applicable to civil and similar contactors. Unlike the IEC 60947.4 standard (for industrial applications), it also specifies a number of special requirements for the safety of personnel and equipment.

Apply	Industry：IEC 60947.4	Civilian：IEC 61095
Motor	AC3	AC7b
Heat	AC1	AC7a
Illumination	AC5a 和 b	AC5a 和 b