

Ev5N Series

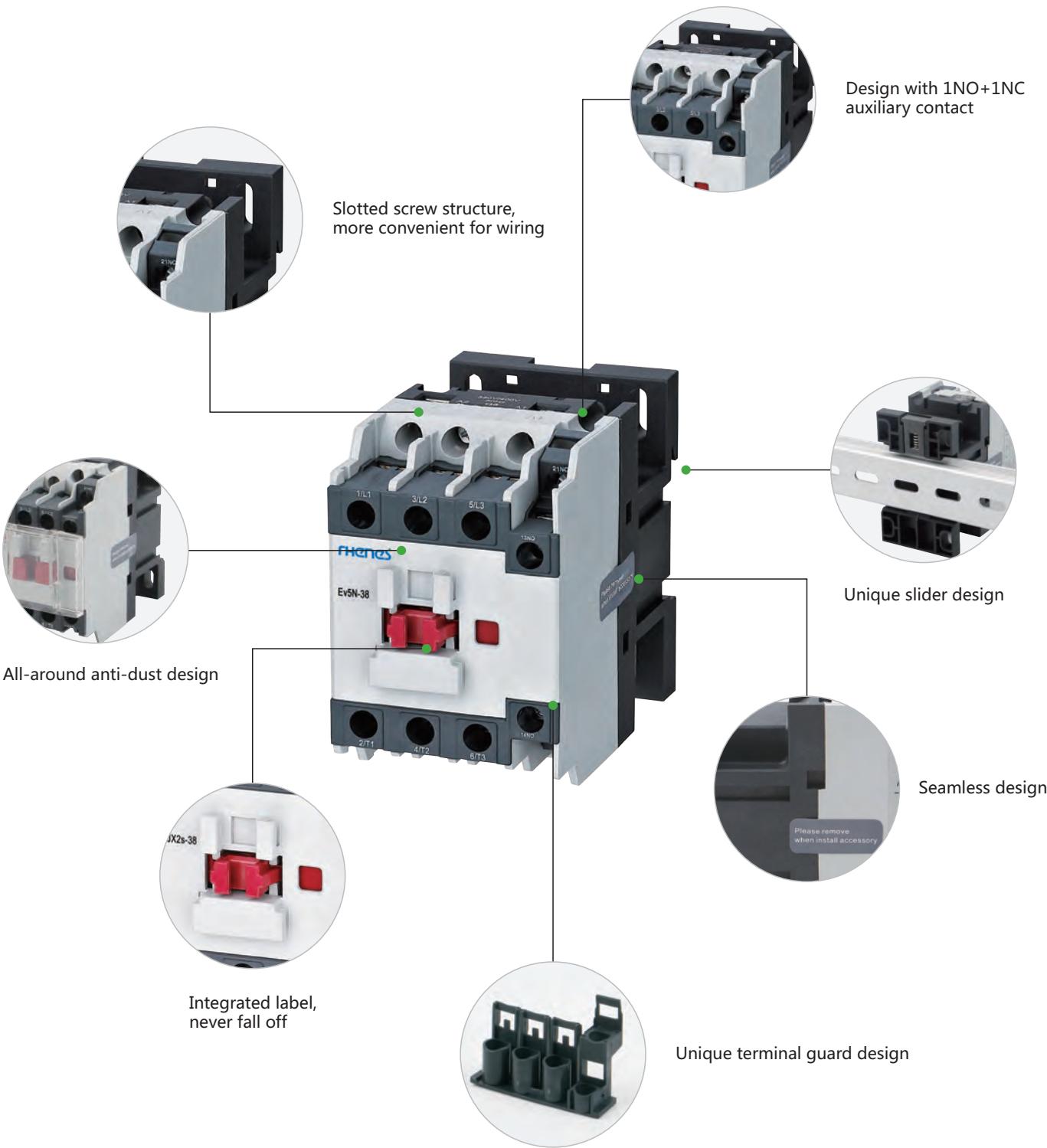
AC Contactor



- More auxiliary contacts, meet various application requirements
- Suitable for larger voltage fluctuation to ensure the stable operation of the equipment
- Super environment adaptability, can be reliable operation with extreme environment.

Ev5N AC Contactor

Product Structure Analysis Diagram



Product Overview

Ev5N series AC Contactor with novel appearance and compact structure is suitable for using starting & controlling the AC motor frequently, switching on and off the circuit at a long distance. It is used in combination with thermal relay to compose a magnetic motor starter.

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

Specifications

- Rated operation current(Ie): 9-95A ;
- Rated operation voltage(Ue): 220V~690V ;
- Rated insulation voltage: 690V ;
- Poles: 3P ;
- Installation: Din rail and screw installation

Operating and Installation Conditions

Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, CCC, TUV
Protection degree	Ev5N-09~38为IP20; Ev5N-40~95为IP10
Ambient temperature	limit of temperature: -35℃~+70℃, normal temperature: -5℃~+40℃ , The average no more than +35℃ within 24 hours. If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitude	≤2000m
Ambient temperature	The maximum temperature of 70 degrees, the air relative humidity not exceed 50%, under lower temperature can allow for higher relative humidity. If the temperature is 20℃, the air relative humidity could up to 90%, Special measures should be taken for occasional condensation due to humidity changes.
Installation position	Inclination between installation surface and vertical surface should not exceed ±5°
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.

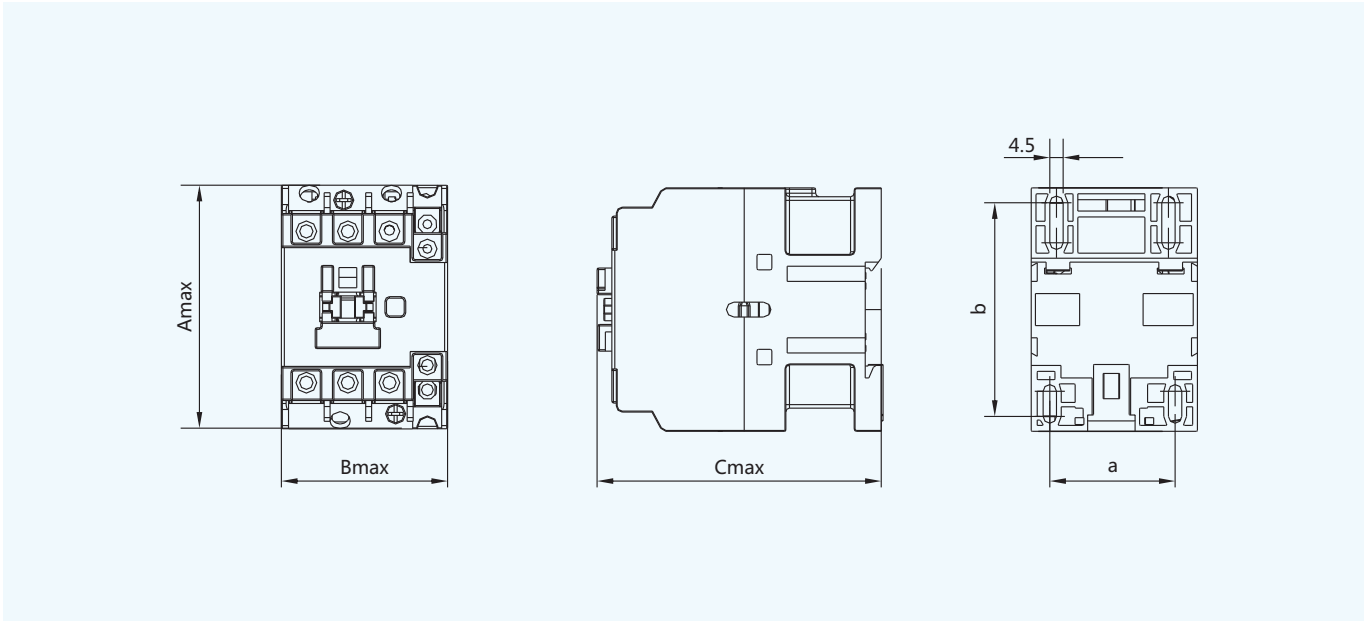
Specifications

Ev5N Specifications														
Appearance														
Type			Ev5N-09	Ev5N-12	Ev5N-18	Ev5N-25	Ev5N-32	Ev5N-38	Ev5N-40	Ev5N-50	Ev5N-65	Ev5N-80	Ev5N-95	
Main circuit characteristic														
Poles			3P											
Rated insulation voltage(Ui)		V	690											
Rated operating voltage(Ue)		V	380/400, 660/690											
Rated thermal current(Ith) , AC-1			20	20	32	40	50	50	60	80	80	125	125	
Rated operation current(Ie)	AC-3,380/400V	A	9	12	18	25	32	38	40	50	65	80	95	
	AC-3,660/690V	A	6.6	8.9	12	18	22	22	34	39	42	49	49	
	AC-4,380/400V	A	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44	
	AC-4,660/690V	A	1.5	2	3.8	4.4	7.5	8.9	9	12	14	17.3	21.3	
Rated operational power(Pe)	AC-3,380/400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45	
	AC-3,660/690V	kW	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45	
	AC-4,380/400V	kW	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22	
	AC-4,660/690V	kW	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5	
Mechanical life			1200			1000			900			650		
Electrical life	AC-3	10000 times	110						90			65		
	AC-4		22			22			17			11		
Frequency of operation	AC-3	times/hour	1200						600					
	AC-4		300						300					
Connecting capability of main circuit terminal														
Flexible wire	1 wire	mm²	1...4			1.5...6			2.5...25			4...50		
No terminal	2 wire	mm²	1...4			1.5...6			2.5...16			4...25		
Flexible wire	1 wire	mm²	1...4			1...6			2.5...25			4...50		
With terminals	2 wire	mm²	1...2.5			1...4			2.5...10			4...16		
Hard wire	1 wire	mm²	1...4			1.5...6		1.5...10		2.5...25			4...50	
No terminal	2 wire	mm²	1...4			1.5...			2.5...10			4...25		
Fastening torque		N·m	1.2			1.8			5			9		
Coil														
Rated control 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											
Allowed control circuit voltage(Us)	Operation	V	Installation inclination angle ±22.5°: 85%~110%Us ; Installation inclination angle±5°: 70%~120%											
	Release	V	Installation inclination angle ±22.5°: 20%~75%Us ; Installation inclination angle±5°: 20%~65%											
Power consumption of coil	Actuation	VA	60			70			200			200		
	Keep	VA	6-9.5			6-9.5			15-20			15-20		
	Consumption	W	1-3			1-3			6-10			6-10		
Auxiliary contacts														
Auxiliary contacts specification		A							11					
Rated thermal current (Ith)		A							10					
Rated operating voltage (Ue)	AC	V							380					
	DC	V							220					
Rated control capacit	AC-15	VA							360					
	DC-13	W							33					
Certification			CCC, CE, TUV, CB											

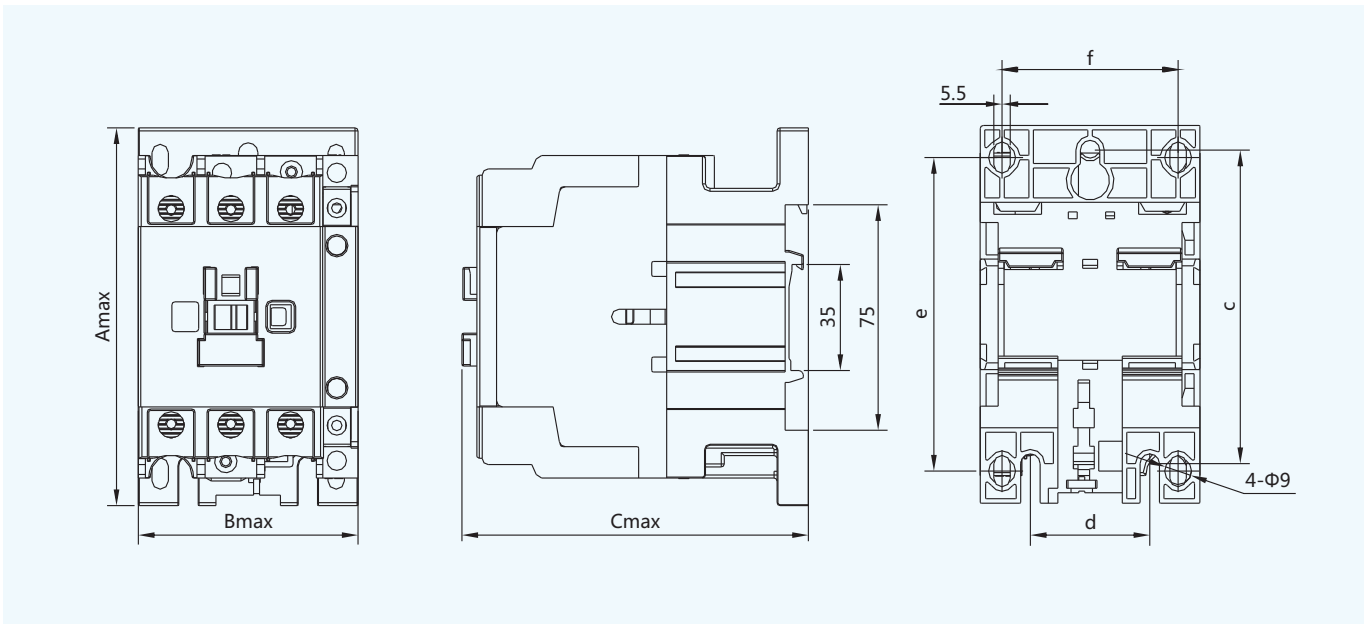
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Overall and Mounting

Ev5N-09~38



Ev5N-40~95



Type	Amax	Bmax	Cmax	a	b	c	d	e	f
Ev5N-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
Ev5N-25, 32, 38	83	56.5	97	40	50/70	-	-	-	-
Ev5N-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
Ev5N-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67