









Ev5N & Ev5R-D Series

Contactor & Thermal Relays

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

Characteristic

- ◆ 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.

Operating and Installation Conditions

Туре	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	Ev5N-09~38 IP20; Ev5N-40~95 IP10
Ambient temperature	Limit of temperature: -35 $^\circ$ C ~+70 $^\circ$ C , normal temperature: -5 $^\circ$ C ~+40 $^\circ$ C , The average no more than +350 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 $^{\circ}$, 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 $\pm 5^{\circ}$
Shock vibration	Products should be installed and used without significant shake, shock and vibration place.





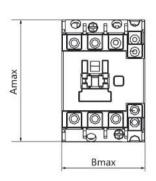
Product Overview

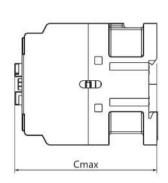
	Туре		Ev5N-09	Ev5N-12	Ev5N-18	Ev5N-25	Ev5N-32	Ev5N-38	Ev5N-40	Ev5N-50	Ev5N-65	Ev5N-80	Ev5N-
Main circuit cha	racteristic						,						
Poles								3P					
Rated insulation voltage(Ui)		V						690					
Rated operating voltage(Ue)		V	380/400, 660/690										
Rated thermal c	urrent(Ith),AC-	1	20	20	32	40	50	50	60	80	80	125	12
Rated operation current(le)	AC-3,380/400V	Α	9	12	18	25	32	38	40	50	65	80	95
	AC-3,660/690V	А	6.6	8.9	12	18	22	22	34	39	42	49	49
	AC-4,380/400V	Α	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
	AC-4,660/690V	Α	1.5	2	3.8	4.4	7.5	8.9	9	12	24	17.3	21.
	AC-3,380/400V	kW	4	5.5	7.5	11	15	18.5	18.5	22	30	37	45
Rated	AC-3,660/690V	kW	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45
operational power(Pe)	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.
Mechanical life	I is		1200				10	00	900			650	
	AC-3	10000 times	110						90			65	
Electrical life	AC-4	unes	22				2	2	17			11	
Frequency	AC-3	times/	1200				600						
of operation	AC-4	hour	300				300						
Connecting cap	ability of main o	ircuit te	rminal										
Flexible wire	1 wire	mm ²	14			1.56			2.525			450	
No terminal	2 wire	mm ²		14		1.56			2.516			425	
Flexible wire	1 wire	mm ²	14		16			2.525			450		
With terminals	2 wire	mm ²	12.5		14		2.510			416			
Hard wire	1 wire	mm ²		14		1.56 1.510		2.525			450		
No terminal	2 wire	mm ²		14		1.5		2.510			425		
Fastening torqu	e	N.m	1.2			1.8			5			9	
Coil			***										
Rated control 50Hz		V	24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440										
voltage(Us) 50Hz	50/60Hz	V		24, 36, 48, 110, 127, 220/230, 240, 380/400, 415, 440									
Allowed control	Operation	V	Installa	tion incli	nation an	gle ±22.5	°: 85%~1	10%Us; I	nstallatio	n inclinat	ion angle	±5°: 70%	~1209
circuit voltage(Us)	Release	V	Instal	lation inc	lination a	ngle ±22.	5°: 20%~	75%Us; I	nstallatio	n inclinat	ion angle	±5°: 20%	~65%
Power	Actuation	VA		60		70		200		200			
consumption	Keep	VA		6-9.5		6-9.5			15-20			15-20	
of coil	Consumption	W		1-3		1-3		6-10		6-10			
Auxiliary contac	ts					1							
Auxiliary contacts specification		А	11										
Rated thermal current (Ith)		Α	10										
Rated	AC	V		380									
operating voltage (Ue)	DC	V		220									
Rated control	AC-15	VA		360									
capacit	DC-13	W						33					
Certification							CCC	CE, TU	/ CB				

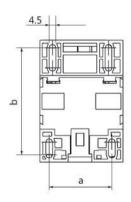
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Overall and Mounting

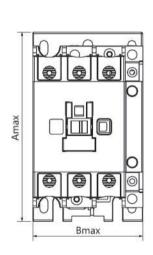
Ev5N-09~38

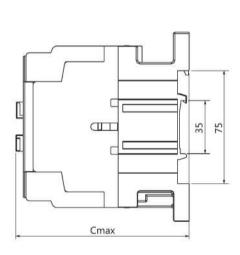


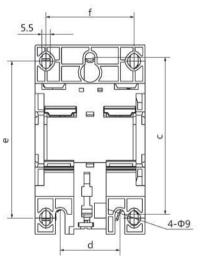




Ev5N-40~95







Туре	Amax	Bmax	Cmax	а	b	С	d	е	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		178	1883	-
Ev5N-40, 50, 65	127.5	74.5	117	<u>jr:</u>	121	105	40	100/110	59
Ev5N-80, 95	127.5	85.5	125.5	14	(4)	105	40	100/110	67