

Product Overview

EKC2 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 60947-4-1.

Type Designation

EK	C	2	-	25	11	-	24V
↓ ①	↓ ②	↓ ③		↓ ④	↓ ⑤		↓ ⑥
Code	Meaning			Code	Meaning		
①	Company code			④	Rated operating voltage (380V/400V, AC3): 9A,12A,18A,25A,32A,40A,50A,65A,80A,95A		
②	Contactor			⑤	Number of contacts 11: 3NO main contacts+1NO and 1NC auxiliary contact		
③	Design sequence NO.			⑥	Coil voltage: 24V,48V,110V,240V,415V		

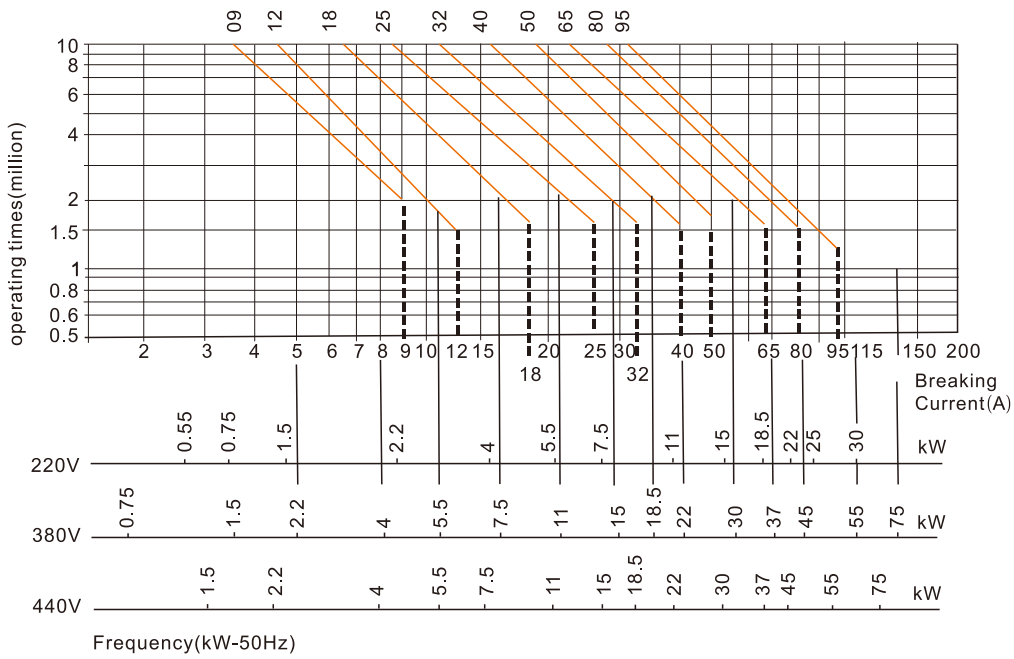
Operating and Installation Conditions

Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, TUV
Protection degree	EKC2-09~38: IP20
Ambient temperature	limit of temperature: -35°C~+70°C, normal temperature: -5°C~+40°C, The average no more than +35°C within 24 hours. If not in normal operating temperature range, please refer to "Instructions for abnormal environment"
Altitude	≤2000m
Ambient humidity	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°C, 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.

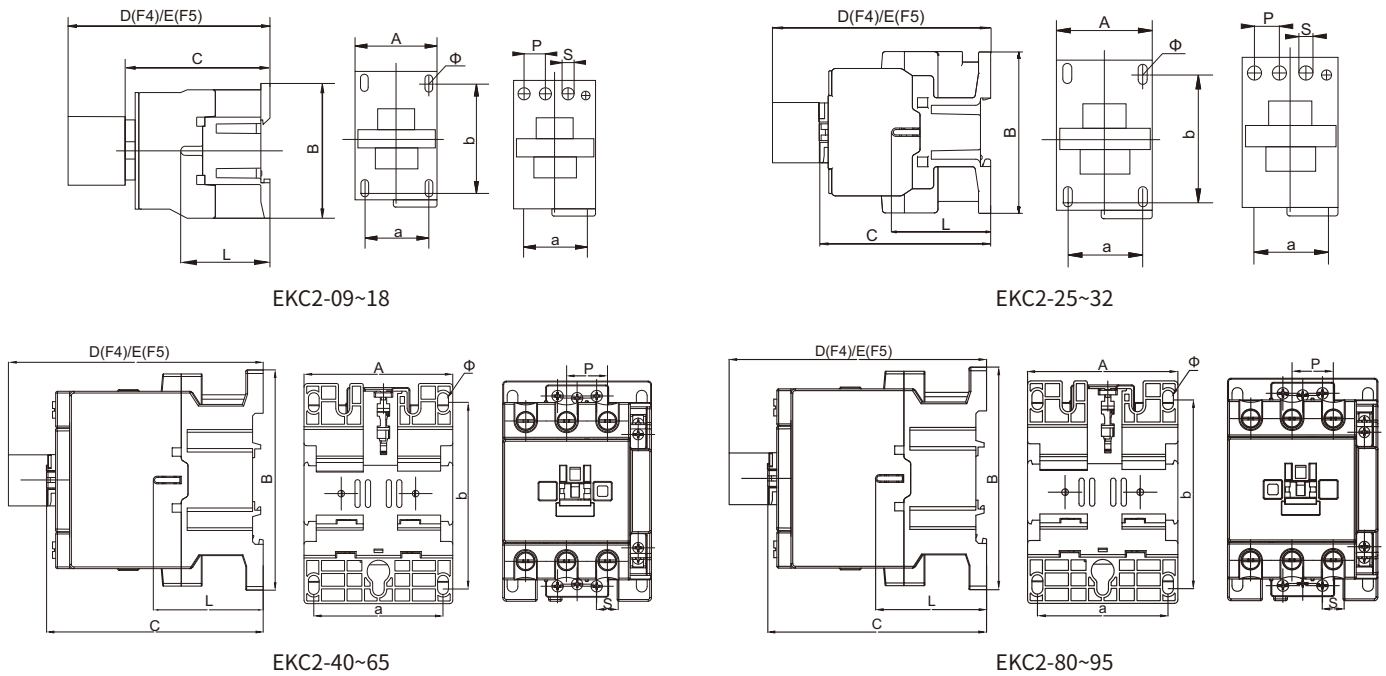
Technical Data

Type		EKC2-09	EKC2-12	EKC2-18	EKC2-25	EKC2-32	EKC2-40	EKC2-50	EKC2-65	EKC2-80	EKC2-95	
Main circuit characteristic												
Poles		3P										
Main contact		3NO										
Rated insulation voltage(Ui)(V)		690V										
Rated operating voltage(Ue)(V)		380/400V; 660/690V										
Rated thermal current(Ith), AC-1		20	20	32	40	50	60	80	80	125	125	
Rated operation current(Ie)(A)	AC-3, 380/400V	9	12	18	25	32	40	50	65	80	95	
	AC-3, 660/690V	6.6	8.9	12	18	22	34	39	42	49	49	
	AC-4, 380/400V	3.5	5	7.7	8.5	12	18.5	24	28	37	44	
	AC-4, 660/690V	1.5	2	3.8	4.4	7.5	9	12	14	17.3	21.3	
Rated operational power(Pe)(A)	AC-3, 380/400V	4	5.5	7.5	11	15	18.5	22	30	37	45	
	AC-3, 660/690V	5.5	7.5	10	15	18.5	30	33	37	45	45	
	AC-4, 380/400V	1.5	2.2	3.3	4	5.4	7.5	11	15	18.5	22	
	AC-4, 660/690V	1.1	1.5	3	3.7	5.5	7.5	10	11	15	18.5	
Mechanical life($\times 10^3$ times)		1200			1000			900			650	
Electrical life($\times 10^3$ times)	AC-3	110				90				65		
	AC-4	22				22	17			11		
Frequency of operation (time/h)	AC-3	1200				600						
	AC-4	300				300						
Control circuit characteristics												
Rated control voltage(Us)	50Hz	24V,48V,110V,240V,415V										
	50/60Hz	24V,48V,110V,240V,415V										
Allowed control circuit voltage	Operation	(85%~110%)Us										
	Release	(20%~75%)Us										
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	
Connecting capability of main circuit terminal												
Flexible wire No terminal	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	
Flexible wire With terminals	1 wire(mm ²)	1~4			1~6			2.5~25			4~50	
	2 wire(mm ²)	1~2.5			1~4			2.5~10			4~16	
Hard wire No terminal	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			2.5~10			4~25	
Fastening torque (N.m)		1.2			1.8			5			9	
Auxiliary contacts												
Built-in auxiliary contact		1NO+1NC										
Rated thermal current (Ith)		10A										
Rated operating voltage (Ue)	AC	380V										
	DC	220V										
Rated control capacity	AC-15	360VA										
	DC-13	33W										

Electric Life Curves



Dimension(mm)



Model	A Max	B Max	C Max	D Max	E Max	a	b	ϕ	L	P	S
EKC2-09~18	45	74.5	87	120	124	34.5	50/60	4.5	51	11	10.5
EKC2-25~32	56	87	98.6	132	136	40	61.5	4.5	59.3	14.2	13
EKC2-40~65	75	127	118	151.1	155	63.5	105	6	63.2	20	14
EKC2-80~95	86	126.5	126.5	158.5	162.5	74.5	105	6	63.2	23.5	17.5