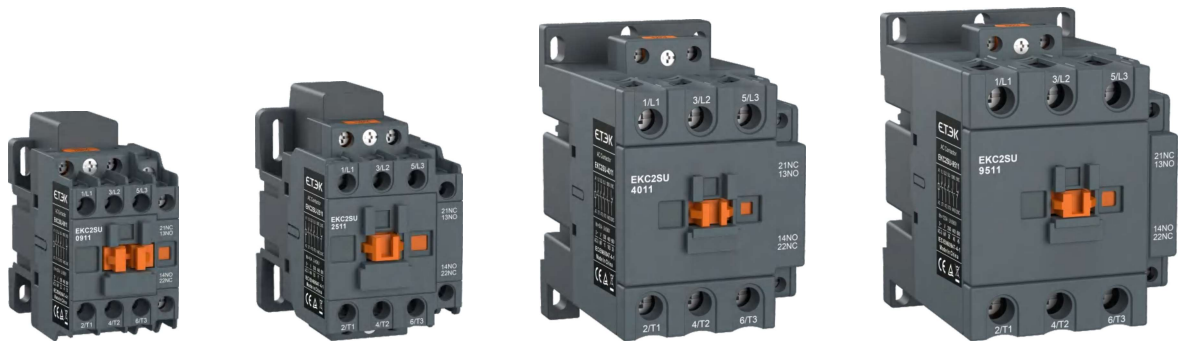




Product Overview

EKC2SU Series ac contactors are used for controlling 3-phase motor circuits up to 690V AC. These contactors are of the block type design with 3 main poles. Built-in 1NO+1NC auxiliary contact and surge suppression, resulting in installation time and cost savings.

Compared with contactors using external surge suppressors, contactor products using built-in surge suppressors will have more reliable performance and at the same time the surges are handled by the contactor itself and the surge never reaches the control circuit.

Type Designation

EK	C	2	SU	-	25	11	-	24V
↓	↓	↓	↓		↓	↓		↓
①	②	③	④		⑤	⑥		⑦

Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	Built-in surge suppressors

Code	Meaning
⑤	Rated operational current (380V/400V, AC3): 9A,12A,18A,25A,32A,40A,50A,65A,80A,95A
⑥	Number of contacts 11: 3NO main contacts+1NO and 1NC auxiliary contact
⑦	Coil voltage: 24V,36V,48V,110V,230V,380V,415V,440V

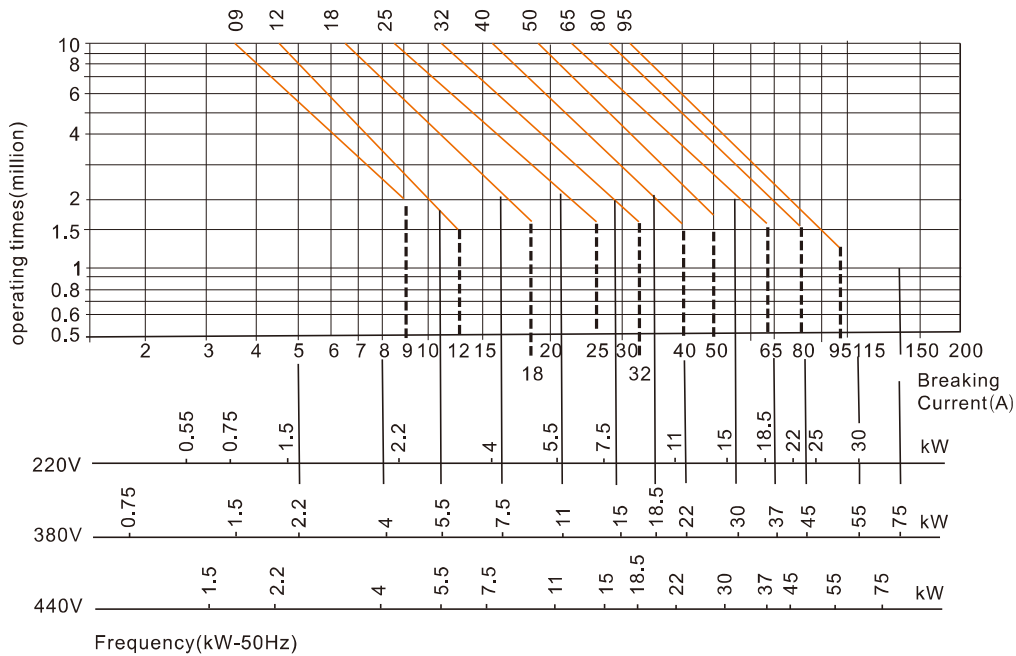
Description

Application	Remote making & breaking circuits
	Protect circuit from over-load when assembling with thermal over-load relay
	Frequent start-up and control of AC contactor
Electric value	AC50/60Hz, 690V, up to 95A
Utilization category	AC-3, AC-4
Altitude	≤2000m
Ambient temperature	-5°C~+40°C
Mounting category	III
Mounting conditions	Inclination between the mounting plane and the vertical plane should not exceed ±5°
Standard	IEC/EN 60947-4-1, IEC/EN 60947-5-1

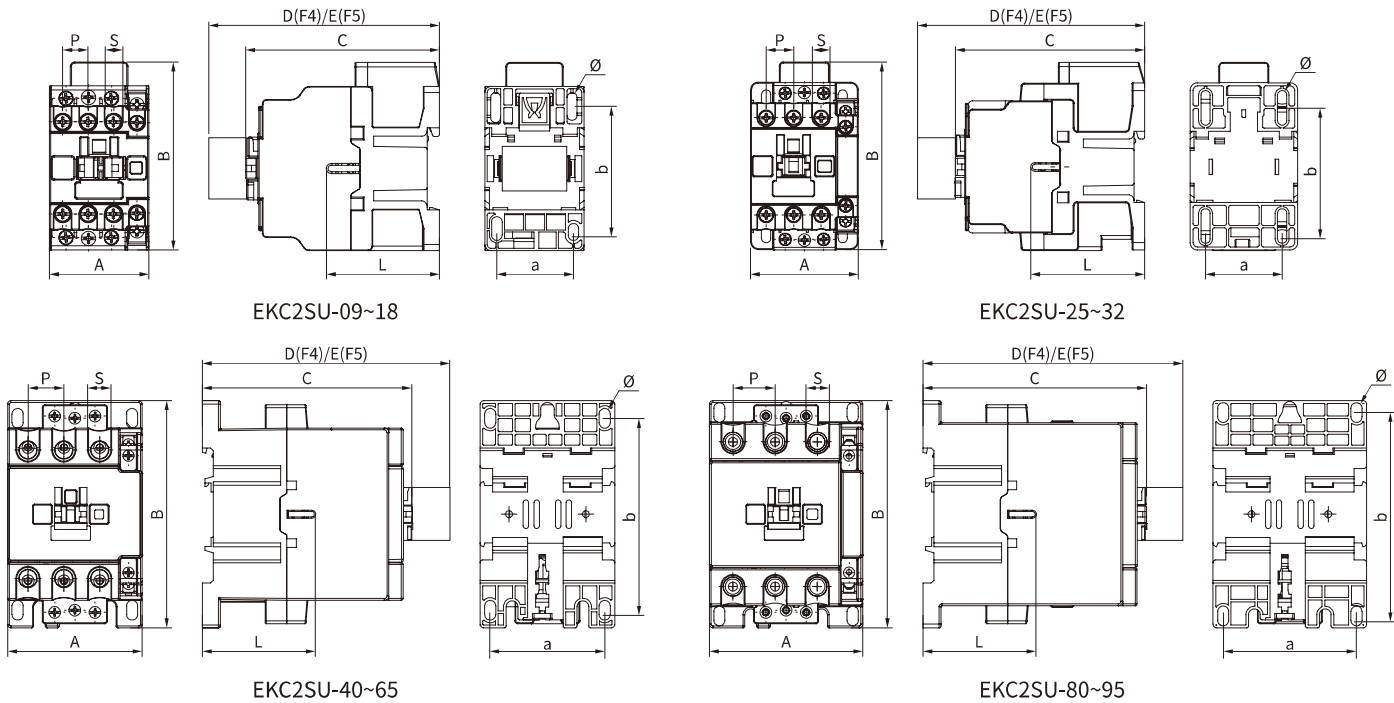
Technical Data

Type		EKC2SU-09	EKC2SU-12	EKC2SU-18	EKC2SU-25	EKC2SU-32	EKC2SU-40	EKC2SU-50	EKC2SU-65	EKC2SU-80	EKC2SU-95
Main circuit characteristic											
Poles		3P									
Main contact		3NO									
Rated insulation voltage(Ui)(V)		690V									
Rated operating voltage(Ue)(V)		AC220/230V; 380/400V; 660/690V									
Rated thermal current(Ith), AC-1		20	20	32	40	50	60	80	80	100	125
Rated operation current(Ie)(A)	AC-3, 220/230V	9	12	18	25	32	40	50	65	80	95
	AC-4, 220/230V	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	AC-3, 380/400V	9	12	18	25	32	40	50	65	80	95
	AC-4, 380/400V	3.5	5	7.7	8.5	12	18.5	24	28	37	44
	AC-3, 660/690V	6.6	8.9	12	18	22	34	39	42	49	49
	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, 220/230V	2.2	3	4	5.5	7.5	11	15	18.5	22	25
	AC-4, 220/230V	0.6	1.1	1.5	2.2	3	5.5	6	7.5	11	14
	AC-3, 380/400V	4	5.5	7.5	11	15	18.5	22	30	37	45
	AC-4, 380/400V	1.5	2.2	3.3	4	5.4	7.5	11	15	18.5	22
	AC-3, 660/690V	5.5	7.5	10	15	18.5	30	33	37	45	45
	AC-4, 660/690V	1.1	1.5	3	3.7	5.5	7.5	10	11	15	18.5
Mechanical life(×10 ⁵ times)		10	10	10	10	8	8	8	8	6	6
Electrical life (×10 ³ times)	AC-3	1000	1000	1000	1000	800	600	600	600	600	600
	AC-4	200	200	200	200	200	150	150	150	100	100
Frequency of operation (time/h)	AC-3	1200	1200	1200	1200	600	600	600	600	600	600
	AC-4	300	300	300	300	300	300	300	300	300	300
Control circuit characteristics											
Rated control voltage(Us)	50Hz	24V,36V,48V,110V,230V,380V,415V,440V									
	50/60Hz	24V,36V,48V,110V,230V,380V,415V,440V									
Allowed control circuit voltage	Operation	(85%~110%)Us									
	Release	(20%~75%)Us									
Power consumption of coil	Actuation(VA)	70	70	70	110	110	200	200	200	200	200
	Keep(VA)	9.5	9.5	9.5	11.4	11.4	38.8	38.8	38.8	38.8	38.8
	Consumption(W)	1-3	1-3	1-3	1-3	1-3	6-10	6-10	6-10	6-10	6-10
50/60Hz	Suction time(ms)	40	40	40	50	50	70	70	70	70	70
	Release time(ms)	130	130	130	150	150	170	170	170	170	170
Surge suppressors A1○—□— —○A2	RC type	AC/DC 24V,36V,48V,110V,250V,380V,415V,440V									
Connecting capability of main circuit terminal											
Flexible wire No terminal	1 wire(mm ²)	1~4	1~4	1~4	1.5~10	1.5~10	4~25	4~25	4~25	6~50	6~50
	2 wire(mm ²)	1~4	1~4	1~4	1.5~6	1.5~6	4~16	4~16	4~16	6~25	6~25
Flexible wire With terminals	1 wire(mm ²)	1~4	1~4	1~4	1~6	1~6	4~25	4~25	4~25	6~50	6~50
	2 wire(mm ²)	1~2.5	1~2.5	1~2.5	1~4	1~4	4~10	4~10	4~10	6~16	6~16
Hard wire No terminal	1 wire(mm ²)	1~4	1~4	1~4	1.5~6	1.5~6	4~25	4~25	4~25	6~50	6~50
	2 wire(mm ²)	1~4	1~4	1~4	1.5~6	1.5~6	4~10	4~10	4~10	6~25	6~25
Fastening torque (N.m)		0.8	0.8	0.8	1.2	1.2	3.5	3.5	3.5	4	4
Auxiliary contacts											
Bulit-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	Ø	L	P	S
EKC2SU-09~18	45	85	87	120	124	34.5	50/60	4.5	51	11	10.5
EKC2SU-25~32	56	98	98.6	132	136	40	61.5	4.5	59.3	14.2	13
EKC2SU-40~65	75	127	118	151.1	155	63.5	105	6	63.2	20	14
EKC2SU-80~95	86	126.5	126.5	158.5	162.5	74.5	105	6	63.2	23.5	17.5