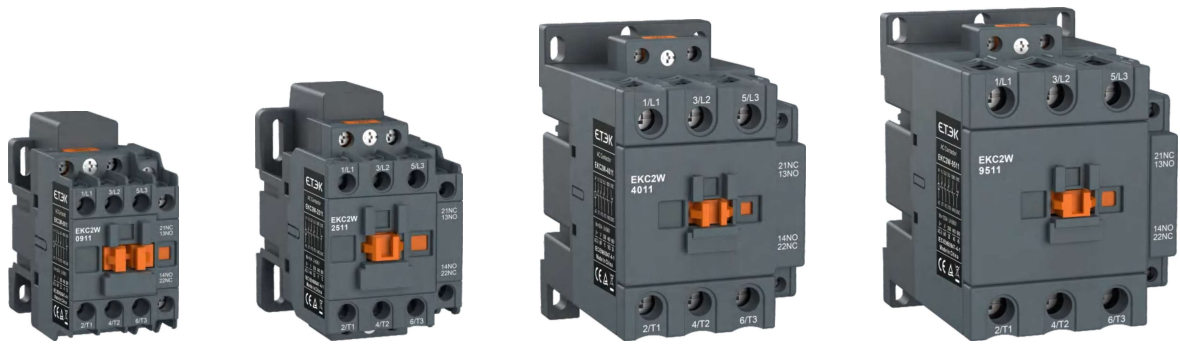




Product Overview

EKC2W Series wide voltage range contactors with AC/DC universal coil, are used for controlling 3-phase motors and power circuits up to 690 VAC and 250 VDC. These contactors are of the block type design with three main poles. Built-in 1NO+1NC auxiliary contact, resulting in installation time and cost savings.

- Wide control voltage range: AC/DC: 24~60V, 110~250V
- Can manage large control voltage variations: (85%~110%) Us
- Add-on auxiliary contact blocks for front or side mounting and a wide range of accessories.

Type Designation

EK	C	2	W	-	25	11	-	24~60V
↓	↓	↓	↓		↓	↓		↓
①	②	③	④		⑤	⑥		⑦

Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	Wide control voltage range

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: AC/DC 24~60V(9~95A); AC/DC 110~250V(9~95A)

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

AC/DC control supply	Type	EKC2W-09	EKC2W-12	EKC2W-18	EKC2W-25	EKC2W-32	EKC2W-40	EKC2W-50	EKC2W-65	EKC2W-80	EKC2W-95
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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($\times 10^6$ times)		10	10	10	10	8	8	8	8	6	6
Electrical life($\times 10^3$ 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	AC/DC: 24~60V, 110~250V									
	50/60Hz	AC/DC: 24~60V, 110~250V									
Allowed control circuit voltage	Operation	(85%~110%)Us									
	Release	(20%~75%)Us									
Power consumption of coil AC/DC	Actuation(VA)	≤ 130	≤ 130	≤ 130	≤ 130	≤ 130	≤ 300	≤ 300	≤ 300	≤ 300	≤ 300
	Keep(VA)	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2
	Consumption(W)	≤ 2	≤ 2	≤ 2	≤ 2	≤ 2	≤ 3	≤ 3	≤ 3	≤ 3	≤ 3
AC/DC24-60V	Suction time(ms)	≤ 120									
AC/DC110-250V	Release time(ms)	≤ 90									
Energy efficiency rating AC/DC		Level 2									

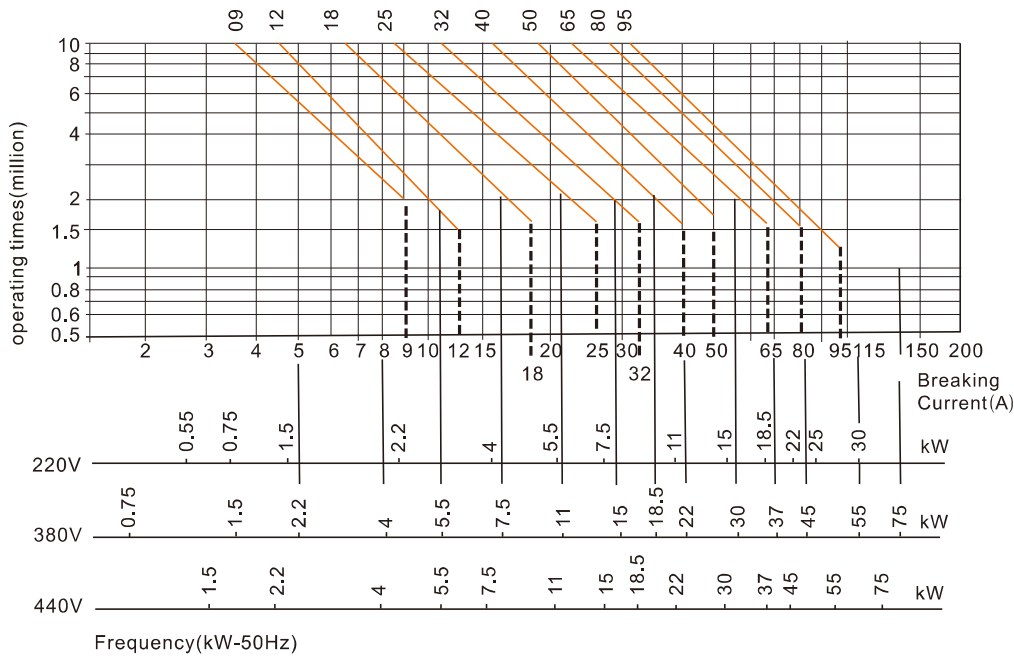
Connecting capability of main circuit terminal

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

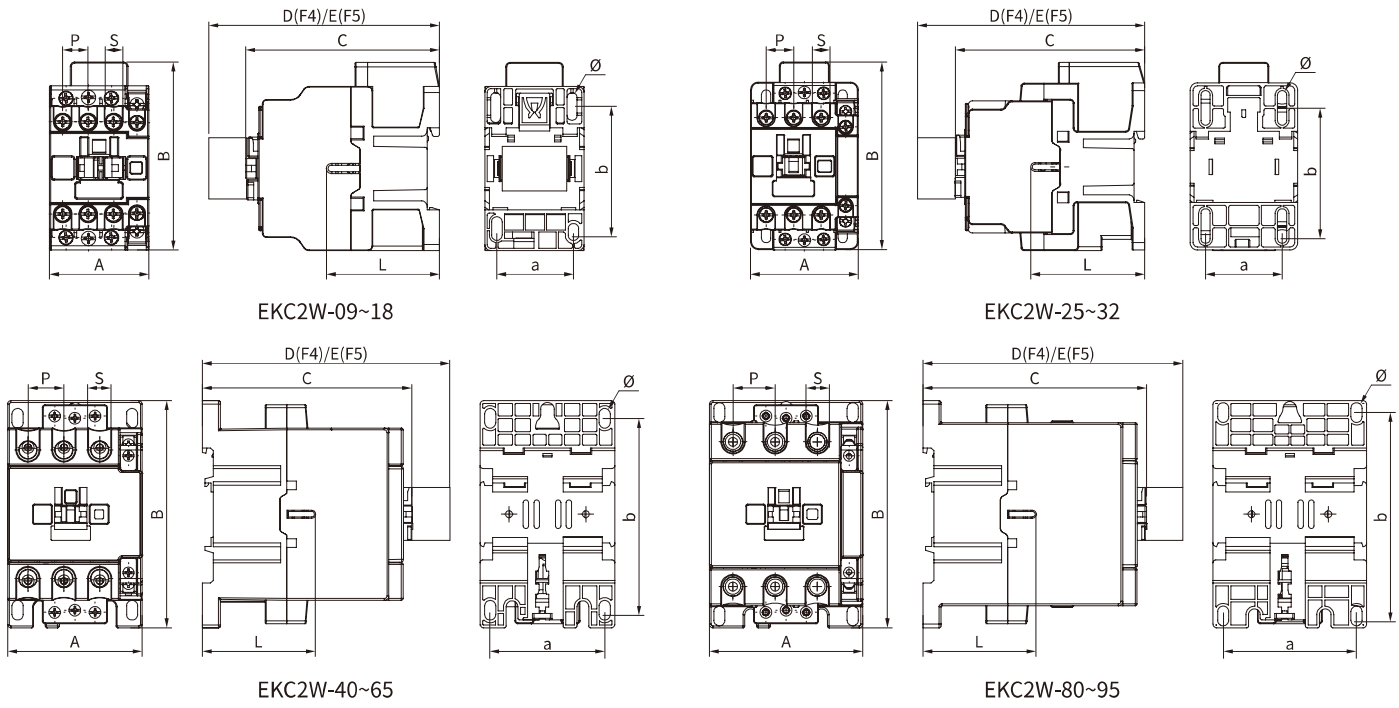
Auxiliary contacts

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	Ø	L	P	S
EKC2W-09~18	45	85	87	120	124	34.5	50/60	4.5	51	11	10.5
EKC2W-25~32	56	98	98.6	132	136	40	61.5	4.5	59.3	14.2	13
EKC2W-40~65	75	127	118	151.1	155	63.5	105	6	63.2	20	14
EKC2W-80~95	86	126.5	126.5	158.5	162.5	74.5	105	6	63.2	23.5	17.5