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INDUSTRIAL CONTROL ELECTRIC

» *Always for your safety*



**ZHEJIANG ETEK
ELECTRICAL TECHNOLOGY CO.,LTD.**

Ver. 2025.1

Always for your safety



COMPANY INTRODUCTION

Zhejiang ETEK Electrical Technology Co., Ltd. is a professional manufacturing company specializing in the research, development, production, and sales of low-voltage electrical appliances. Established in 2011 and headquartered in Wenzhou, Zhejiang Province, ETEK Electric operates two modern manufacturing bases in Wenzhou and Wuhu, covering an area of 40,000 square meters. The company employs over 500 staff, including more than 50 R&D and technical professionals.

ETEK Electric has multiple production workshops for mold design, parts manufacturing, welding, and assembly. Additionally, it operates multiple automated production lines for MCB and RCCB. Its product portfolio includes MCB, RCCB, RCBO, AFDD, MCCB, ACB, EV Chargers, and Photovoltaic DC products, which are widely used in residential, commercial, and industrial sectors.

ETEK Electric has established its own low-voltage electrical testing center, where testing projects meet international IEC standards. The company has obtained ISO9001, ISO14001, and ISO45001 certifications, and its products are certified by international standards such as CB, TUV, VDE, CE, RoHS, among others.

With over 100 national patents, ETEK Electric continues to master core technologies in circuit breakers and remains committed to building its independent brand. The "ETEK" trademark is registered in over 80 countries, with products exported to more than 100 regions, including Europe, South America, the Middle East, Africa, and Southeast Asia.

Additionally, ETEK Electric supports OEM, ODM, OBM, SKD, CKD, and other business cooperation models, offering a complete suite of services including market cultivation, technical training, and assistance with factory construction.

Looking to the future, ETEK Electric is committed to becoming a globally renowned manufacturer in the power distribution and electrical industry, safeguarding the power safety of its customers around the world and contributing to the development of green and digital energy.



Wenzhou Factory



Wuhu Factory

Corporate Culture



Values

- Integrity
- Innovation
- Focus
- Win-win



Vision

Dedicated to becoming a globally renowned manufacturer in the power distribution equipment industry.



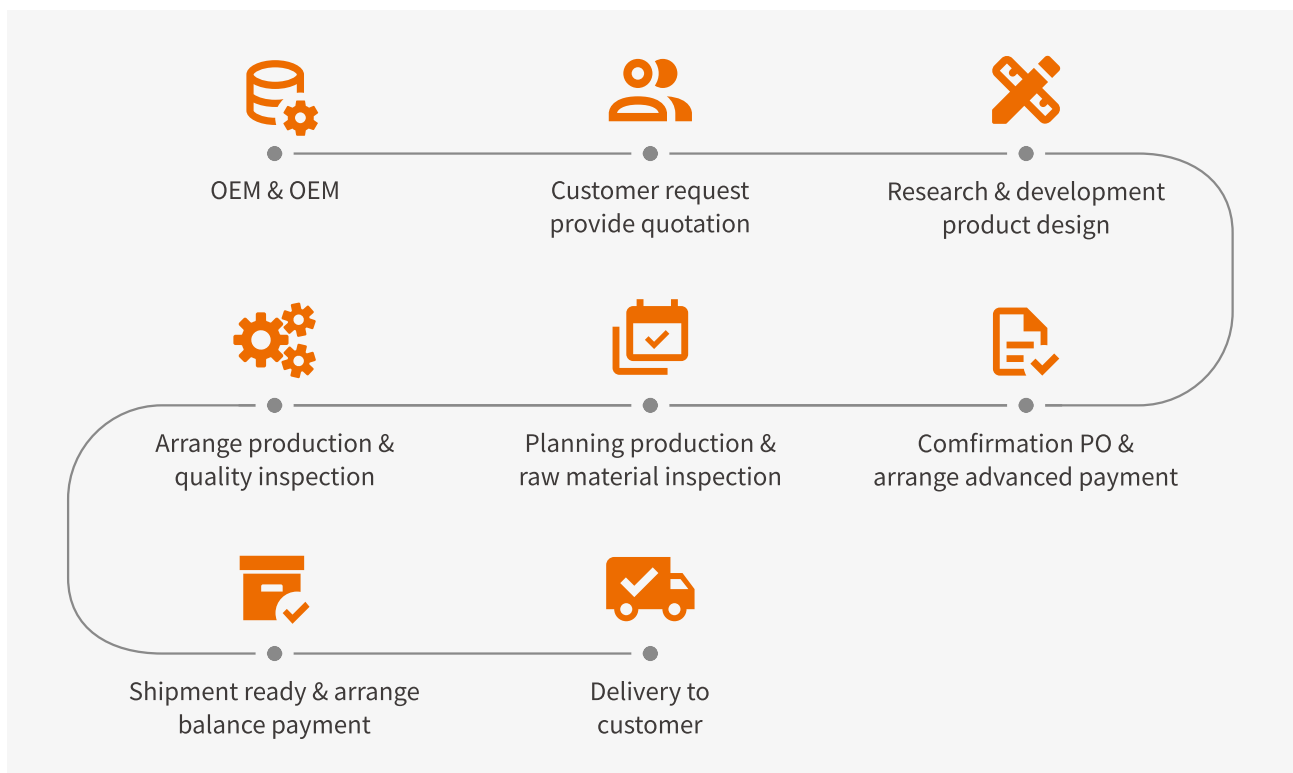
Mission

Manufacturing safer and smarter distribution electrical products to support the development of green and digital energy

WORKSHOPS



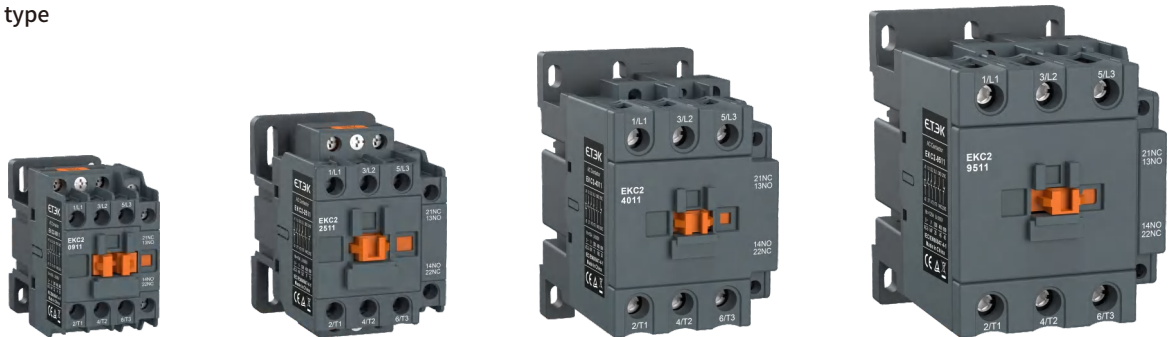
OEM & ODM BUSINESS



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Standard type



Economy type



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

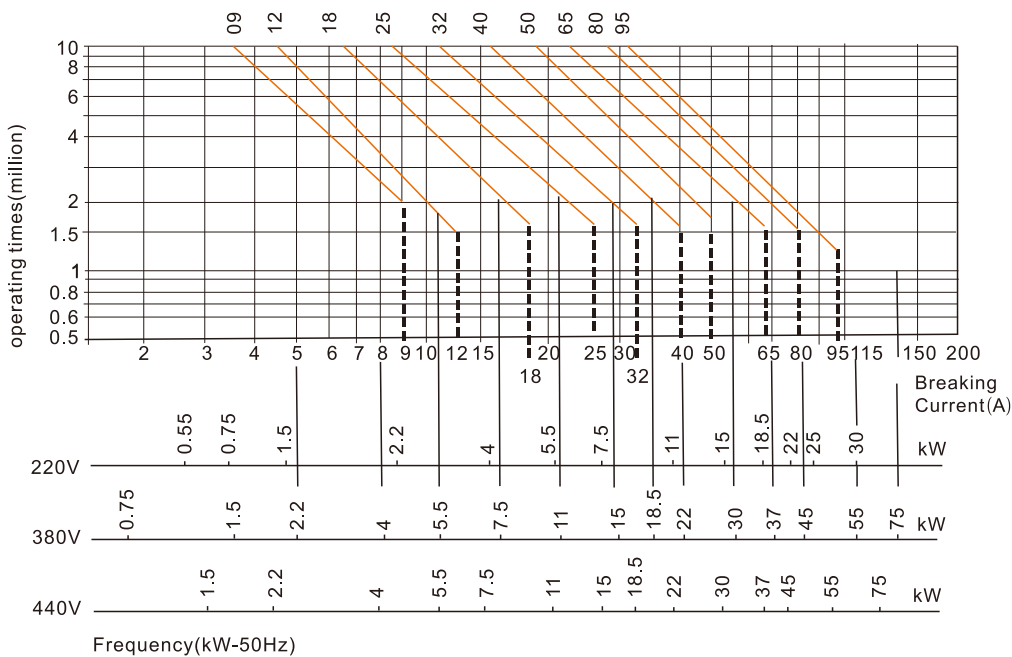
Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.

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

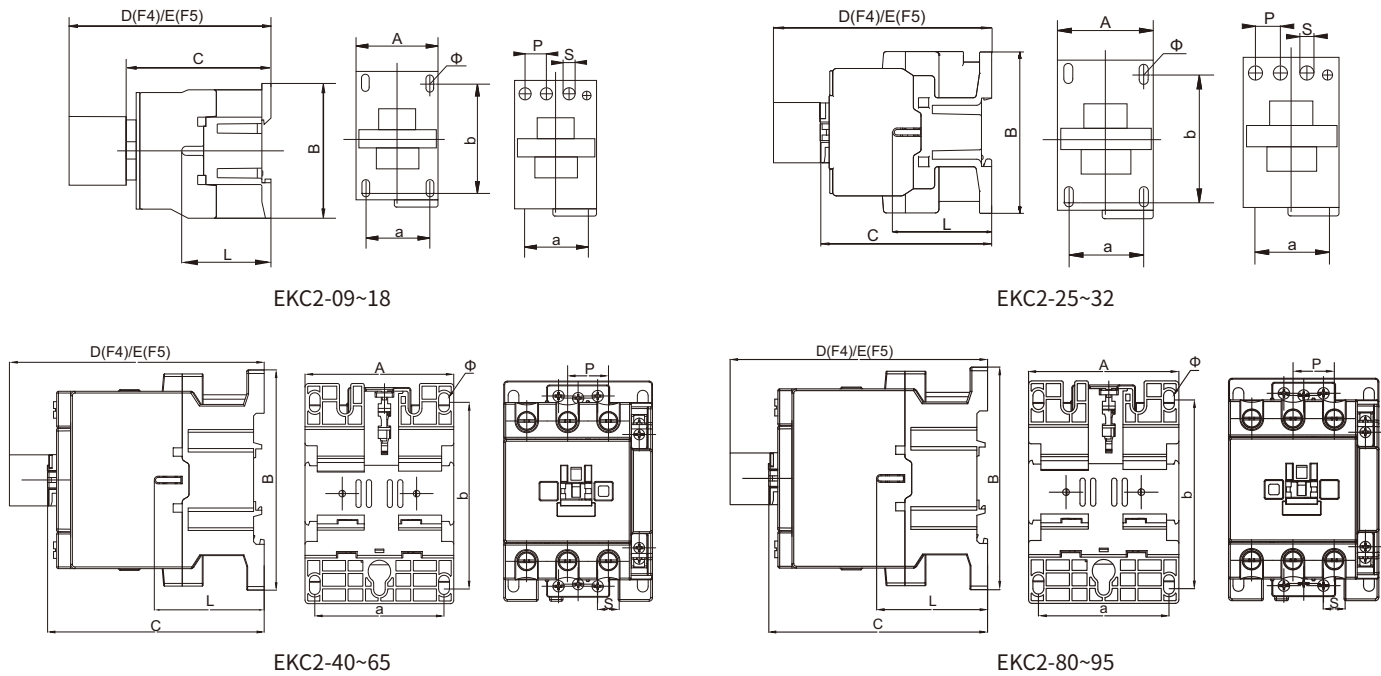
Technical Data

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(×10 ⁴ times)		1200			1000		900			650		
Electrical life (×10 ⁴ 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												
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
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



Product Overview

EKC2S 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	S	-	25	11	-	24V
①	②	③	④		⑤	⑥		⑦

Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	Economic type (small size)

Code	Meaning
⑤	Rated operating voltage (380V/400V, AC3): 9A,12A,18A,25A,32A,38,40A,50A,65A,80A,95A
⑥	Number of contacts 11: 3NO main contacts+1NO and 1NC auxiliary contact
⑦	Coil voltage: 24V,36V,48V,110V,127V,220/230V,240V, 380/400V,415V,440V

Operating and Installation Conditions

Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, TUV
Protection degree	EKC2S-09~38: IP20; EKC2S-40~95: IP10
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	EKC2S-09	EKC2S-12	EKC2S-18	EKC2S-25	EKC2S-32	EKC2S-38	EKC2S-40	EKC2S-50	EKC2S-65	EKC2S-80	EKC2S-95
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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	50	60	80	80	125	125
Rated operation current(Ie)(A)	AC-3, 380/400V	9	12	18	25	32	38	40	50	65	80	95
	AC-3, 660/690V	6.6	8.9	12	18	22	22	34	39	42	49	49
	AC-4, 380/400V	3.5	5	7.7	8.5	12	14	18.5	24	28	37	44
	AC-4, 660/690V	1.5	2	3.8	4.4	7.5	8.9	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	18.5	22	30	37	45
	AC-3, 660/690V	5.5	7.5	10	15	18.5	18.5	30	33	37	45	45
	AC-4, 380/400V	1.5	2.2	3.3	4	5.4	5.5	7.5	11	15	18.5	22
	AC-4, 660/690V	1.1	1.5	3	3.7	5.5	6	7.5	10	11	15	18.5
Mechanical life(×10 ⁴ times)		1200			1000			900			650	
Electrical life (×10 ⁴ 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,36V,48V,110V,127V,220/230V,240V, 380/400V,415V,440V									
	50/60Hz	24V,36V,48V,110V,127V,220/230V,240V, 380/400V,415V,440V									
Allowed control circuit voltage	Operation	Installation inclination angle $\pm 22.5^\circ$: 85%~110%Us; Installation inclination angle $\pm 5^\circ$: 70%~120%									
	Release	Installation inclination angle $\pm 22.5^\circ$: 20%~75%Us; Installation inclination angle $\pm 5^\circ$: 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

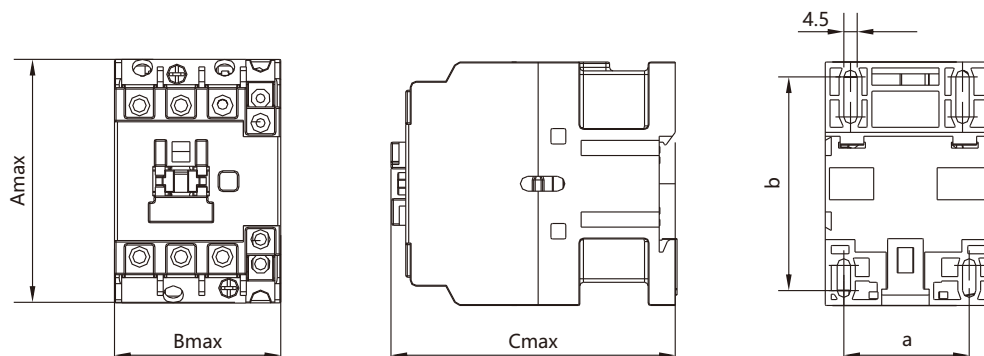
Connecting capability of main circuit terminal

Flexible wire No terminal	1 wire(mm²)	1~4	1.5~6		2.5~25	4~50
	2 wire(mm²)	1~4	1.5~6		2.5~16	4~25
Flexible wire With terminals	1 wire(mm²)	1~4	1~6		2.5~25	4~50
	2 wire(mm²)	1~2.5	1~4		2.5~10	4~16
Hard wire No terminal	1 wire(mm²)	1~4	1.5~6	1.5~10	2.5~25	4~50
	2 wire(mm²)	1~4	1.5~6		2.5~10	4~25
Fastening torque (N.m)		1.2	1.8		5	9

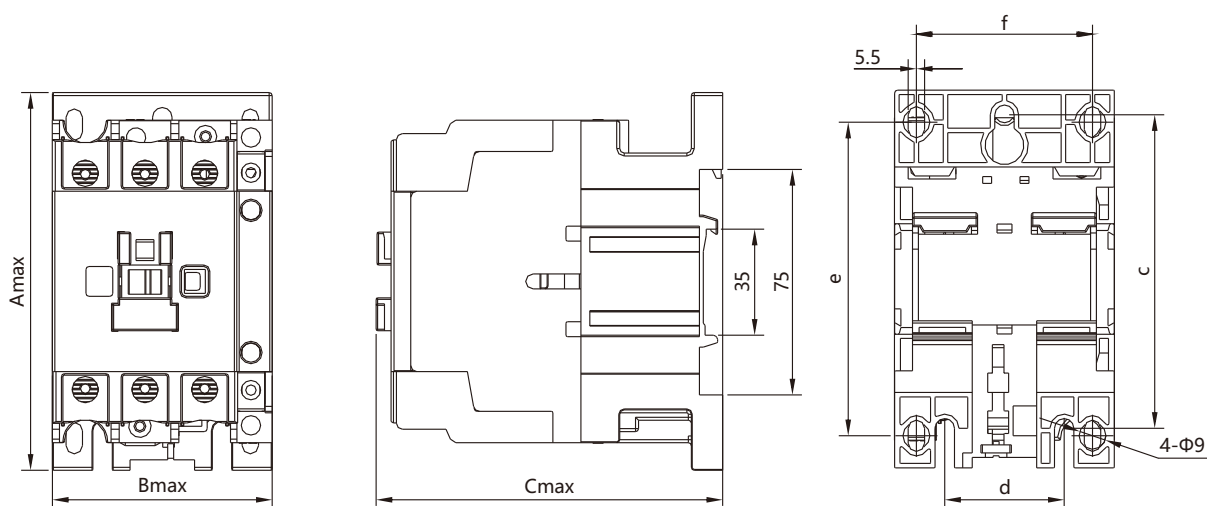
Auxiliary contacts

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									

Dimension(mm)



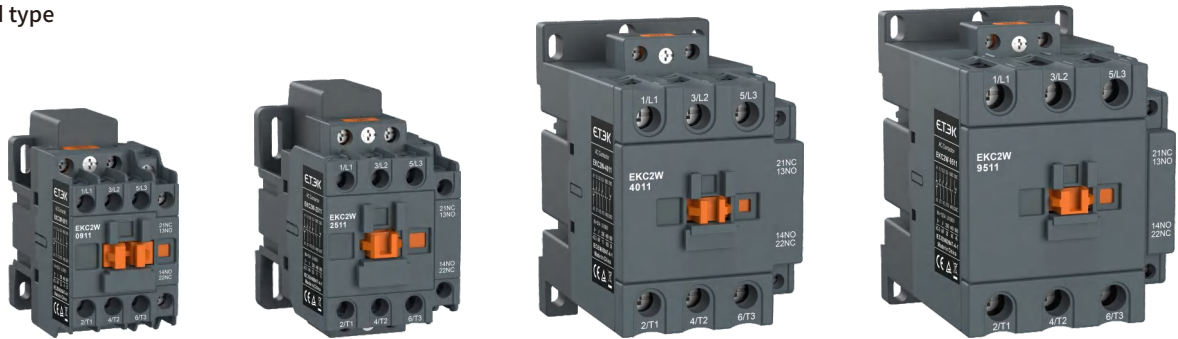
EKC2S-09~38



EKC2S-40~95

Type	Amax	Bmax	Cmax	a	b	c	d	e	f
EKC2S-09, 12, 18	74.5	45.5	85.5	35	50/60	-	-	-	-
EKC2S-25, 32	83	56.5	97	40	50/70	-	-	-	-
EKC2S-40, 50, 65	127.5	74.5	117	-	-	105	40	100/110	59
EKC2S-80, 95	127.5	85.5	125.5	-	-	105	40	100/110	67

Standard type



Economy type



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

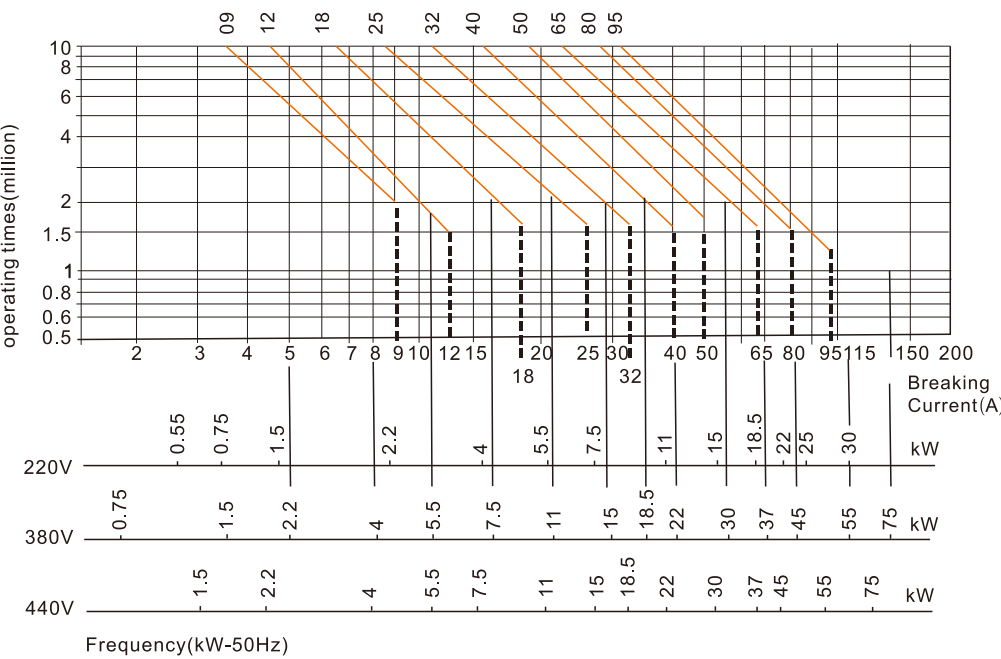
Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	Wide control voltage range

Code	Meaning
⑤	Rated operating voltage (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)

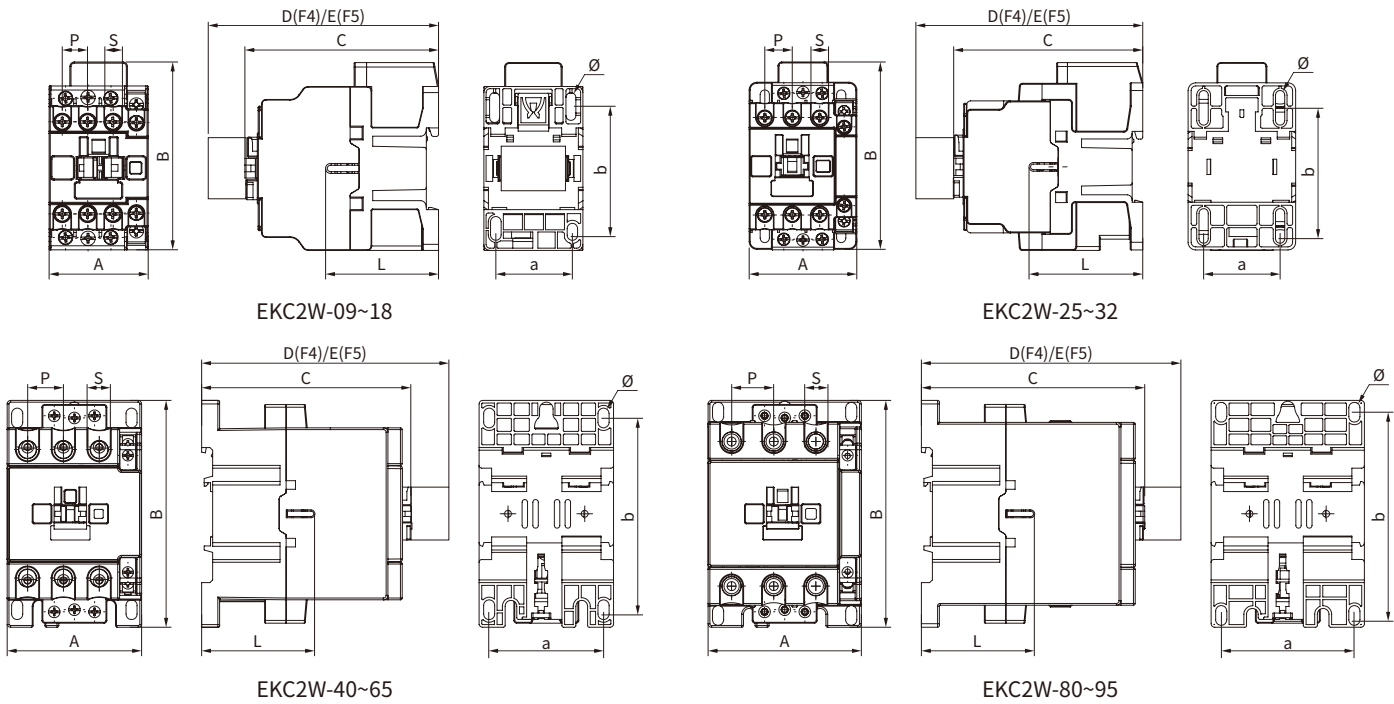
Technical Data

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
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 ⁴ times)		1000	1000	1000	1000	800	800	800	800	600	600	
Electrical life (×10 ⁴ times)	AC-3	100	100	100	100	80	60	60	60	60	60	
	AC-4	20	20	20	20	20	15	15	15	10	10	
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 AC/DC110-250V	Suction time(ms)	≤120										
	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												
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

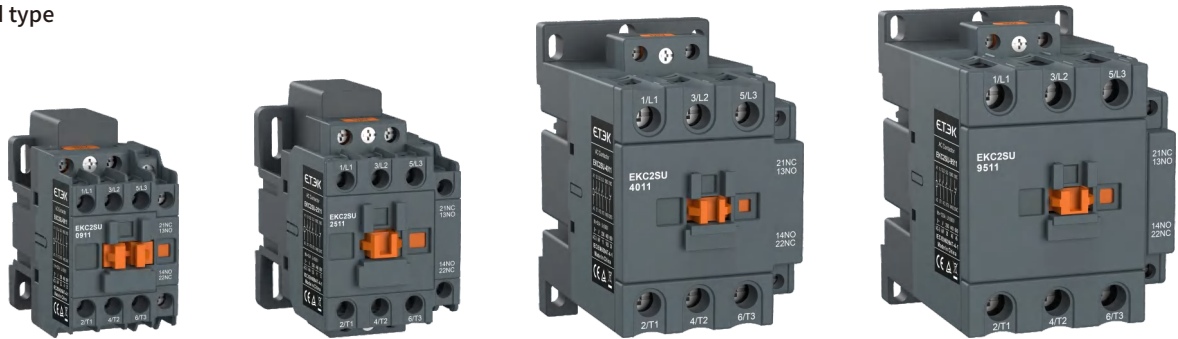


Dimension(mm)



Model	A Max	B Max	C Max	D Max	E Max	a	b	Ø	L	P	S
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

Standard type



Economy type



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

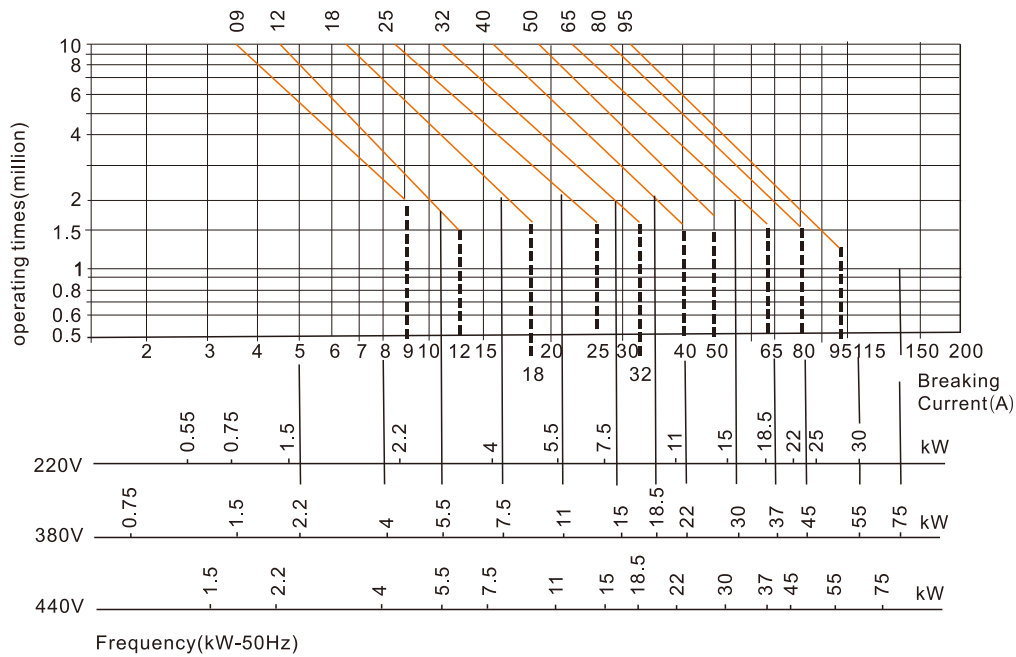
Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	Built-in surge suppressors

Code	Meaning
⑤	Rated operating voltage (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

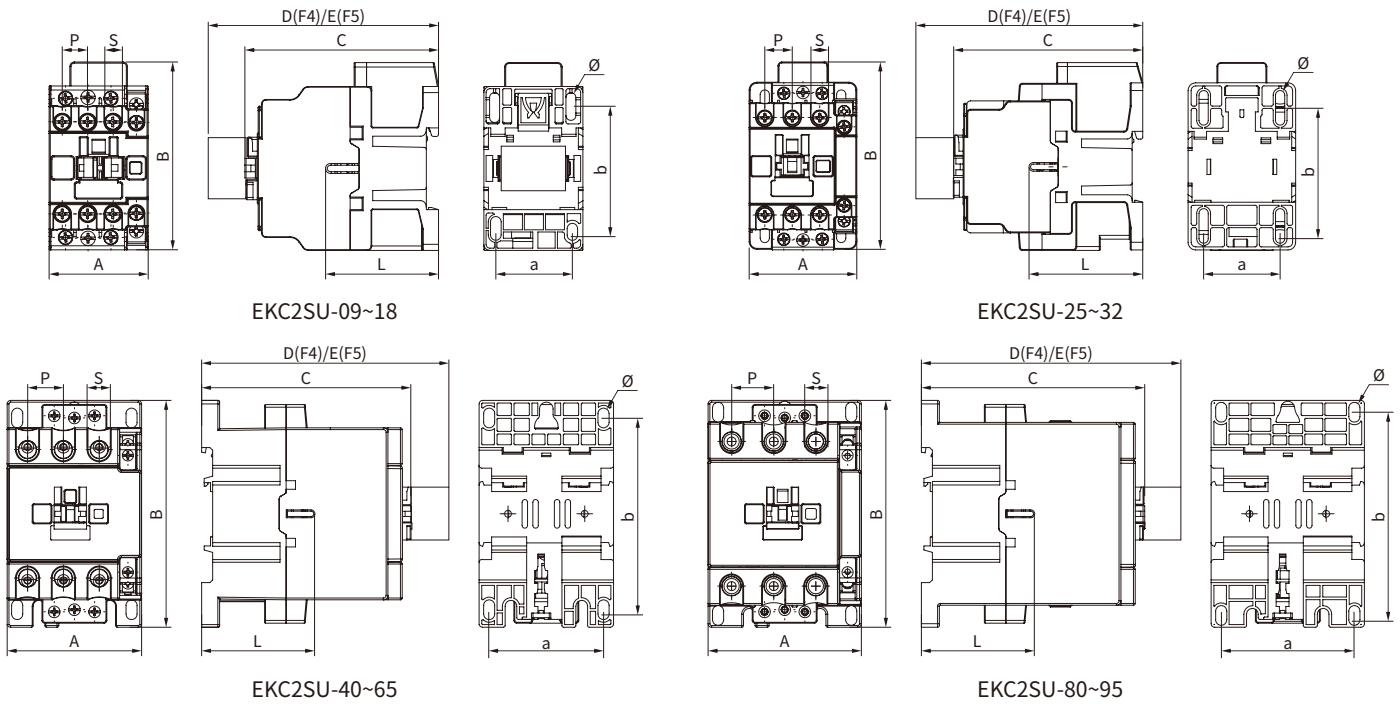
Technical Data

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 ⁴ times)		1000	1000	1000	1000	800	800	800	800	600	6
Electrical life (×10 ⁴ times)	AC-3	100	100	100	100	80	60	60	60	60	60
	AC-4	20	20	20	20	20	15	15	15	10	10
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	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



Product Overview

EKC2F-115~800 series AC contactors (hereinafter referred to as contactors) are mainly used for AC 50HZ (or 60HZ), with a rated insulation voltage of 1000V, and a rated working current of 115 when the rated working voltage is 415V under the AC-3 use category. In circuits of ~800A, it is used for long-distance making and breaking of circuits, frequent starting and controlling AC motors; and it can be combined with a suitable thermal overload relay to form an electromagnetic starter to protect circuits that may be overloaded.

EKC2F-1000~2600 AC contactor (hereinafter referred to as contactor) is mainly used for remote power supply in AC circuits under AC-1 usage category, AC 50Hz (or 60Hz), rated working voltage to 690V, rated working current 1000~2600A Distance makes and breaks circuits. Standard: IEC60947-4-1, IEC60947-5-1.

Type Designation

EK	C	2	F	-	115	04	-	220
↓	↓	↓	↓		↓	↓		↓
①	②	③	④		⑤	⑥		⑦

Code	Meaning
①	Company code
②	Contactor
③	Design sequence NO.
④	High current

Code	Meaning
⑤	Rated operating voltage: 115A,150A,185A,225A,265A,330A,400A,500A,630A,800A,1000A,1250A,1400A,1700A,2100A,2600A
⑥	04: Main circuit 4P; Blank: Main circuit 3P
⑦	Coil voltage

Description

Ambient temperature	-25℃~+40℃
Altitude	≤3000m
Ambient humidity	The ultimate humidity does not exceed 95%, the duration does not exceed 24 hours, and measures are required to prevent condensation; When the ambient temperature is high, the humidity is required to be low. For example, when the temperature exceeds +40℃, the humidity is required to not exceed 50%.
Pollution level	3 level
Protection level	IP20
Installation category	III
Installation direction	Installed vertically, and the inclination between the installation surface and the vertical surface is ≤30°
Installation method	Screw installation

Technical Data

Type	EKC2F-115	EKC2F-150	EKC2F-185	EKC2F-225	EKC2F-265	EKC2F-330	EKC2F-400	EKC2F-500	EKC2F-630	EKC2F-800
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Main circuit characteristic

Poles	3P, 4P										
Rated impulse withstand voltage (U _{imp})(kV)	8										
Rated insulation voltage (U _i)(V)	1000										
Rated operating voltage (U _e)(V)	380/415; 660/690										
Rated thermal current (I _{th})(A)	200	200	275	280	350	360	500	580	850	850	
Rated operation current (I _e)(A)	AC-3, 415V	115	150	185	225	265	330	400	500	630	800
	AC-3, 690V	86	107	118	135	170	225	305	335	460	470
	AC-4, 415V	52	60	79	85	105	117	138	147	188	195
	AC-4, 690V	49	57	69	82	98	107	135	145	170	175
Rated turn-on capacity	10×I _e (AC-3), 12×I _e (AC-4), 1.5×I _e (AC-1)										
Rated breaking capacity	8×I _e (AC-3), 10×I _e (AC-4), 1.5×I _e (AC-1)										
Mechanical life(×10 ⁴ times)	300										
Electrical life (×10 ⁴ times)	AC-3	80	80	50	50	50	50	30	20	20	20
	AC-4	15	15	15	15	15	15	8	8	5	3
Frequency of operation (h ⁻¹)	AC-3	600	600	600	600	300	300	300	300	300	300
	AC-4	150	150	150	150	150	150	150	150	150	150
Average impedance per pole at I _{th} and 50Hz(mΩ)		0.37	0.35	0.33	0.32	0.3	0.28	0.26	0.18	0.12	0.12
Shock resistance 1/2 sine wave= 11ms (gn)	Contactor open	9	9	7	7	6	6	6	9	9	6
	Contactor close	15	15	15	15	15	15	15	15	15	15
Vibration resistance 5...300 Hz (gn)	Contactor open	2	2	2	2	2	2	1.5	2	2	2
	Contactor close	6	6	6	6	5	5	5	4	4	4

Control circuit characteristics

Rated control voltage (Uc)		24,36,48,110,220, 240,380,415,480 (50Hz,50/60Hz)	110,200,220,230, 240,380,400,415 (50Hz,50/60Hz)	110,220,230, 380,400 (50/60Hz)		110,220,230,380 (50/60Hz)			
Operation voltage range		(85%~110%)Uc							
Release voltage range		(20%~75%)Uc							
Power consumption of coil	Operation(VA)	≤550(50Hz) ≤855(50/60Hz)	≤805(50Hz) ≤1180(50/60Hz)	≤650	≤650	≤1075	≤1100	≤1650	≤1700
	Keep(VA)	≤55(50Hz) ≤9(50/60Hz)	≤64(50Hz) ≤14(50/60Hz)	≤15	≤15	≤22	≤24	≤27	≤27
Coil operation time(ms)		23~35	20~35	40~65	40~65	40~75	40~75	40~80	60~80
Coil release time(ms)		5~15(50Hz) 130(50/60Hz)	7~15(50Hz) 130(50/60Hz)	100~170	100~170	100~170	100~170	100~200	150~180

Connecting capability of main circuit

Cable	Quantity	1	1	1	1	1	1	2	2	/	/
	Size (mm ²)	95	120	150	185	240	250	150	240	/	/
Copper row	Quantity	2	2	2	2	2	2	2	2	2	2
	Size (mm)	20×3	25×3	25×3	32×4	32×4	30×5	30×5	40×5	60×5	60×5

Connecting capability of control circuit

Number of flexible wire 1 or 2 (mm ²)	2.5
Number of hard wire 1 (mm ²)	4
Tightening torque (N.m)	1.2

Type	EKC2F-1250	EKC2F-1000	EKC2F-1400	EKC2F-1700	EKC2F-2100	EKC2F-2600
Main circuit characteristic						
Poles	3P, 4P					
Rated impulse withstand voltage (Uimp)(kV)	12					
Rated insulation voltage (Ui)(V)	1000					
Rated operating voltage (Ue)(V)	660/690					
Rated thermal current (Ith)(A)	1250	1000	1400	1700	2100	2600
Rated operating current (Ie)(A) (open installation) AC-1, Ue≤690V, θ≤40°C	1250	1000	1400	1700	2100	2600
Rated turn-on capacity	1.5×Ie (AC-1)					
Rated breaking capacity	1.5×Ie (AC-1)					
Mechanical life(×10 ⁴ times)	100	100	60	60	60	60
Maximum mechanical operating frequency	600 times/h					
Electrical life AC-1 (×10 ⁴ times)	8	8	7	7	4	3
Frequency of operation AC-1 (h ⁻¹)	200 times/h					
Average impedance per pole At Ith and 50Hz(mΩ)	0.12	0.12	0.1	0.1	0.1	0.1
Shock resistance 1/2 sine wave=11ms (gn)	Contactor open	6				
	Contactor close	15				
Vibration resistance 5...300 Hz (gn)	Contactor open	2				
	Contactor close	4				

Control circuit characteristics

Rated control voltage (Uc)		110,220,230,380 (50/60Hz)	110, 110~120, 220, 220~230, 240, 277, 380, 380~400, 415~400 (50/60Hz)				
Operation voltage range		(85%~110%)Uc					
Release voltage range		(20%~75%)Uc					
Power consumption of coil	Operation(VA)	≤1700	≤2200	≤2200	≤2200	≤2200	≤2200
	Keep(VA)	≤27	≤44	≤44	≤44	≤44	≤44
Coil operation time(ms)		60~80	40~75	40~75	40~75	40~75	40~75
Coil release time(ms)		150~180	100~170	100~170	100~170	100~170	100~170

Connecting capability of main circuit

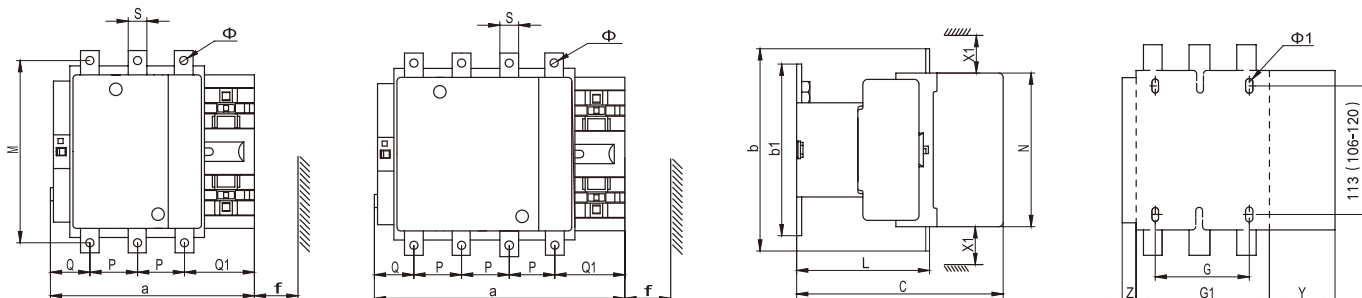
Copper row	Quantity	2	2	3	3	4	3
	Size (mm)	100×5	100×5	100×5	100×5	100×5	100×10

Connecting capability of control circuit

Number of flexible wire 1 or 2 (mm ²)	2.5
Number of hard wire 1 (mm ²)	4
Tightening torque (N.m)	1.2

Dimension(mm)

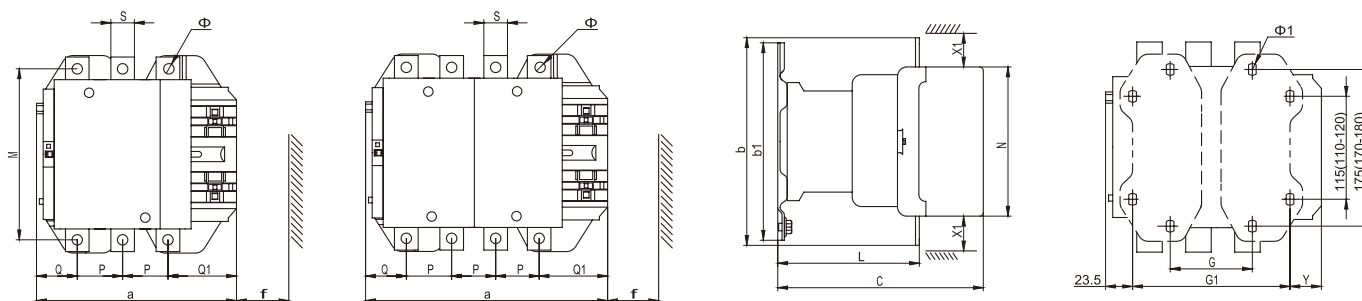
EKC2F-115~330



Model	a	p	Q	Q1	S	Φ	f	b	b1	M	N	c	L	G	Φ1	G1	Z	Y	X1	
																			≤500V	>500V
EKC2F-115	163.5	37	29.5	60	15	6.5	131	162	137	147	124	171	107	80	6.5	106	13.5	44	10	15
EKC2F-11504	200.5	37	29.5	60	15	6.5	131	162	137	147	124	171	107	80	6.5	143	13.5	44	10	15
EKC2F-150	163.5	40	26	57.5	20	9	131	170	137	150	124	171	107	80	6.5	106	13.5	44	10	15
EKC2F-15004	200.5	40	26	55.5	20	9	131	170	137	150	124	171	107	80	6.5	143	13.5	44	10	15
EKC2F-185	168.5	40	29	59.5	20	9	130	174	137	154	127	181	113.5	80	6.5	111	13.5	44	10	15
EKC2F-18504	208.5	40	29	59.5	20	9	130	174	137	154	127	181	113.5	80	6.5	151	13.5	44	10	15
EKC2F-225	168.5	48	21	51.5	25	11	130	197	137	172	127	181	113.5	80	6.5	111	13.5	44	10	15
EKC2F-22504	208.5	48	17	47.5	25	11	130	197	137	172	127	181	113.5	80	6.5	151	13.5	44	10	15
EKC2F-265	201.5	48	39	66.5	25	11	147	203	145	178	147	213	141	96	6.5	140	20.5	38	10	15
EKC2F-26504	224.5	48	34	66.5	25	11	147	203	145	178	147	213	141	96	6.5	186	20.5	38	10	15
EKC2F-330	213	48	43	74	25	11	147	206	145	181	158	219	145	96	6.5	154.5	20.5	38	10	15
EKC2F-330	261	48	43	74	25	11	147	206	145	181	158	219	145	96	6.5	202.5	20.5	38	10	15

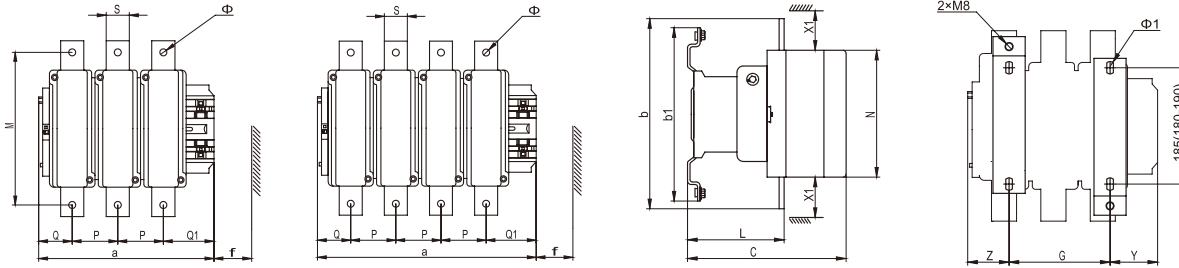
Note: For the space required to replace the coil, X1 is the minimum electrical gap (flashover distance), which is the same as below.

EKC2F-400~500



Model	a	p	Q	Q1	S	Φ	f	b	b1	M	N	c	L	G	G1	Φ1	Y	X1	
																		≤500V	>500V
EKC2F-400	213	48	43	74	25	11	151	206	209	181	158	219	145	80 (66-102)	170 (156-192)	8.5	19.5	15	20
EKC2F-40004	261	48	43	74	25	11	151	206	209	181	158	219	145	80 (66-150)	170 (156-240)	8.5	67.5	15	20
EKC2F-500	233	55	46	77	30	11	169	238	209	208	172	232	146	80 (66-120)	170 (156-210)	8.5	39.5	15	20
EKC2F-50004	288	55	46	77	30	11	169	238	209	208	172	232	146	140 (66-175)	230 (156-265)	8.5	34.5	15	20

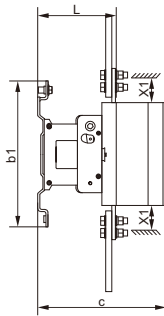
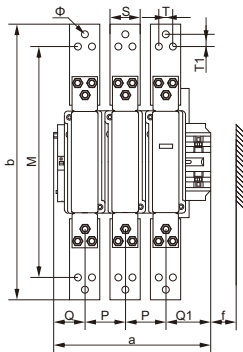
EKC2F-630~800



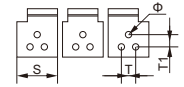
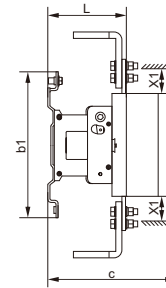
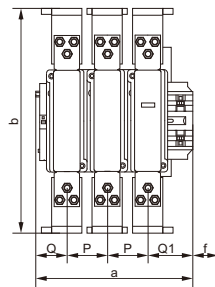
Model	a	p	Q	Q1	S	Φ	f	b	b1	M	N	c	L	G	Φ1	Z	Y	X1	
																		≤500V	>500V
EKC2F-630 EKC2F-800	309	80	60	89	40	13	201	304	280	264	202	255	155	180 (100-195)	10.5	60.5	68.5	20	30
EKC2F-63004 EKC2F-80004	389	80	60	89	40	13	201	304	280	264	202	255	155	240 (150-275)	10.5	60.5	88.5	20	30

EKC2F-1250

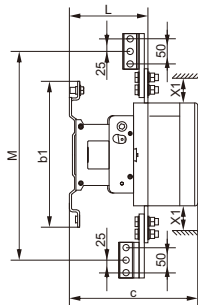
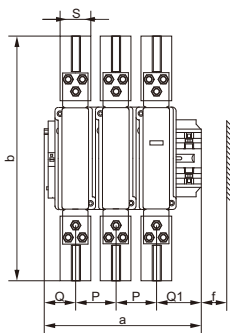
I type overall dimension



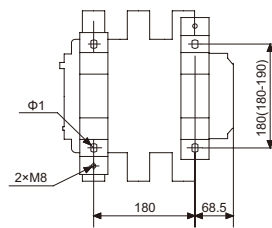
C type overall dimension



T type overall dimension



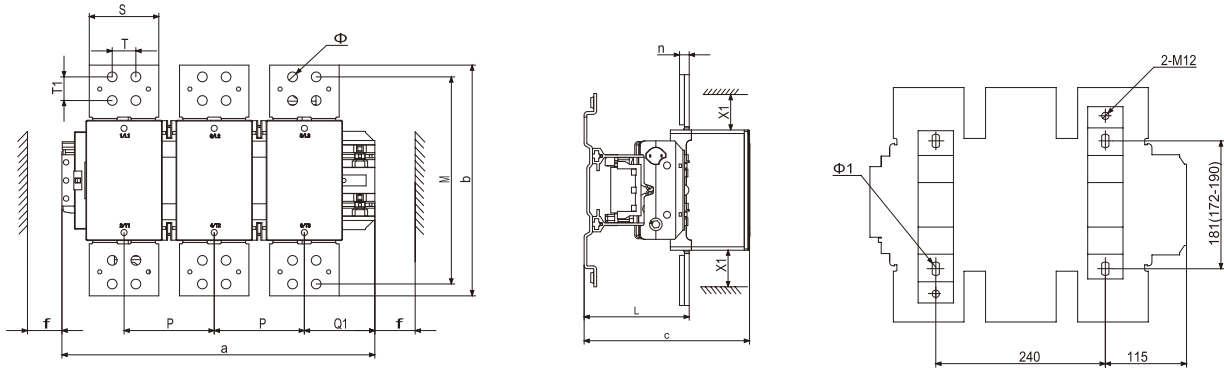
Installation Dimension



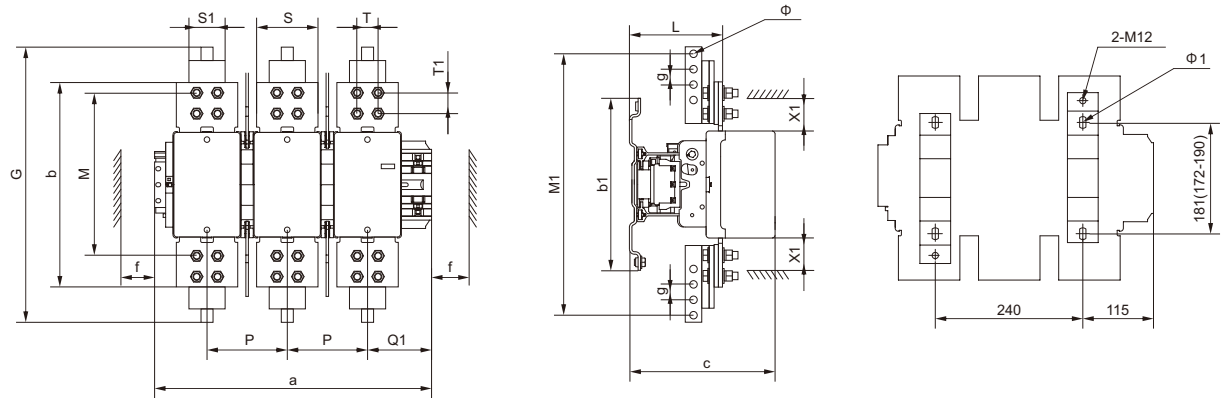
EKC2F-1250	a	p	Q	Q1	S	g	T	T1	Φ	f	b	b1	M	c	L	Φ1	X1	
																	≤500V	>500V
I type row connection	309	80	60	89	60	/	28	24	13	151	512	280	424	251	155	10.5	20	30
C type row connection	309	80	60	89	80	20	28	24	13	151	462	280	/	251	155	10.5	20	30
T type row connection	309	80	60	89	50	/	/	/	13	151	442	280	370.5	251	155	10.5	20	30

Note: Choose any one of the above three connection rows.

EKC2F-1000~2100



EKC2F-2600



Model	a	b	c	L	n	p	Q1	M	Φ	Φ1	S	S1	T	T1	f	G	g	M1	X1 (Ue≤690V)
EKC2F-1000	448	332	238	151	12	130.5	104	298	13	10.5	100	/	34	34	170	/	/	/	100
EKC2F-1400	448	332	238	151	12	130.5	104	298	13	10.5	100	/	34	34	170	/	/	/	100
EKC2F-1700	448	332	238	151	12	130.5	104	298	13	10.5	100	/	34	34	170	/	/	/	100
EKC2F-2100	448	332	238	151	12	130.5	104	298	13	10.5	100	/	34	34	170	/	/	/	100
EKC2F-2600	448	332	238	148	20	130	104	298	13	10.5	100	60	34	34	170	480	25	458	100



Product Overview

EKC2-M 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.

Type Designation

EK	C	2	-	09	10	M	/	Z
↓	↓	↓		↓	↓	↓		↓
①	②	③		④	⑤	⑥		⑦
Code	Meaning			Code	Meaning			
①	Company code				Number of contacts (reversible contactors represent the types and quantities of contacts for a single product) 10: 3NO main contacts+1NO auxiliary contact 01: 3NO main contacts+1NC auxiliary contact 04: 4NO main contacts 08: 2NO and 2NC main contacts			
②	Contactor			⑤				
③	Design sequence NO.			⑥				
④	Rated current (380V/400V, AC3): 6A, 9A, 12A			⑦	M represents mini contactor Z represents DC operation, N represents reversible AC contactor			

Operating and Installation Conditions

Type	Operating and Installation Conditions
Installation category	III
Pollution level	3
Certification	CE, CB, TUV
Protection degree	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 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°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		EKC2-06M	EKC2-09M	EKC2-12M
Main circuit characteristic				
Poles		3P/4P		
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		
Rated operation current(Ie)(A)	AC-3, 380/400V	6	9	12
	AC-3, 660/690V	3.8	4.9	4.9
	AC-4, 380/400V	6	9	9
	AC-4, 660/690V	3.8	4.9	4.9
Rated operational power(Pe)(A)	AC-3, 380/400V	2.2	4	5.5
	AC-3, 660/690V	3	4	4
Mechanical life(×10 ⁴ times)		1200		
Electrical life (×10 ⁴ times)	AC-3	120		
	AC-4	See electrical life curve		
Frequency of operation (time/h)	AC-3	1200		
	AC-4	300		
Control circuit characteristics				
Rated control voltage (Us)	50Hz	24V,36V,48V,110V,127V,220V,380V,415V		
	50/60Hz	24V,36V,48V,110V,127V,220V,380V,415V		
	DC	12V,24V,36V,48V,110V,127V,220V		
Allowed control circuit voltage	Operation	Installation inclination angle ±22.5°: (85%~110%)Us; Installation inclination angle±5°: 70%~120%		
	Release(AC)	Installation inclination angle ±22.5°: (20%~75%)Us; Installation inclination angle±5°: 20%~60%		
	Release(DC)	Installation inclination angle ±22.5°: (10%~75%)Us; Installation inclination angle±5°: 10%~60%		
Power consumption of coil	Actuation(VA)	20-40		
	Keep(VA)	9.5		
	Consumption(W)	1-3		
Connecting capability of main circuit terminal				
Flexible wire No terminal	1 wire(mm ²)	1~4		
	2 wire(mm ²)	1~4		
Flexible wire With terminals	1 wire(mm ²)	1~4		
	2 wire(mm ²)	1~2.5		
Hard wire No terminal	1 wire(mm ²)	1~4		
	2 wire(mm ²)	1~4		
Fastening torque (N.m)		1.2		
Auxiliary contacts				
Bulit-in auxiliary contact		1NO/1NC		
Rated thermal current (Ith)		10A		
Rated operating voltage (Ue)	AC	380/400V		
	DC	220V		
Rated control capacity	AC-15	Ue/Ie: AC380V/400V/1.5A; Ith: 10A		
	DC-13	Ue/Ie: DC220V/0.3A		

Selection Table

Motor power kW		Maximum operation current A	Number of contacts contained in the contactor body		Contactor model
380/400V	660/690V	AC-3 380/400V	NO	NC	
2.2	3	6	1	0	EKC2-0610M
2.2	3	6	0	1	EKC2-0601M
2.2	3	6	0	0	EKC2-0604M
2.2	3	6	0	0	EKC2-0608M
4	4	9	1	0	EKC2-0910M
4	4	9	0	1	EKC2-0901M
4	4	9	0	0	EKC2-0904M
4	4	9	0	0	EKC2-0908M
5.5	4	12	1	0	EKC2-1210M
5.5	4	12	0	1	EKC2-1201M
5.5	4	12	0	0	EKC2-1204M
5.5	4	12	0	0	EKC2-1208M

Coil Voltage Specification Table

AC(V) 50Hz	24	36	48	110	127	220	380	415
AC(V) 60Hz	24	36	48	110	127	220	380	415
AC(V) 50/60Hz	24	36	48	110	127	220	380	415
DC(V)	12	24	36	48	110	127	220	-

Instructions For Use of Correction Factors In High Altitude Areas

Altitude (m)	2000	3000	4000
Rated impulse withstand voltage correction factor	1	0.88	0.78
Rated operation current correction factor	1	0.92	0.90

Instructions For Use Under Abnormal Ambient Temperature

Ambient temperature (°C)	55	60	65	70
Correction factor	1	0.93	0.875	0.75

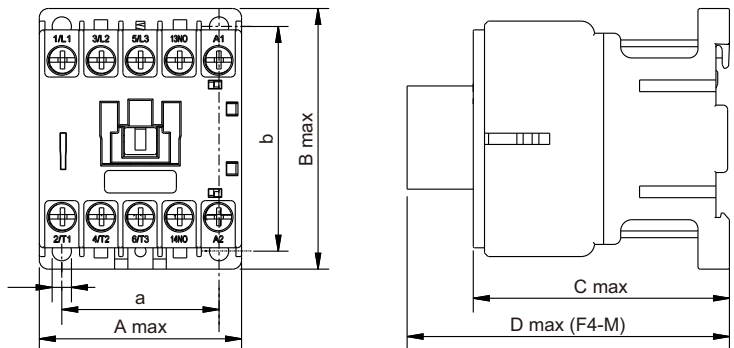
EKC2-M

ETEK®

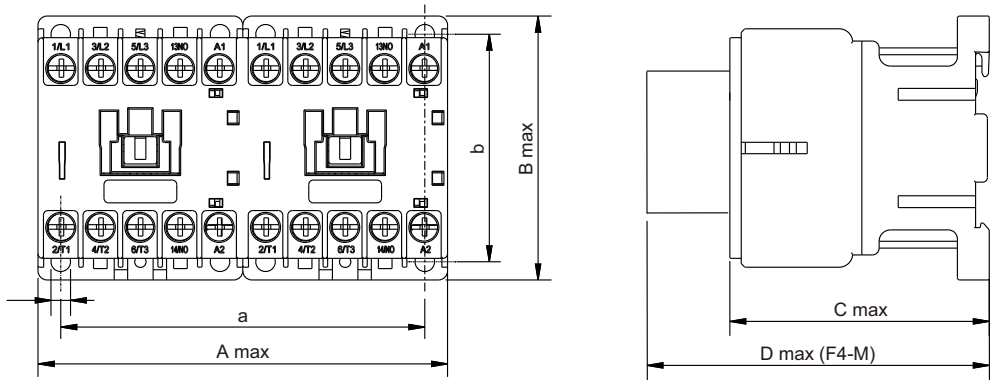
Mini Contactor 6~12A

Standard_ IEC60947-1
IEC60947-4-1

Dimension(mm)



Model	A Max	B Max	C Max	D Max	a	b	Ø
EKC2-06M~12M	45.5	59	58	94	35±0.35	50±0.48	4.2
EKC2-06M/Z~12M/Z	45.5	59	70	106	35±0.35	50±0.48	4.2



Model	A Max	B Max	C Max	D Max	a	b	Ø
EKC2-06M/N~12M/N	91	59	58	94	80±0.35	50±0.48	4.2
EKC2-06M/Z/N~12M/Z/N	91	59	70	106	80±0.35	50±0.48	4.2

Standard type



Economy type



Feature

- 3-phase bimetal
- Continuously readjustable current settings
- Temperature compensation
- Tripping indicator
- Test button
- Stop button
- Manual and automatic reset button
- Electrically separated 1NO plus 1NC contact

Type Designation

EK	R	2	-	25	11
↓	↓	↓		↓	↓
①	②	③		④	⑤

Code	Meaning
①	Company code
②	Thermal overload relay
③	Design sequence Number

Code	Meaning
④	Frame Size
⑤	Code of current rating Basic specification, expressed with the rated operational current (380V/400V, AC3)

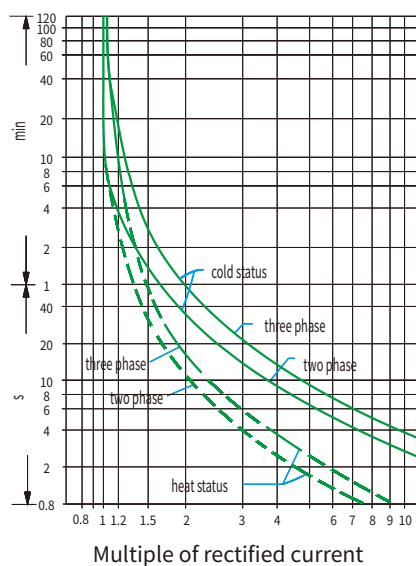
Description

Electric value	AC50/60Hz, 690V, 0.1~93A
Tripping class	10A
Mounting version	Plug-in: Available for EKR2-13, 23, 33

Protection property

Item	Series No.	I/In		Operating time Tp	Test condition
Overload protection	1	1.05		>2 h	Start from cold status
	2	1.2		≤2h	Start from heat status, right after item No.1
	3	1.5		≤2min	Start from heat status, right after item No.1
	4	7.2		2s<Tp≤10s	Start from cold status
Phase failure protection	5	Any two phases	Another phases	>2 h	Start from cold status
		1.0	0.9		
	6	1.15	0	≤2 h	Start from heat status, right after item No.5

Curves



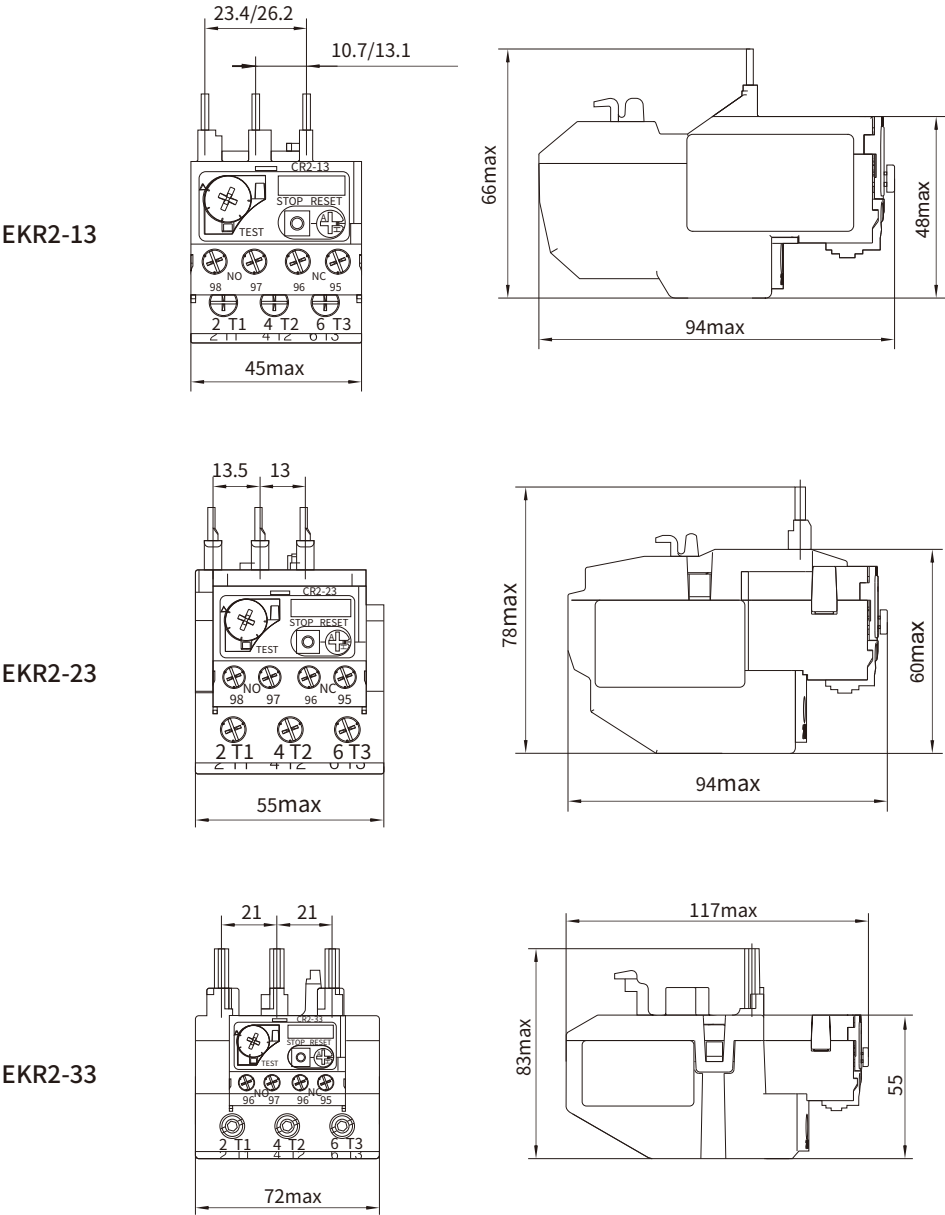
Technical Data

Phase failure protection function		Yes
Automatic & manual reset		Yes
Temperature compensation		Yes
Tripping indicator		Yes
Test & stop pushbutton		Yes
Mounting mode	Plug-in	Yes
	Independent	Yes
	No. of contacts	1NO+1NC
Auxiliary contacts	Rated current (A) (AC-15 220V)	2.73
	Rated current (A) (AC-15 380V)	1.58
	Rated current (A) (DC-13 220V)	0.2

Assembly with contactor

Model of overload relay	Code	Rated current (A)	Recommended fuse type(Recommended RT16)		Contactor Matched
			aM	gG	
EKR2-13	1301	0.1~0.16	0.25	2	EKC1/EKC2(S)-09 EKC1/EKC2(S)-12 EKC1/EKC2(S)-18 EKC1/EKC2(S)-25 EKC1/EKC2(S)-32
	1302	0.16~0.25	0.5	2	
	1303	0.25~0.4	1	2	
	1304	0.4~0.63	1	2	
	1305	0.63~1	2	4	
	1306	1~1.6	2	4	
	1307	1.6~2.5	4	6	
	1308	2.5~4	6	10	
	1310	4~6	8	16	
	1312	5.5~8	12	20	
	1314	7~10	12	20	
	1316	9~13	16	25	
	1321	12~18	20	35	
	1322	17~25	25	50	
EKR2-23	2353	23~32	40	63	EKC1/EKC2(S)-32
	2355	30~40	40	80	
EKR2-33	3353	23~32	40	63	EKC1/EKC2(S)-40 EKC1/EKC2(S)-50 EKC1/EKC2(S)-65 EKC1/EKC2(S)-80 EKC1/EKC2(S)-95
	3355	30~40	40	100	
	3357	37~50	63	100	
	3359	48~65	63	100	
	3361	55~70	80	125	
	3363	63~80	80	125	
	3365	80~93	100	160	

Dimension(mm)



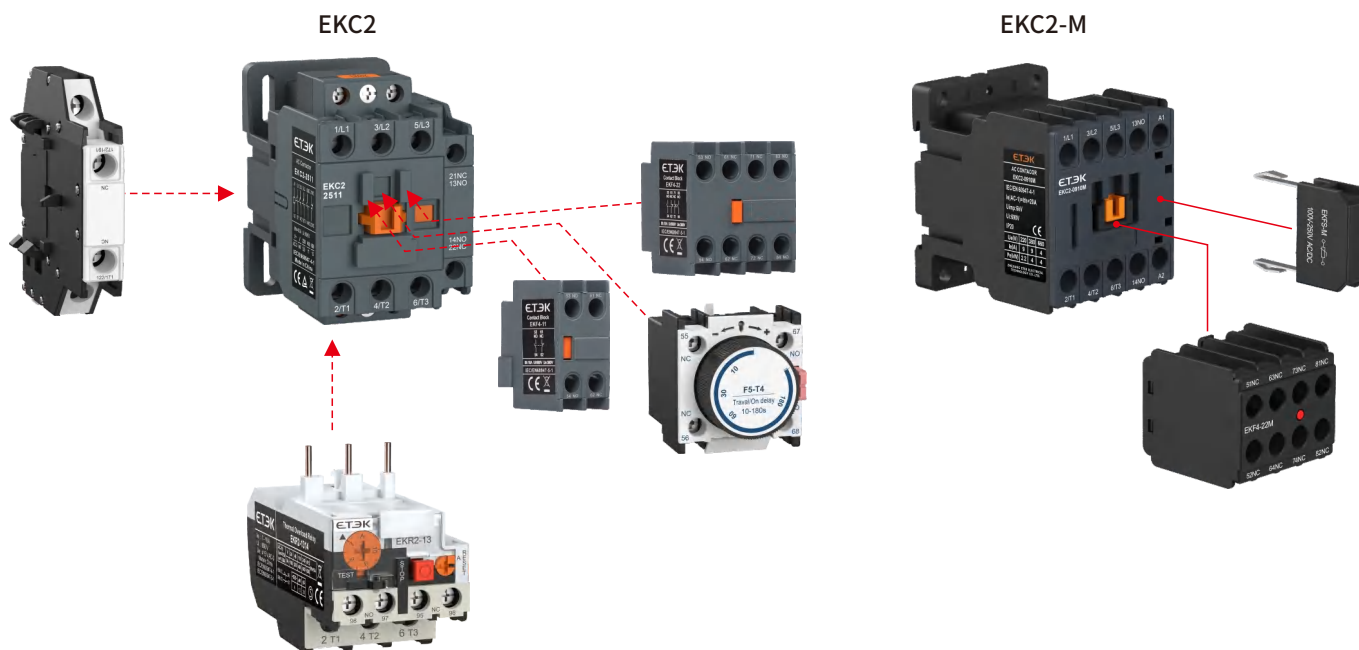
Items			EKR2-13	EKR2-23	EKR2-33
Cross section area of conductor mm ²	Main circuit	Single core or stranded wire	1~4	4~10	4~35
		Wiring screw	M4	M4	M10
	Auxiliary circuit	Single core or stranded wire	0.5~2.5	0.5~2.5	0.5~2.5
		Wiring screw	M3.5	M3.5	M3.5

	Sepecification	Model	Contact Number	Contactor Matched
	Auxiliary Contact 4-pole Front mount	EKF4-40G	4NO	EKC2(S)-09~95 EKC2F-115~800
		EKF4-31G	3NO+1NC	
		EKF4-22G	2NO+2NC	
		EKF4-13G	1NO+1NC	
		EKF4-04G	4NC	
	Auxiliary Contact 2-pole Front mount	EKF4-20G	2NO	
		EKF4-11G	1NO+1NC	
		EKF4-02G	2NC	
	Auxiliary Contact 4-pole Front mount	EKF4-40M	4NO	EKC2-06M~12M
		EKF4-31M	3NO+1NC	
		EKF4-22M	2NO+2NC	
		EKF4-13M	1NO+3NC	
	Auxiliary Contact 2-pole Front mount	EKF4-20M	2NO	
		EKF4-11M	1NO+1NC	
		EKF4-02M	2NC	
	Auxiliary Contact 2-pole Side mount	EKF8-20	2NO	EKC2(S)-09~95
		EKF8-11	1NO+1NC	
		EKF8-02	2NC	
	1NO+1NC Pneumatic timer ON-delay	EKF5-T0	0.1~3s	EKC2(S)-09~95 EKC2F-115~800
		EKF5-T2	0.1~30s	
		EKF5-T4	10~180s	
	1NO+1NC Pneumatic timer OFF-delay	EKF5-D0	0.1~3s	
		EKF5-D2	0.1~30s	
		EKF5-D4	10~180s	
	Contactor Coil	EKX1-2	AC Volts	EKC2(S)-09~18
		EKX1-4	AC Volts	EKC2(S)-25~32
		EKX1-6	AC Volts	EKC2(S)-40~95
	Contactor Coil Water Proof	EKX1-6N	AC Volts	EKC2(S)-40~95
		EKX1-FF	AC Volts	EKC2F-115~150
		EKX1-FG	AC Volts	EKC2F-185~225
		EKX1-FH	AC Volts	EKC2F-265
		EKX1-FJ	AC Volts	EKC2F-400
		EKX1-FK	AC Volts	EKC2F-500
		EKX1-FL	AC Volts	EKC2F-630

ETAK®

	Sepecification	Model	Matched
	Accessories for Reversing/ change-over type contactor	EKA9-0932	EKC2(S)-09~32
		EKA9-4095	EKC2(S)-40~95
		EKA9-FF970	EKC2F-115~150
		EKA9-FB970	EKC2F-185~225
		EKA9-FH970	EKC2F-265~330
		EKA9-FJ970	EKC2F-400~500
		EKA9-FL970	EKC2F-630~800
	Mounting Block for Thermal Overload Relay	EKA9-1064	EKR2-13
		EKA9-2064	EKR2-23
		EKA9-3064	EKR2-33
	Sepecification	Model	Matched
	Surge Suppression Module	EKFS-M	AC/DC: 24-48V AC/DC: 110-240V AC/DC: 380-440V

Mounting Sketch Map





Description

EKQ1 series electromagnetic starter ("starter" for short hereinafter) applies mainly to circuit with AC current of 50Hz(or 60Hz), rated operational voltage of 660V and rated controlled power up to 45kW (current up to 95A) for using to control the direct start and halt of the electromotor to protect the motor from overload and phase failure.

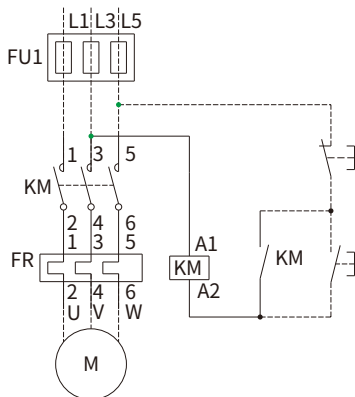
Type Designation

EK	Q	1	-	25	/	1322
↓	↓	↓		↓		↓
①	②	③		④		⑤

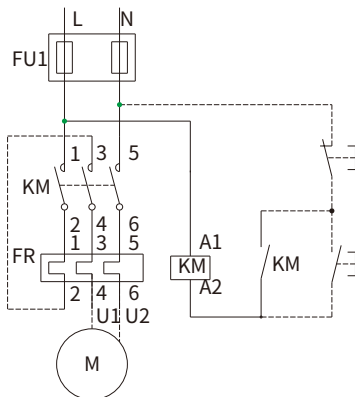
Code	Meaning
①	Company code
②	DOL Electromagnetic Starter
③	Design sequence Number

Code	Meaning
④	Frame Size
⑤	Code of Thermal Overload Relay CR2

Wiring Diagram



Control supply voltage is as the same as the main circuit voltage (three-phase)



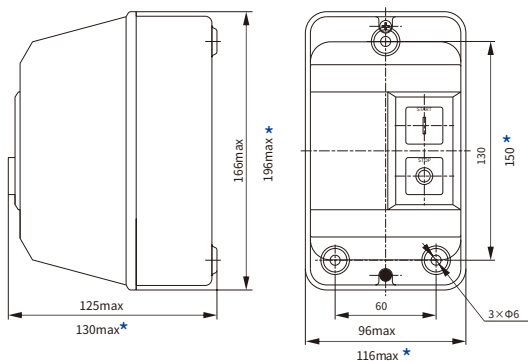
Control supply voltage is as the same as the main circuit voltage (single-phase)

Basic Model and Main Technical Parameter of The Starter

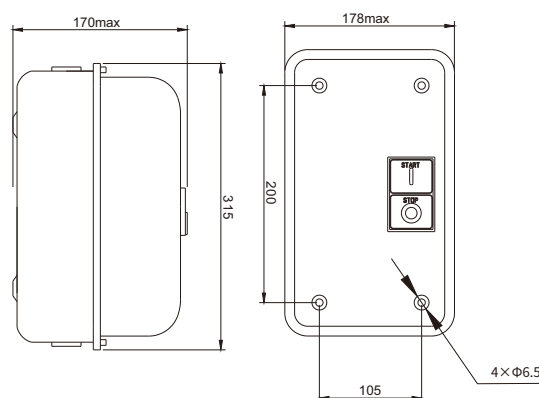
Model	Range of setting current (A)	Current (A)	Maximum rated Power (kW)			Model of equipped AC contactor	TOR matched
			AC-3				
			600V	380V	220V		
EKQ1-09/1301	0.1~0.16	9	5.5	4	2.2	EKC1/EKC2(S)-09	EKR2-13
EKQ1-09/1302	0.16~0.25						
EKQ1-09/1303	0.25~0.4						
EKQ1-09/1304	0.4~0.63						
EKQ1-09/1305	0.63~1						
EKQ1-09/1306	1~1.6						
EKQ1-09/1307	1.6~2.5						
EKQ1-09/1308	2.5~4						
EKQ1-09/1310	4~6						
EKQ1-09/1312	5.5~8						
EKQ1-09/1314	7~10	18	10	7.5	4	EKC1/EKC2(S)-18	EKR2-13
EKQ1-18/1314	7~10						
EKQ1-18/1316	9~13						
EKQ1-18/1321	12~18	25	15	11	5.5	EKC1/EKC2(S)-25	EKR2-13
EKQ1-25/1321	12~18						
EKQ1-25/1322	17~25						
EKQ1-32/2353	23~32	32	18.5	15	7.5	EKC1/EKC2(S)-32	EKR2-23
EKQ1-40/3355	30~40	40	30	18.5	11	EKC1/EKC2(S)-40	EKR2-33
EKQ1-50/3357	37~50	50	33	22	15	EKC1/EKC2(S)-50	EKR2-33
EKQ1-65/3359	48~65	65	37	30	18.5	EKC1/EKC2(S)-65	EKR2-33
EKQ1-80/3361	55~70	80	45	37	22	EKC1/EKC2(S)-80	EKR2-33
EKQ1-80/3363	63~80						
EKQ1-95/3365	80~93	95	45	45	25	EKC1/EKC2(S)-95	EKR2-33

Dimension(mm)

EKQ1-09~32(Steel base + Plastic cover)



EKQ1-40~95(Steel base + Steel cover)



Note: Dimension with * for EKQ1-25~32



EKQ2-09/18



EKQ2-25/32



EKQ2-40~95

Description

EKQ2 series magnetic starter is suitable for using in the circuits the rated voltage up to 660V, AC 50Hz or 60Hz, rated control power to 45kW and current to 95A. It is used to control the direct start and stop of the motor, and the starter with thermal overload relay protects the motor from overload and phase failure.

Standard: IEC/EN 60947-4-1.

Type Designation

EK	Q	2	-	25	P
↓	↓	↓		↓	↓
①	②	③		④	⑤

Code	Meaning
①	Company code
②	DOL Electromagnetic Starter
③	Design sequence Number

Code	Meaning
④	Current degree
⑤	Design code: P: Push button; H: Button with lamp

Operation and Installation Condition

- Altitude: ≤2000m.
- Ambient air temperature: -5°C~+40°C, average temperature of 24 hours must below +35°C.
- Relative humidity: the maximum temperature of 40 degrees, the air relative humidity not exceed 50%, at a lower temperature can allow for a higher relative humidity. The wettest month's average lowest temperature must be below 25°C, the max relative humidity of that month should not exceed 90%. If humidity changes as a result of occasional gel generated, should eliminate it.
- Installation position: The installation degree of the tilt and vertical plane should not exceed 5°.
- In a non-explosive hazardous medium, and there is no place in the medium that is sufficient to corrode metals and destroy insulation gases and conductor dust.
- Where there is rain and snow protection and there is no steam.
- Shock vibration: Products should be installed and used without severe shake, shock and vibration of the place.

Specifications

- Specifications for magnetic starter (sheet1)
- Coil rated control power supply voltage Us can be divided into AC 50Hz or 60Hz: 36V, 110V, 220V, 380V.
- Operating condition: Coil pull-in voltage is (85%~110%) Us; Release voltage is (20%~75%) Us.

Table 1

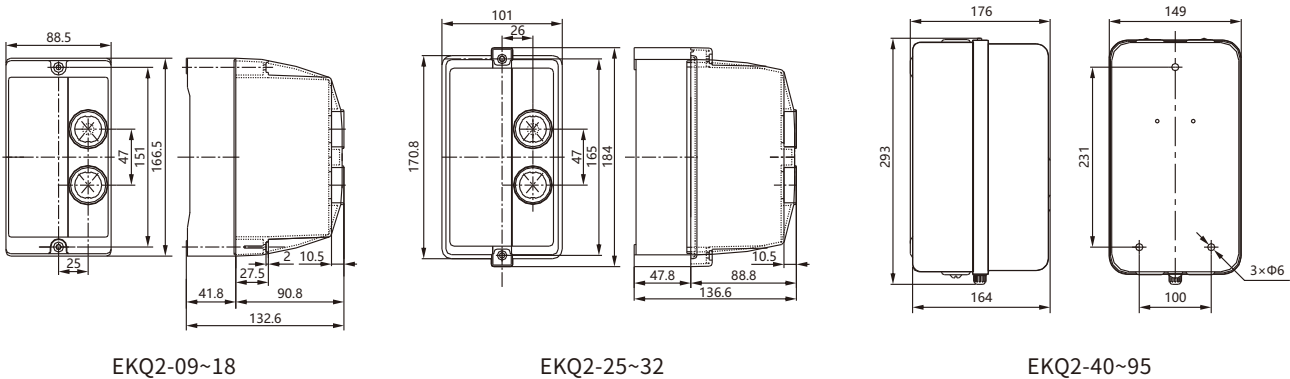
Type	Rated current Ie A	Maximum power duty (kW)			Matched AC contactor type	Matched thermal relay	Setting current range (A)
		AC-3					
		660V	380V	220V			
EKQ2-09	9	5.5	4	2.2	EKC1/EKC2S-09	EKR2-13	0.1~0.16, 0.16~0.25 0.25~0.4, 0.4~0.63 0.63~1, 1~1.6 1.25~2, 1.6~2.5 2.5~4, 4~6, 5.5~8
EKQ2-12	12	7.5	5.5	3	EKC1/EKC2S-12		7~10, 9~13
EKQ2-18	18	10	7.5	4	EKC1/EKC2S-18		12~18
EKQ2-25	25	15	11	5.5	EKC1/EKC2S-25		17~25
EKQ2-32	32	18.5	15	7.5	EKC1/EKC2S-32		23~32
EKQ2-40	40	18.5	18.5	11	EKC1/EKC2S-40	EKR2-33	23~32, 30~40 37~50, 48~65 55~70, 63~80 80~93
EKQ2-50	50	22	22	15	EKC1/EKC2S-50		
EKQ2-65	65	30	30	18.5	EKC1/EKC2S-65		
EKQ2-80	80	37	37	22	EKC1/EKC2S-80		
EKQ2-95	95	45	45	25	EKC1/EKC2S-95		

Structural Features

The starter adopts a protective structure with a protective cover of IP55 and is internally composed of a EKC2S AC contactor and a EKR2 thermal overload relay. The entry and exit wiring of the starter adopts the knockout type wiring hole, and the user can selectively knock and connect the four knockout holes according to the wiring requirements. The cover and the base of the starter can be completely separated, and the user is very convenient to install and maintain; the button adopts the EKP2 series push button switch assembly to realize the start and stop of the starter, and it will be safe and reliable.

In order to improve the protective performance of the starter, the starter must be installed vertically. The mounting screws should be selected according to the size of the mounting hole. The screws should be no less than M5, and spring washers, flat washers and sealing rubber rings should be added to ensure the fastening of the starter. In addition, the knockout terminal holes should be equipped with corresponding waterproof terminals.

Dimension(mm)





EKMS2-32P



EKMS2-32R



EKMS2-80P

Overview

EKMS2 series motor protection circuit breaker (MPCB) is designed for circuits with AC voltage up to 690V and current up to 80A. It is a comprehensive protection device that integrates the functions of a disconnecter, circuit breaker, and thermal overload relay. Its main purpose is to protect various single-phase and three-phase AC motors from potential damage such as overload and short circuit.

This product has multiple functions such as isolation protection, overload protection, temperature compensation, phase failure protection, and short circuit protection, and is widely used in industrial environments, small mechanical equipment, agricultural machinery, compressors, and other fields.

Features

- Compact size & space saving
- With overload & short circuit protection
- High breaking capacity
- Sensitive to single phasing
- Visual fault indication
- Simple & easy installation
- Wide range of accessories
- Available in open execution / in plastic enclosure

Technical Data

Model	EKMS2-32P	EKMS2-32R	EKMS2-80P
Standard	IEC 60947-2 & IEC 60947-4-1		
Operation type	Pushbutton	Rotary knob	Pushbutton
Utilization category	IEC 60947-2(circuit breaker)	A	
	IEC 60947-4-1 (motor starter)	AC-3	
Frame rated current Inm	32A	32A	80A
Number of poles	3		
Rated thermal current range Ith	0.16-32A	0.16-32A	25-80A
Rated operational voltage Ue	230/240, 400/415, 440, 500, 690		
Rated frequency	50/60Hz		
Rated insulation voltage Ui	690V		
Rated impulse withstand voltage Uimp	6kV		
Tripping test	Yes		
Tripping class (IEC 60947-4-1)	10A		

Release type	thermal-magnetic	
Operations/hour	120 cycles	
Electrical life	10000 cycles	1500 cycles
Mechanical life	100000 cycles	8500 cycles
Degree of protection (IEC 60529)	IP20, IP55 with Enclosure	
Pollution degree	3	
Ambient temperature	-25°C to +40°C	
Altitude	≤2000m	
Installation	Mounting on 35mm Din rail compliance with EN 60715	
Type of terminals	Screw	
Tightening torque	2 N.m	5 N.m
Internal accessories	Aux, alarm, shunt trip, UVR	Aux

Rated Ultimate and Service Short-circuit Breaking Capacity

Code Pushbutton	Code Rotary	Rated current of release In(A)	Setting current regulation range (A)	Rated ultimate short-circuit breaking Icu (kA) Rated service short-circuit breaking capacity Ics (kA)			
				400/415V		690V	
				Icu	Ics	Icu	Ics
EKMS2-3201P	EKMS2-3201R	0.16	0.1~0.16	100	100	100	100
EKMS2-3202P	EKMS2-3202R	0.25	0.16~0.25	100	100	100	100
EKMS2-3203P	EKMS2-3203R	0.4	0.25~0.4	100	100	100	100
EKMS2-3204P	EKMS2-3204R	0.63	0.4~0.63	100	100	100	100
EKMS2-3205P	EKMS2-3205R	1	0.63~1	100	100	100	100
EKMS2-3206P	EKMS2-3206R	1.6	1~1.6	100	100	100	100
EKMS2-3207P	EKMS2-3207R	2.5	1.6~2.5	100	100	3	2.25
EKMS2-3208P	EKMS2-3208R	4	2.5~4	100	100	3	2.25
EKMS2-3210P	EKMS2-3210R	6.3	4~6.3	100	100	3	2.25
EKMS2-3214P	EKMS2-3214R	10	6~10	100	100	3	2.25
EKMS2-3216P	EKMS2-3216R	14	9~14	15	7.5	3	2.25
EKMS2-3220P	EKMS2-3220R	18	13~18	15	7.5	3	2.25
EKMS2-3221P	EKMS2-3221R	23	17~23	15	6	3	2.25
EKMS2-3222P	EKMS2-3222R	25	20~25	15	6	3	2.25
EKMS2-3232P	EKMS2-3232R	32	24~32	10	6	3	2.25
EKMS2-8025P	-	25	16~25	15	7.5	4	2
EKMS2-8040P	-	40	25~40	15	7.5	4	2
EKMS2-8063P	-	63	40~63	15	7.5	4	2
EKMS2-8080P	-	80	56~80	15	7.5	4	2

Selection of backup fuse

When the expected short-circuit current of the installation site is greater than the rated limit short-circuit breaking capacity of the starter, the type and melt current specification of the backup short-circuit protection fuse shall be provided.

Code Pushbutton	Code Rotary	Rated current of release In(A)	Setting current regulation range (A)	Current rating of fuse-link of back-up fuse, which I _{cc} > I _{cu} (A)									
				230/240V		400/415V		440V		500V		690V	
				aM	gL	aM	gL	aM	gL	aM	gL	aM	gL
EKMS2-3201P	EKMS2-3201R	0.16	0.1~0.16	★	★	★	★	★	★	★	★	★	★
EKMS2-3202P	EKMS2-3202R	0.25	0.16~0.25	★	★	★	★	★	★	★	★	★	★
EKMS2-3203P	EKMS2-3203R	0.4	0.25~0.4	★	★	★	★	★	★	★	★	★	★
EKMS2-3204P	EKMS2-3204R	0.63	0.4~0.63	★	★	★	★	★	★	★	★	★	★
EKMS2-3205P	EKMS2-3205R	1	0.63~1	★	★	★	★	★	★	★	★	★	★
EKMS2-3206P	EKMS2-3206R	1.6	1~1.6	★	★	★	★	★	★	★	★	★	★
EKMS2-3207P	EKMS2-3207R	2.5	1.6~2.5	★	★	★	★	★	★	★	★	16	20
EKMS2-3208P	EKMS2-3208R	4	2.5~4	★	★	★	★	★	★	★	★	25	32
EKMS2-3210P	EKMS2-3210R	6.3	4~6.3	★	★	★	★	50	63	50	63	32	40
EKMS2-3214P	EKMS2-3214R	10	6~10	★	★	★	★	50	63	50	63	32	40
EKMS2-3216P	EKMS2-3216R	14	9~14	★	★	63	80	50	63	50	63	40	50
EKMS2-3220P	EKMS2-3220R	18	13~18	★	★	63	80	50	63	50	63	40	50
EKMS2-3221P	EKMS2-3221R	23	17~23	80	100	80	100	63	80	50	63	40	50
EKMS2-3222P	EKMS2-3222R	25	20~25	80	100	80	100	63	80	50	63	40	50
EKMS2-3232P	EKMS2-3232R	32	24~32	80	100	80	100	63	80	50	63	40	50
EKMS2-8025P	-	25	16~25	-	-	250	315	-	-	-	-	160	200
EKMS2-8040P	-	40	25~40	-	-	250	315	-	-	-	-	160	200
EKMS2-8063P	-	63	40~63	-	-	315	400	-	-	-	-	200	250
EKMS2-8080P	-	80	56~80	-	-	315	400	-	-	-	-	200	250

Note: ★ indicates No back-up fuse required.

Rated power of three phase motor controlled by starter

Code Pushbutton	Code Rotary	Rated current of release In(A)	Setting current regulation range (A)	Standard rated power of three phase motor (kW)					
				AC-3, 50Hz/60Hz					
				230/240V	400V	415V	440V	500V	690V
EKMS2-3201P	EKMS2-3201R	0.16	0.1~0.16	-	-	-	-	-	-
EKMS2-3202P	EKMS2-3202R	0.25	0.16~0.25	-	-	-	-	-	-
EKMS2-3203P	EKMS2-3203R	0.4	0.25~0.4	-	-	-	-	-	-
EKMS2-3204P	EKMS2-3204R	0.63	0.4~0.63	-	-	-	-	-	0.37
EKMS2-3205P	EKMS2-3205R	1	0.63~1	-	-	-	0.37	0.37	0.55
EKMS2-3206P	EKMS2-3206R	1.6	1~1.6	-	0.37	-	0.55	0.75	1.1
EKMS2-3207P	EKMS2-3207R	2.5	1.6~2.5	0.37	0.75	0.75	1.1	11	1.5
EKMS2-3208P	EKMS2-3208R	4	2.5~4	0.75	1.5	1.5	1.5	2.2	3
EKMS2-3210P	EKMS2-3210R	6.3	4~6.3	1.1	2.2	2.2	3	3.7	4
EKMS2-3214P	EKMS2-3214R	10	6~10	2.2	4	4	4	5.5	7.5
EKMS2-3216P	EKMS2-3216R	14	9~14	3	5.5	5.5	7.5	7.5	9
EKMS2-3220P	EKMS2-3220R	18	13~18	4	7.5	9	9	9	11
EKMS2-3221P	EKMS2-3221R	23	17~23	5.5	11	11	11	11	15
EKMS2-3222P	EKMS2-3222R	25	20~25	5.5	11	11	11	15	18.5
EKMS2-3232P	EKMS2-3232R	32	24~32	7.5	15	15	15	18.5	22
EKMS2-8025P	-	25	16~25	-	11	11	-	-	18.5
EKMS2-8040P	-	40	25~40	-	18.5	18.5	-	-	30
EKMS2-8063P	-	63	40~63	-	30	30	-	-	45
EKMS2-8080P	-	80	56~80	-	37	37	-	-	55

Action characteristics of motor circuit breaker when the phases are balanced (Distribution protection)

No.	Setting current multiple	Tripping time	Expected results	Initial state	Ambient air temperature
1	1.05	t≤1h	No tripping	Cold state	+20°C ±2°C
2	1.3	t≤1h	Tripping	Right after test.1	
3	1.5	t<2min	Tripping		

Action characteristics of balanced load of each phase of the cir circuit breaker (Motor protection)

No.	Setting current multiple	Tripping time	Expected results	Initial state	Ambient air temperature
1	1.05	t≤2h	No tripping	Cold state	+20℃ ±2℃
2	1.3	t≤2h	Tripping	Right after test.1	
3	1.5	t<2min	Tripping		
4	7.2	2~10s	Tripping	Cold state	

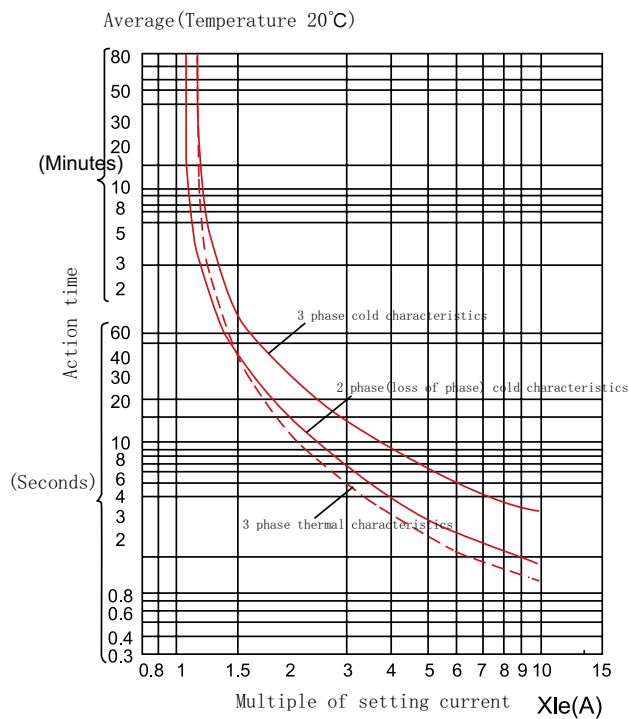
Action characteristics of the circuit breaker when the load is unbalanced (phase break)

No.	Setting current multiple		Tripping time	Expected results	Initial state	Ambient air temperature
	Any 2 phases	The other phase				
1	1	0.9	$t \geq 2h$	No tripping	Cold state	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
2	1.15	0	$t < 2h$	Tripping	Heat status (right after test.1)	

Action characteristics of instantaneous electromagnetic trip of starter

Test current	Initial state	Specified time	Expected results	Ambient air temperature
$0.8 \times 12 \times I_n$	Cold state	$t \geq 0.2s$	No tripping	$+20^{\circ}\text{C} \pm 5^{\circ}\text{C}$
$1.2 \times 12 \times I_n$	Cold state	$t < 0.2s$	Tripping	

Trip characteristics



The trip characteristics show the trip time of the switches as a function of the operating current. These are mean values of the scattering bands at 20°C ambient temperature from cold condition. Specific characteristics can be requested for any setting range if required.

Name of accessories		Accessories Model (adapt the EKMS2-32P(R))	Specification
Undervoltage release		EKMS2-AU110	110~115V,50Hz; 127V,60Hz
		EKMS2-AU220	220~240V,50Hz
		EKMS2-AU380	380~400V,50Hz; 440V,60Hz
Shunt release		EKMS2-AS110	110~150V,50Hz; 127V,60Hz
		EKMS2-AS220	220~240V, 50Hz
		EKMS2-AS380	380~400V,50Hz ; 440V,60Hz
Instantaneous auxiliary contact (Forward-mounted)		EKMS2-AE20	2NO
		EKMS2-AE11	1NO+1NC
Instantaneous auxiliary contact (Side-mounted)		EKMS2-AN20	2NO
		EKMS2-AN11	1NO+1NC
Fault signal contact and instantaneous auxiliary contact		EKMS2-AD0110	1NC+1NO
		EKMS2-AD0101	1NC+1NC
		EKMS2-AD1010	1NO+1NO
		EKMS2-AD1001	1NO+1NC
Waterproof mounting box		EKMS2-MC	IP55

Name of accessories		Accessories Model (adapt the EKMS2-32P(R))	Specification
Mounting box with emergency stop button		EKMS2-MC01	IP55
Connector			For use with LC1D contactor
Extended handle		AP02 Consists of handle + fixed seat + extension rod	Handle: Padlock can be used to lock the device in the off position, IP42
			Consists of handle + fixed seat + extension rod
			Extension rod: Made to a max. length of 350mm according to standard, customers can cut and use the thicker end on one side according to their actual needs.

Note: The accessories of EKMS2-80 specification only include 1NO + 1NC and 2 NO auxiliary contacts, and the ordering codes are EKMS2-AN20(EKMS2-80) and EKMS2-AN11(EKMS2-80).

Basic Parameters of Undervoltage Release

Rated insulation voltage U_i	690 V
Operating voltage (enables cir. breaker switch on)	$(0.85 \sim 1.1) \times U_s$
Non-operating voltage (guarantees circuit breaker switch OFF)	$(0.7 \sim 0.35) \times U_s$
Energization consumption	20.2 VA / 13 W
Consumption	7.2 VA / 2.4 W
Max. opening time	20 ms

Basic Parameters of Shunt Release

Rated insulation voltage U_i	690 V
Operating voltage (guarantee circuit breaker switch OFF)	$(0.7 \sim 1.1) \times U_s$
Consumption - Energization	20.2 VA / 13 W
Max. opening time	20 ms

Basic Parameters of Instantaneous Auxiliary Contact

Name	Rated insulation voltage U_i (V)	Utilization category	Rated operating Voltage U_e (V)	Rated operating Current I_e (A)	Agreed heating Current I_{th} (A)	Normal operating power P (W)
Auxiliary contact (Forward-mounted)	250	AC-15	24	2	2.5	48
			48	1.25	2.5	60
			110/127	1	2.5	127
			230/240	0.5	2.5	120
		DC-13	24	1	2.5	24
			48	0.3	2.5	15
			60	0.15	2.5	9
Auxiliary contact (Side-mounted)	690	AC-15	48	6	6	300
			110/127	4.5	6	500
			230/240	3.3	6	720
			380/415	2.2	6	850
			440	1.5	6	650
			500	1	6	500
			690	0.6	6	400
		DC-13	24	6	6	140
			48	5	6	240
			60	3	6	180
			110	1.3	6	140
			220	0.5	6	120

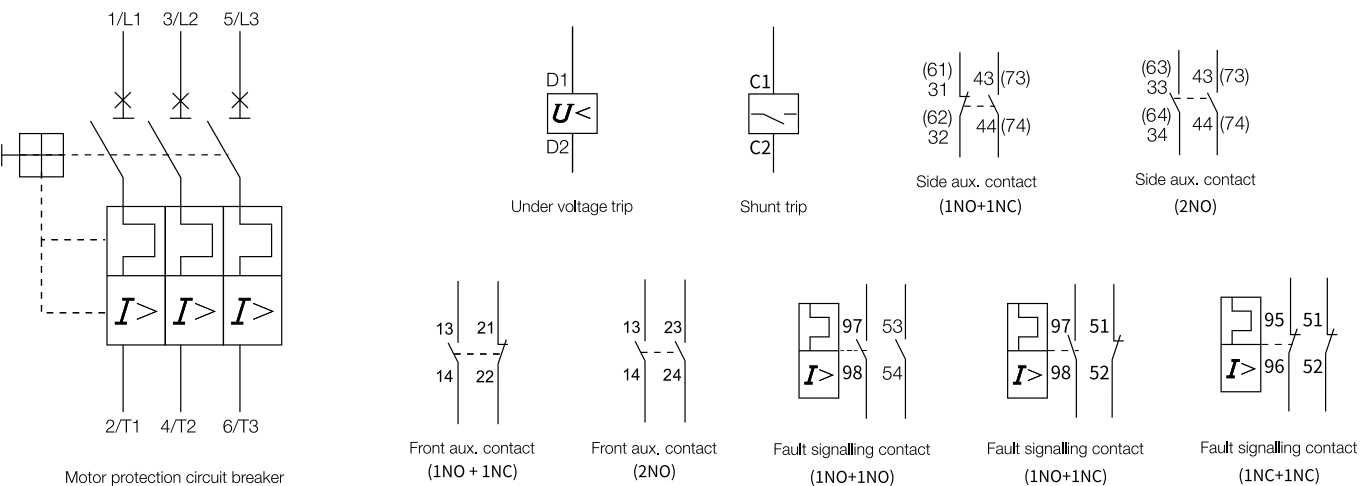
Basic Parameters of The Fault Signal Contact and Instantaneous Auxiliary Contact

Rated insulation voltage U_i (V)	Utilization category	Rated operating Voltage U_e (V)	Rated operating Current I_e (A)	Agreed heating Current I_{th} (A)	Normal operating power P (W)	Operating performance (time)
250	AC-14	24	1.5	2.5	36	1000
		48	1	2.5	48	1000
		110/127	0.5	2.5	72	1000
		230/240	0.3	2.5	72	1000
	DC-13	24	1	2.5	24	1000
		48	0.3	2.5	15	1000
		60	0.15	2.5	9	1000

Non-normal Making and Breaking Capacity of Fault Signal Contact and Instantaneous Auxiliary Contact

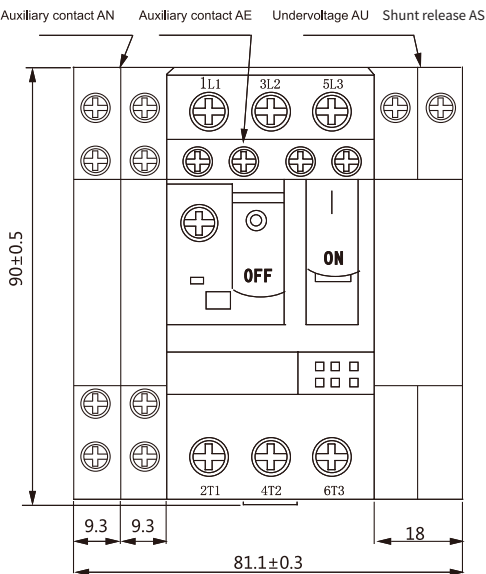
Use type	Connection			Disconnection			On-off operation cycles and operating frequency		
	I/Ie	U/Ue	CosΦ or T0.95	I/Ie	U/Ue	CosΦ or T0.95	Operating cycles	Operating cycles per minutes	Energize Time
AC-14	6	1.1	0.7	6	1.1	0.7	10	2	0.05
AC-15	10	1.1	0.3	10	1.1	0.3	10	2	0.05
DC-13	1.1	1.1	6Pe	1.1	1.1	6Pe	10	2	0.05

Circuit Diagram

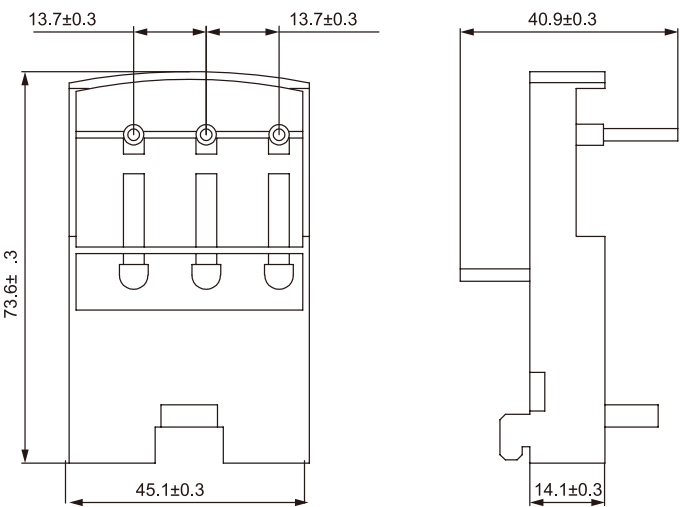


Accessory Mounting Position and Dimensions

• Accessory mounting position and dimensions



• Waterproof mounting box dimensions



EKMS2 MPCB

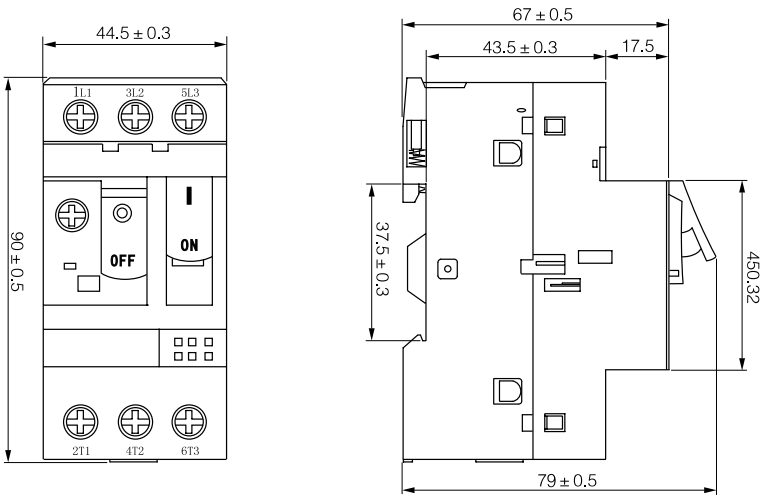


Motor Protection Circuit Breaker

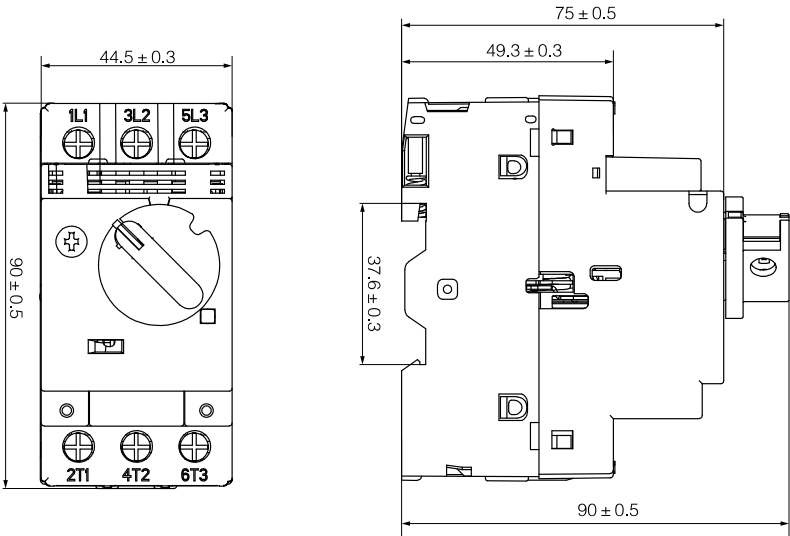
Standard_ IEC60947-2
IEC60947-4-1

• EKMS2 Series Dimensions

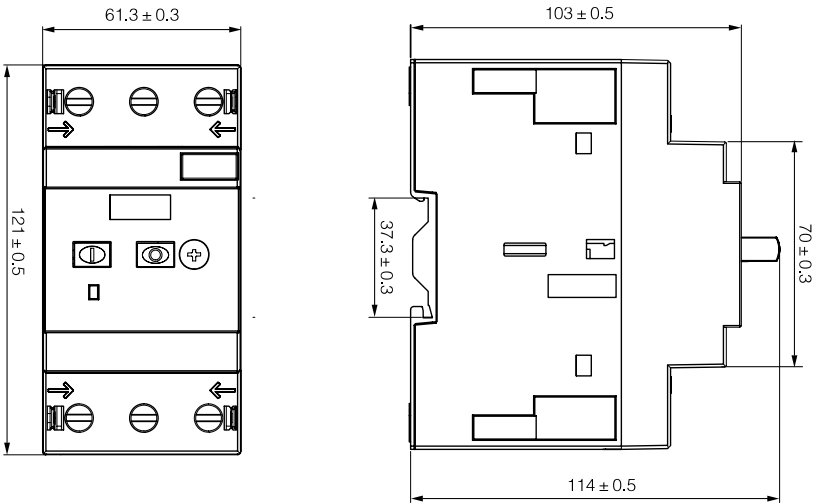
EKMS2-32P



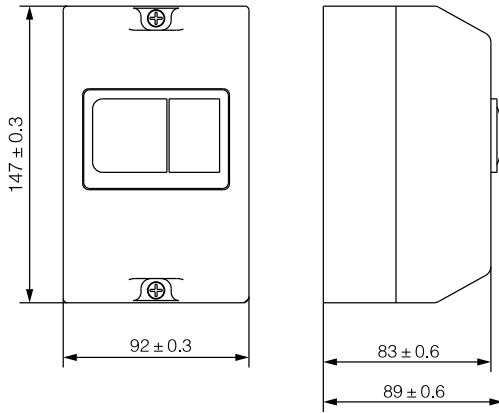
EKMS2-32R



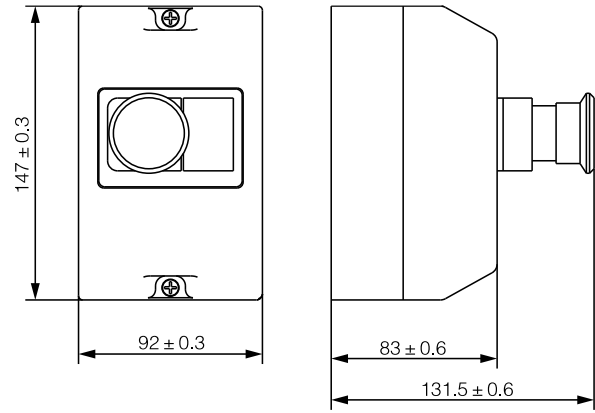
EKMS2-80P



• Waterproof box Dimensions

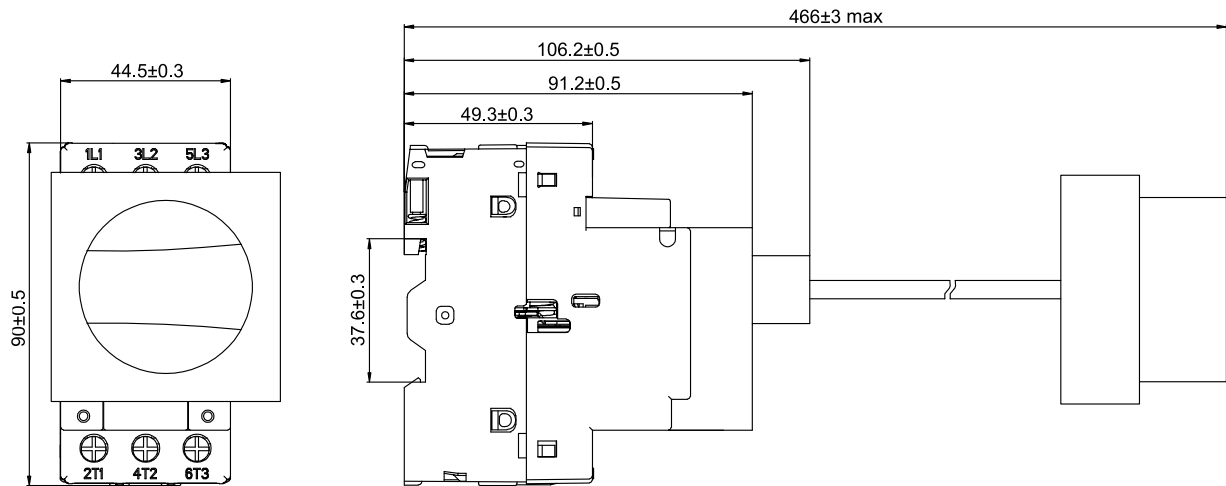


EKMS2-MC
Waterproof mounting box



EKMS2-MC01
Waterproof mounting box with
emergency stop button

• Dimension of knob type product extension handle



EKMS2-32P AP02 Button Product Extended Handle

LED INDICATOR

Application

EKLD series indicator light are used in the telecommuni-cation and electrical circuit of AC 50Hz or 60Hz, rated working voltage 380V and below DC working voltage 220V or below for indicator signal, accident signal, fault signal and other indicator signals, they meet with the standard: IEC60947-5-1.

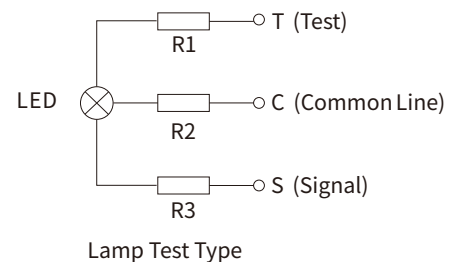
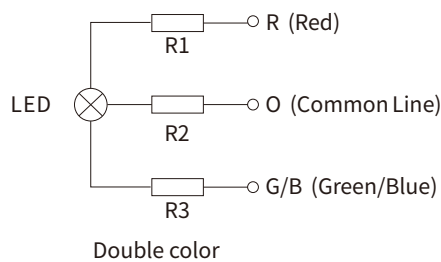
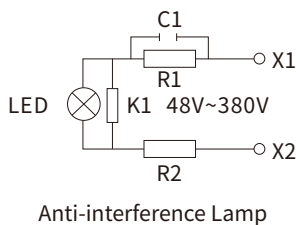
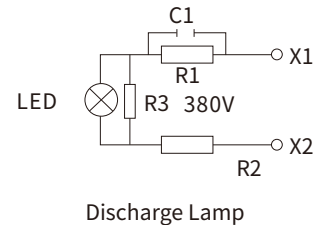
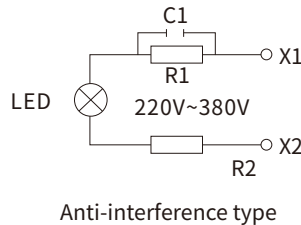
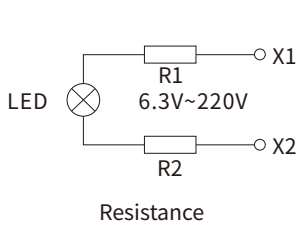
Structure and Function

EKLD series indicator lights adopt LED lamp with the characteristic of long life and low energy consumption, its concealed terminal is both safe and creditable. The special locking nut structure makes the installation available in the dimension of EKLD-22: φ22.5 mm to φ25.5mm, EKLD-16: φ16.5 mm to φ16.5mm.



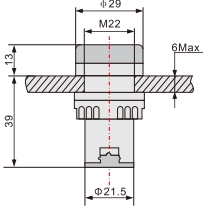
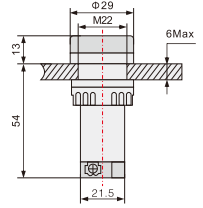
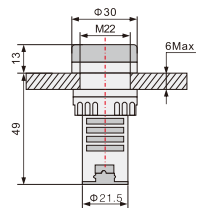
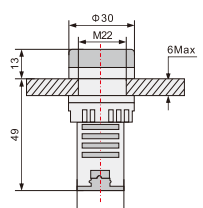
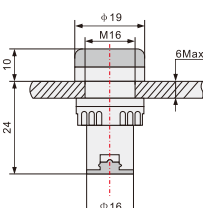
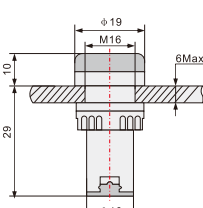
ELECTRIC

Schematic Diagram



Man Technical Parameter

Operation temperature: -5℃~+40℃	Power-frequency withstand voltage: 2500V, min							
Operation humidity: 45%~85%	Installation degree: III							
Pollution degree: 3	Degree of protection: IP65							
Rated operation voltage	(Ue)	AC/DC 9V	AC/DC 12V	AC/DC 24V	AC/DC 48V	AC/DC 110V	AC/DC 220V	AC 380V
Rated operation current	(Ie)≤80mA	≤20mA						
Base colour	Green	Yellow	Red	Blue	White			
Electrical Life(h)	≥3000							
Brightness	60							

Indicator	Description	Voltage	Color	Type	Outline Dimensions
	Protected LED Indicator φ 22	6.3V AC/DC	Red	EKLD-22DS	
		12V AC/DC	Yellow	General type	
		24V AC/DC	Green	EKLD-22DKS	
		48V AC/DC	Blue	Anti-interference type	
		110V AC/DC	White	EKLD-22DFS	
		220V AC/DC		Discharge Lamp	
		380V AC			
	Protected LED Indicator Double color φ 22	6.3V AC/DC	Red	EKLD-22DRG	
		12V AC/DC	Green		
		24V AC/DC			
		48V AC/DC			
		110V AC/DC	Red	EKLD-22DRB	
		220V AC/DC	Blue		
		380V AC			
	Protected LED Indicator Buzzer φ 22	6.3V AC/DC	Red	EKLD-22MSD	
		12V AC/DC		Flash buzzer type	
		24V AC/DC			
		48V AC/DC			
		110V AC/DC			
		220V AC/DC	Black	EKLD-22MFD	
		380V AC		Buzzer type	
	Protected LED Indicator Lamp Test Type φ 22	6.3V AC/DC	Red	EKLD-22DLT	
		12V AC/DC	Yellow		
		24V AC/DC	Green		
		48V AC/DC	Blue		
		110V AC/DC	White		
		220V AC/DC			
		380V AC			
	Protected LED Indicator φ 16	6.3V AC/DC	Red	EKLD-16DS	
		12V AC/DC	Yellow		
		24V AC/DC	Green		
		48V AC/DC	Blue		
		110V AC/DC	White		
		220V AC/DC			
		380V AC			
	Protected LED Indicator φ 16	6.3V AC/DC	Red	EKLD-16D	
		12V AC/DC	Yellow		
		24V AC/DC	Green		
		48V AC/DC	Blue		
		110V AC/DC	White		
		220V AC/DC			
		380V AC			

Type Designation

EKLV22	□	□	□	
①	②	③	④	
				① Digital display meter model
				② R means round, S means square
				③ A means AC, D means DC
				④ V means voltage meter

Summary

Mini digital display voltage meter

EKLV22 series products two-wire three-way AC, DC digital display voltage meter.

- Products use 2.5 inches long life LED digital tube display with compact square enclosure, convenient installation.
- Products measurement range AC 80V-500V, DC 5-120V, frequency 50/60Hz.
- Products use two wire system, AC connected in zero line and fire line directly,
- DC have polarity reverse connection protection function.

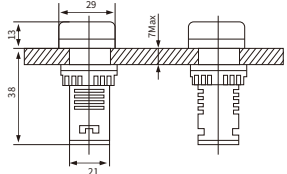
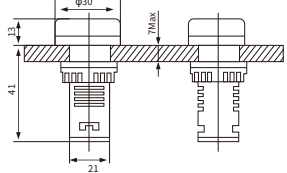
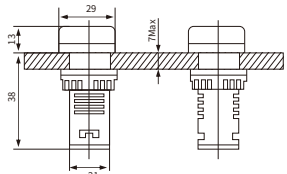
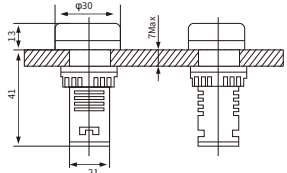
Working Condition

- Ambient temperature: -10 ~ +55°C
- Air relative humidity: 10-80%(no condensation)
- Working pressure: 80-106KPa
- Sunniness: no sunniness

Technical parameter

- Working voltage: AC 80-500V, DC 8-150V
- Working frequency: 50/60Hz
- Working current: ≤20MA
- Measuring accuracy: 1.0
- Measuring rate: <200MS/time
- Mounting-hole size: φ22mm



Style	Name	Type	Color	Voltage	Outline Dimensions
	φ22 LED Voltage Meter	EKLV22-RAV	- White - Green - Red - Yellow - Blue	AC80-500V	
	φ22 LED Voltage Meter	EKLV22-SAV	- White - Green - Red - Yellow - Blue	AC80-500V	
	φ22 LED Voltage Meter	EKLV22-RDV	- White - Green - Red - Yellow - Blue	DC5-120V	
	φ22 LED Voltage Meter	EKLV22-SDV	- White - Green - Red - Yellow - Blue	DC5-120V	

Pushbutton Switch

Application

EKPB2- series pushbutton switches are used in industrial for controlling circuits of AC 50Hz or 60Hz, rated operation voltage 380V or below and DC operational Voltage 220V or below for controlling in magnetic starter, contactor, relay and other electrical circuits. The buttons indicators can also be used in the place with indicated light or signal. They meet with the standards :IEC60947-5-1.

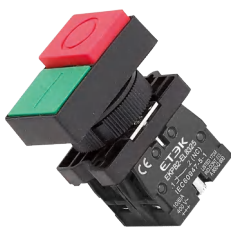
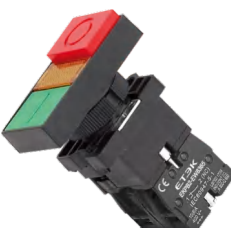


Man Technical Parameter

Operation temperature	-5℃~+40℃					
Power-frequency withstand voltage	2500V, 1min					
Operation humidity	45%~85%					
Electric durability	50×10 ⁴					
Contact resistance	≤50mΩ					
Degree of protection	IP40					
Rated insulation voltage	Ui	660V				
Conventional thermal current	Ith	10A				
Rated operation voltage	Ue	380V	220V	110V	48V	24V
Rated operation current	AC-15	2.5A	4.5	6A	8A	—
	DC-13	—	0.3A	0.6A	1.3A	2.5

Rated operational Voltage	Directness						Resistance		Transformer	
	6V	12V	24V	48V	110V	220V	380V	220V	220V	380V
LED lamp	√	√	√	—	—	—	—	—	√	√
Neon lamp	—	—	—	—	√	√	√	√	—	—
Incandescence lamp	√	√	√	√	√	√	√	—	√	√

Plastic Type	Description	Type	Scheme	color
	Flush button spring return	EKPБ2-EA11	NO	○ White
		EKPБ2-EA21	NO	● Black
		EKPБ2-EA31	NO	● Green
		EKPБ2-EA51	NO	● Yellow
		EKPБ2-EA61	NO	● Blue
		EKPБ2-EA42	NC	● Red
		EKPБ2-EA25	NO+NC	● Black
		EKPБ2-EA35	NO+NC	● Green
		EKPБ2-EA45	NO+NC	● Red
	Button with protective cover IP65	EKPБ2-EP11	NO	○ White
		EKPБ2-EP21	NO	● Black
		EKPБ2-EP31	NO	● Green
		EKPБ2-EP51	NO	● Yellow
		EKPБ2-EP61	NO	● Blue
		EKPБ2-EP42	NC	● Red
		EKPБ2-EP25	NO+NC	● Black
		EKPБ2-EP35	NO+NC	● Green
		EKPБ2-EP45	NO+NC	● Red
	Protruding button	EKPБ2-EL11	NO	○ White
		EKPБ2-EL21	NO	● Black
		EKPБ2-ELP31	NO	● Green
		EKPБ2-EL51	NO	● Yellow
		EKPБ2-EL61	NO	● Blue
		EKPБ2-EL42	NC	● Red
		EKPБ2-EL25	NO+NC	● Black
		EKPБ2-EL35	NO+NC	● Green
		EKPБ2-EL45	NO+NC	● Red
	Standard handle knob	EKPБ2-ED21	NO	∨
		EKPБ2-ED25	NO+NC	∨
		EKPБ2-ED41	NO	∨
		EKPБ2-ED45	NO+NC	∨
		EKPБ2-ED33	2NO	∨
		EKPБ2-ED53	2NO	∨
	Long handle knob	EKPБ2-EJ21	NO	∨
		EKPБ2-EJ25	NO+NC	∨
		EKPБ2-EJ41	NO	∨
		EKPБ2-EJ45	NO+NC	∨
		EKPБ2-EJ33	2NO	∨
		EKPБ2-EJ53	2NO	∨

Plastic Type	Description	Type	Scheme	color
	Key button	EKPB2-EG21	NO	
		EKPB2-EG25	NO+NC	
		EKPB2-EG41	NO	
		EKPB2-EG45	NO+NC	
		EKPB2-EG61	NO	
		EKPB2-EG65	NO+NC	
		EKPB2-EG03	2NO	
		EKPB2-EG33	2NO	
		EKPB2-EG53	2NO	
		EKPB2-EG73	2NO	
	Double head button	EKPB2-EL8325	NO+NC	
		EKPB2-EL8425	NO+NC	
	Double head button with lamp 6V~380V	EKPB2-EW8365 (Directness)	NO+NC	
		EKPB2-EW8465 (Directness)	NO+NO	
		EKPB2-EW8375 (Resistance)	NO+NC	
		EKPB2-EW8475 (Resistance)	NO+NC	
	Mushroom button spring return	φ40 EKPB2-EC21	NO	
		φ40 EKPB2-EC31	NO	
		φ40 EKPB2-EC42	NC	
		φ40 EKPB2-EC51	NO	
		φ60 EKPB2-ER21	NO	
		φ60 EKPB2-ER31	NO	
		φ60 EKPB2-ER42	NC	
		φ60 EKPB2-ER52	NO	
	Mushroom rotation auto-reset emergency button	φ30 EKPB2-ES442	NC	
		φ40 EKPB2-ES542	NC	
		φ60 EKPB2-ES642	NC	

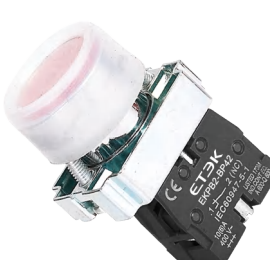
EKPB2

ETEK®

Pushbutton Switch (φ22mm)

Standard_IEC60947-5-1

Plastic Type	Description	Type	Scheme	color
	Push and pull type emergency button	φ40 EKPB2-ET42	NC	Red
		φ40 EKPB2-ET845	NO+NC	Red
	Mushroom rotation auto-reset emergency button with key	φ40 EKPB2-ES142	NC	Red
		φ40 EKPB2-ES8445	NO+NC	Red
	Indicator light 6V~380V	Directness EKPB2-EV61		White
		Directness EKPB2-EV63		Green
		Directness EKPB2-EV64		Red
		Directness EKPB2-EV65		Yellow
		Directness EKPB2-EV66		Blue
		Resistance EKPB2-EV71		White
		Resistance EKPB2-EV73		Green
		Resistance EKPB2-EV74		Red
	Flush button with lamp Directness 6V~380V	Resistance EKPB2-EV75		Yellow
		Resistance EKPB2-EV76		Blue
		EKPB2-EW3161	NO	White
		EKPB2-EW3361	NO	Green
		EKPB2-EW3462	NC	Red
		EKPB2-EW3561	NO	Yellow
		EKPB2-EW3661	NO	Blue
		EKPB2-EW3365	NO+NC	Green
	For making up body assemblies with 3, 4,5 or maximum of 6 contact blocks or replacing 1 st or and contact	EKPB2-EW3465	NO+NC	Red
		EKPB2-EZ101	NO	Green
		EKPB2-EZ103	NO+NO	Green
		EKPB2-EZ105	NO+NC	Green
		EKPB2-EZ102	NC	Red
		EKPB2-EZ104	NC+NC	Red

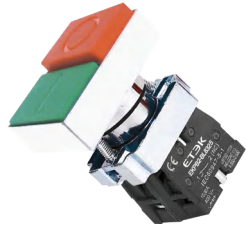
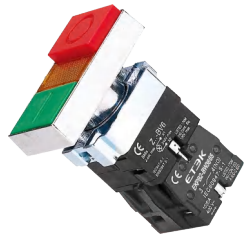
Metal Type	Description	Type	Scheme	color
	Flush button spring return	EKPB2-BA11	NO	○ White
		EKPB2-BA21	NO	● Black
		EKPB2-BA31	NO	● Green
		EKPB2-BA51	NO	● Yellow
		EKPB2-BA61	NO	● Blue
		EKPB2-BA42	NC	● Red
		EKPB2-BA25	NO+NC	● Black
		EKPB2-BA35	NO+NC	● Green
		EKPB2-BA45	NO+NC	● Red
	Button with protective cover IP65	EKPB2-BP11	NO	○ White
		EKPB2-BP21	NO	● Black
		EKPB2-BP31	NO	● Green
		EKPB2-BP51	NO	● Yellow
		EKPB2-BP61	NO	● Blue
		EKPB2-BP42	NC	● Red
		EKPB2-BP25	NO+NC	● Black
		EKPB2-BP35	NO+NC	● Green
		EKPB2-BP45	NO+NC	● Red
	Protruding button	EKPB2-BL11	NO	○ White
		EKPB2-BL21	NO	● Black
		EKPB2-BLP31	NO	● Green
		EKPB2-BL51	NO	● Yellow
		EKPB2-BL61	NO	● Blue
		EKPB2-BL42	NC	● Red
		EKPB2-BL25	NO+NC	● Black
		EKPB2-BL35	NO+NC	● Green
		EKPB2-BL45	NO+NC	● Red
	Standard handle knob	EKPB2-BD21	NO	↗
		EKPB2-BD25	NO+NC	↗
		EKPB2-BD41	NO	↘
		EKPB2-BD45	NO+NC	↘
		EKPB2-BD33	2NO	↘
		EKPB2-BD53	2NO	↘
	long handle knob	EKPB2-BJ21	NO	↘
		EKPB2-BJ25	NO+NC	↘
		EKPB2-BJ41	NO	↘
		EKPB2-BJ45	NO+NC	↘
		EKPB2-BJ33	2NO	↘
		EKPB2-BJ53	2NO	↘

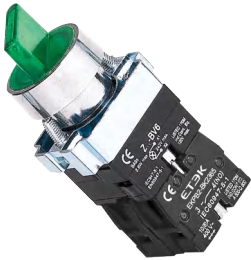
EKPB2

ETEK®

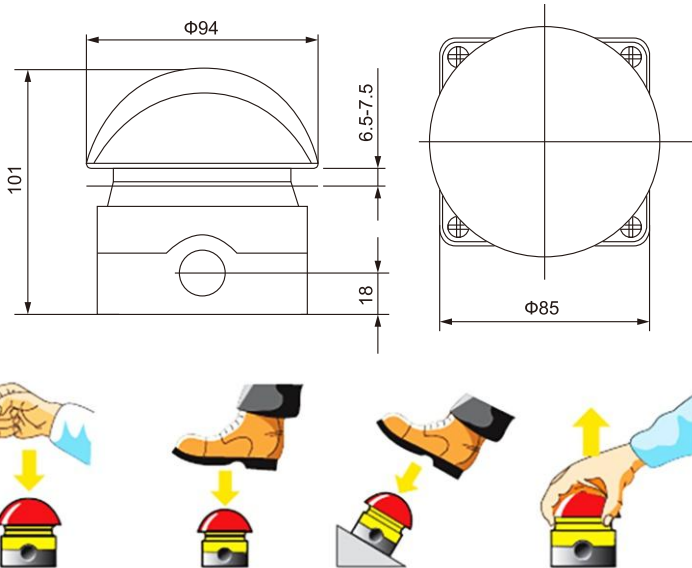
Pushbutton Switch (φ22mm)

Standard_IEC60947-5-1

Metal Type	Description	Type	Scheme	color
	Key button	EKPB2-BG21	NO	
		EKPB2-BG25	NO+NC	
		EKPB2-BG41	NO	
		EKPB2-BG45	NO+NC	
		EKPB2-BG61	NO	
		EKPB2-BG65	NO+NC	
		EKPB2-BG03	2NO	
		EKPB2-BG33	2NO	
		EKPB2-BG53	2NO	
		EKPB2-BG73	2NO	
	Double head button	EKPB2-BL8325	NO+NC	
		EKPB2-BL8425	NO+NC	
	Double head button with lamp 6V~380V	EKPB2-BW8365 (Directness)	NO+NC	
		EKPB2-BW8465 (Directness)	NO+NO	
		EKPB2-BW8375 (Resistance)	NO+NC	
		EKPB2-BW8475 (Resistance)	NO+NC	
	Mushroom button spring return	φ40 EKPB2-BC21	NO	
		φ40 EKPB2-BC31	NO	
		φ40 EKPB2-BC42	NC	
		φ40 EKPB2-BC51	NO	
		φ60 EKPB2-BR21	NO	
		φ60 EKPB2-BR31	NO	
		φ60 EKPB2-BR42	NC	
	Mushroom rotation auto-reset emergency button	φ30 EKPB2-BS442	NC	
		φ40 EKPB2-BS542	NC	
		φ60 EKPB2-BS642	NC	

Metal Type	Description	Type	Scheme	color
	Push and pull type emergency button	φ40 EKPB2-BT42	NC	Red
		φ40 EKPB2-BT845	NO+NC	Red
	Mushroom rotation auto-reset emergency button with key	φ40 EKPB2-BS142	NC	Red
		φ40 EKPB2-BS8445	NO+NC	Red
	Indicator light 6V~380V	Directness EKPB2-BV61		White
		Directness EKPB2-BV63		Green
		Directness EKPB2-BV64		Red
		Directness EKPB2-BV65		Yellow
		Directness EKPB2-BV66		Blue
		Resistance EKPB2-BV71		White
		Resistance EKPB2-BV73		Green
		Resistance EKPB2-BV74		Red
	Flush button with lamp Directness 6V~380V	EKPB2-BW3161	NO	White
		EKPB2-BW3361	NO	Green
		EKPB2-BW3462	NC	Red
		EKPB2-BW3561	NO	Yellow
		EKPB2-BW3661	NO	Blue
		EKPB2-BW3365	NO+NC	Green
		EKPB2-BW3465	NO+NC	Red
	2-Position Knob lamp 6V~380V	EKPB2-BK2365	NO+NC	Green
		EKPB2-BK2465	NO+NC	Red
	3-Position Knob lamp 6V~380V	EKPB2-BK3365	NO+NC	Green
		EKPB2-BK3465	NO+NC	Red

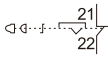
Metal Type	Description	Type	Scheme	color
	For making up body assemblies with 3, 4,5 or maximum of 6 contact blocks or replacing 1 st or and contact	EKPБ2-BZ101	NO	● Green
		EKPБ2-BZ103	NO+NO	● Green
		EKPБ2-BZ105	NO+NC	● Green ● Red
		EKPБ2-BZ102	NC	● Red
		EKPБ2-BZ104	NC+NC	● Red ● Red
	Bottombase seat of button with lamp Direct Type Neon(BA9S) LED	EKPБ2-BV6	Without bracket	
		EKPБ2-BW06	With bracket	
	Bracket	EKPБ2-BZ009	Bracket	
	For making up body assemblies with 3, 4,5 or maximum of 6 contact blocks or replacing 1 st or and contact	EKPБ2-BE102	NC	● Red
	For making up body assemblies with 3, 4,5 or maximum of 6 contact blocks or replacing 1 st or and contact	EKPБ2-BE101	NO	● Green



Foot pedal switch Series

Auxiliary contact: o=positive open safety function, in accordance with IEC/EN60947-5-1	M=normally open	B=normally closed	Contact number	Color of mushroom head
Spring reset				
- The top of the shell is grey - The bottom of the shell is black	1M 2M 0M 2M 1M 3M 0M	1B → 0B → 2B → 1B → 2B → 0B → 3B →		Black ● Red ● Green ● Yellow ●
- The top of the shell is Yellow - The bottom of the shell is grey	1M 2M 0M 2M 1M 3M 0M	1B → 0B → 2B → 1B → 2B → 0B → 3B →		Black ● Red ● Green ● Yellow ●
Pull reset				
- Self-locking - The top of the shell is Yellow - The bottom of the shell is black - Pull reset		1B →		Red ●
	1M	1B →		Red ●
		2B →		Red ●

Pictures	Reference No.	Specification
 ● Black ● Red ● Green ● Yellow	EKPBM-BGB11	Pushbutton Spring Return type Black head Gray/Black base 1NO+1NC
	EKPBM-RGB11	Pushbutton Spring Return type Red head Gray/Black base 1NO+1NC
	EKPBM-YGB11	Pushbutton Spring Return type Yellow head Gray/Black base 1NO+1NC
	EKPBM-GGB11	Pushbutton Spring Return type Green head Gray/Black base 1NO+1NC
	EKPBM-BGB20	Pushbutton Spring Return type Black head Gray/Black base 2NO
	EKPBM-RGB20	Pushbutton Spring Return type Red head Gray/Black base 2NO
	EKPBM-YGB20	Pushbutton Spring Return type Yellow head Gray/Black base 2NO
	EKPBM-GGB20	Pushbutton Spring Return type Green head Gray/Black base 2NO
	EKPBM-BGB02	Pushbutton Spring Return type Black head Gray/Black base 2NC
	EKPBM-RGB02	Pushbutton Spring Return type Red head Gray/Black base 2NC
	EKPBM-YGB02	Pushbutton Spring Return type Yellow head Gray/Black base 2NC
	EKPBM-GGB02	Pushbutton Spring Return type Green head Gray/Black base 2NC
	EKPBM-BGB21	Pushbutton Spring Return type Black head Gray/Black base 2NO+1NC
	EKPBM-RGB21	Pushbutton Spring Return type Red head Gray/Black base 2NO+1NC
	EKPBM-YGB21	Pushbutton Spring Return type Yellow head Gray/Black base 2NO+1NC
	EKPBM-GGB21	Pushbutton Spring Return type Green head Gray/Black base 2NO+1NC
	EKPBM-BGB12	Pushbutton Spring Return type Black head Gray/Black base 1NO+2NC
	EKPBM-RGB12	Pushbutton Spring Return type Red head Gray/Black base 1NO+2NC
	EKPBM-YGB12	Pushbutton Spring Return type Yellow head Gray/Black base 1NO+2NC
	EKPBM-GGB12	Pushbutton Spring Return type Green head Gray/Black base 1NO+2NC
	EKPBM-BGB30	Pushbutton Spring Return type Black head Gray/Black base 3NO
	EKPBM-RGB30	Pushbutton Spring Return type Red head Gray/Black base 3NO
	EKPBM-YGB30	Pushbutton Spring Return type Yellow head Gray/Black base 3NO
	EKPBM-GGB30	Pushbutton Spring Return type Green head Gray/Black base 3NO
	EKPBM-BGB03	Pushbutton Spring Return type Black head Gray/Black base 3NC
	EKPBM-RGB03	Pushbutton Spring Return type Red head Gray/Black base 3NC
	EKPBM-YGB03	Pushbutton Spring Return type Yellow head Gray/Black base 3NC
	EKPBM-GGB03	Pushbutton Spring Return type Green head Gray/Black base 3NC
 ● Black ● Red ● Green ● Yellow	EKPBM-BYG11	Pushbutton Spring Return type Black head Yellow/Gray base 1NO+1NC
	EKPBM-RYG11	Pushbutton Spring Return type Red head Yellow/Gray base 1NO+1NC
	EKPBM-YYG11	Pushbutton Spring Return type Yellow head Yellow/Gray base 1NO+1NC
	EKPBM-GYG11	Pushbutton Spring Return type Green head Yellow/Gray base 1NO+1NC
	EKPBM-BYG20	Pushbutton Spring Return type Black head Yellow/Gray base 2NO
	EKPBM-RYG20	Pushbutton Spring Return type Red head Yellow/Gray base 2NO
	EKPBM-YYG20	Pushbutton Spring Return type Yellow head Yellow/Gray base 2NO
	EKPBM-GYG20	Pushbutton Spring Return type Green head Yellow/Gray base 2NO
	EKPBM-BYG02	Pushbutton Spring Return type Black head Yellow/Gray base 2NC
	EKPBM-RYG02	Pushbutton Spring Return type Red head Yellow/Gray base 2NC
	EKPBM-YYG02	Pushbutton Spring Return type Yellow head Yellow/Gray base 2NC
	EKPBM-GYG02	Pushbutton Spring Return type Green head Yellow/Gray base 2NC
	EKPBM-BYG21	Pushbutton Spring Return type Black head Yellow/Gray base 2NO+1NC
	EKPBM-RYG21	Pushbutton Spring Return type Red head Yellow/Gray base 2NO+1NC
	EKPBM-YYG21	Pushbutton Spring Return type Yellow head Yellow/Gray base 2NO+1NC
	EKPBM-GYG21	Pushbutton Spring Return type Green head Yellow/Gray base 2NO+1NC
	EKPBM-BYG12	Pushbutton Spring Return type Black head Yellow/Gray base 2NC+1NO
	EKPBM-RYG12	Pushbutton Spring Return type Red head Yellow/Gray base 2NC+1NO
	EKPBM-YYG12	Pushbutton Spring Return type Yellow head Yellow/Gray base 2NC+1NO
	EKPBM-GYG12	Pushbutton Spring Return type Green head Yellow/Gray base 2NC+1NO
	EKPBM-BYG30	Pushbutton Spring Return type Black head Yellow/Gray base 3NO
	EKPBM-RYG30	Pushbutton Spring Return type Red head Yellow/Gray base 3NO
	EKPBM-YYG30	Pushbutton Spring Return type Yellow head Yellow/Gray base 3NO
	EKPBM-GYG30	Pushbutton Spring Return type Green head Yellow/Gray base 3NO
 ● Red	EKPBM-RYG03	Pushbutton Spring Return type Black head Yellow/Gray base 3NC
	EKPBM-YYG03	Pushbutton Spring Return type Red head Yellow/Gray base 3NC
	EKPBM-GYG03	Pushbutton Spring Return type Yellow head Yellow/Gray base 3NC
 ● Red	EKPBM-RYB01	Pushbutton Locking press-button type Red head Yellow/Black base 1NC
	EKPBM-RYB11	Pushbutton Locking press-button type Red head Yellow/Black base NO+NC
	EKPBM-RYB10	Pushbutton Locking press-button type Red head Yellow/Black base 1NO

Plastic Type	Description	Type	Scheme	Marking on legend	Marking push button
	1 green flush pushbutton spring return	EKCB-B101H29	NO	Start	●
		EKCB-B102		—	ⓘ
		EKCB-B103		—	●
		EKCB-B101		—	●
	1 red protecting pushbutton spring return marked	EKCB-B112	NC 	—	⓪
	1 Selector switch 2-positions stay put Standard black handle	EKCB-B132H29	NO	Start Stop	⊕
		EKCB-B134H29	NO	⊖	⊕
	1 red mushroom head button, $\phi 40\text{mm}$, latching Turn to release	EKCB-J174	NC	—	⓪
		EKCB-J174H29		Emergency Stop	⓪
	1 red mushroom head button, $\phi 40\text{mm}$, latching Turn to release cover with lock	EKCB-P174	NC	— Emergency Stop	⓪ ⓪
	1 red mushroom head button, $\phi 40\text{mm}$, latching Key release (Key n°445) IP40/65	EKCB-J184	NC	—	●
		EKCB-J184H29		Emergency Stop	●

Plastic Type	Description	Type	Scheme	Marking on legend	Marking push button	
	2 spring return push button 1 flush green 1 flush red	EKCB-B211H29	NO		Stop Start	
		EKCB-B213	+		—	
		EKCB-B215	NC		—	
	2 spring return pushbutton 1 flush white (black arrow) 1 flush black (white arrow)	EKCB-B222	NO		—	
		EKCB-B223	NC		—	
	2 spring return push button 2 flush green 1 flush red	EKCB-B361H29	NO		Start	
			+			
			NC		Stop	
	1 red pilot light, Directly supply ≤130★ Buld not supplied+ 2 spring return pushbuttons 1 flush green 1 flush red	EKCB-B363	LED			
			+			
			NC			
	1 red pilot light, Directly supply ≤130★ Buld not supplied+ 2 spring return pushbuttons 1 flush green 1 flush red	EKCB-B363H29	+			
			NO		Start	
					Stop	
	3 spring return pushbutton 1 flush white (black arrow) 1 flush red 1 flush black (white arrow)	EKCB-B324	NO		—	
			+			
	3 spring return pushbutton 1 flush white (black arrow) 1 flush red 1 flush black (white arrow)	EKCB-B334	NC		—	
			+			
	2 spring return pushbutton + 1 Mushroom button	EKCB-B339	NO		—	
			+			
	2 spring return pushbutton + 1 Mushroom button	EKCB-B393	NC		—	
			+			
	2 spring return pushbutton + 1 Mushroom button	EKCB-B393	NO		—	
			+			

Push Button Station Enclosure Ø22mm -----



Product Overview

EKCB push button enclosures are designed for 22mm diameter pushbuttons, switches, and pilot lights. These enclosures help protect push button operators from damage and wear, thereby preserving the integrity of sensitive electrical contacts.

- Type: 1 hole to 5 holes, 60mm and 73mm height available.
- ABS non-flame-retardant materials. (self-extinguishing material can be customized)
- EN60529 IP65 protection grade.
- Colors: Grey box; Yellow or White cover.
- Threaded cable entry with membrane conduit knock: PG13.5 or M20 glands.
- Temperature range: -40°C to +100°C

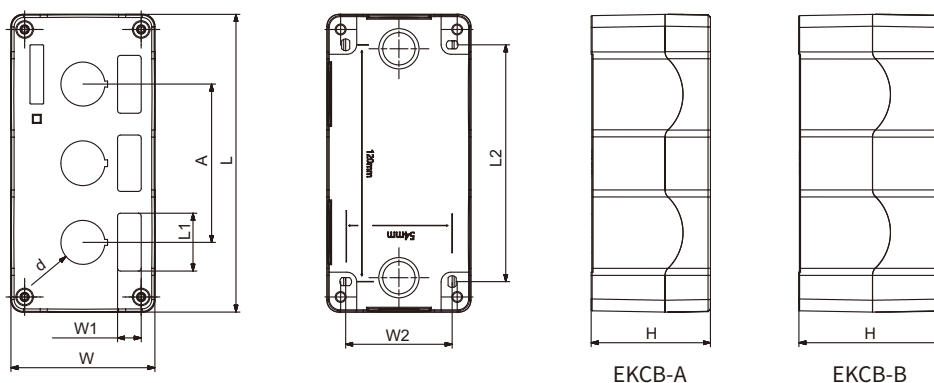
Description

Type	Cover Colour	Model	Description
1 Hole	White	EKCB-A1W	IP65 Pushbutton Enclosure, 1 Hole, Plastic, White, 22mm Cut Out, Height 60mm
	Yellow	EKCB-A1Y	IP65 Pushbutton Enclosure, 1 Hole, Plastic, Yellow, 22mm Cut Out, Height 60mm
2 Hole	White	EKCB-A2W	IP65 Pushbutton Enclosure, 2 Hole, Plastic, White, 22mm Cut Out, Height 60mm
	Yellow	EKCB-A2Y	IP65 Pushbutton Enclosure, 2 Hole, Plastic, Yellow, 22mm Cut Out, Height 60mm
3 Hole	White	EKCB-A3W	IP65 Pushbutton Enclosure, 3 Hole, Plastic, White, 22mm Cut Out, Height 60mm
	Yellow	EKCB-A3Y	IP65 Pushbutton Enclosure, 3 Hole, Plastic, Yellow, 22mm Cut Out, Height 60mm
4 Hole	White	EKCB-A4W	IP65 Pushbutton Enclosure, 4 Hole, Plastic, White, 22mm Cut Out, Height 60mm
	Yellow	EKCB-A4Y	IP65 Pushbutton Enclosure, 4 Hole, Plastic, Yellow, 22mm Cut Out, Height 60mm
5 Hole	White	EKCB-A5W	IP65 Pushbutton Enclosure, 5 Hole, Plastic, White, 22mm Cut Out, Height 60mm
	Yellow	EKCB-A5Y	IP65 Pushbutton Enclosure, 5 Hole, Plastic, Yellow, 22mm Cut Out, Height 60mm

Push Button Station Enclosure Ø22mm

Type	Cover Colour	Model	Description
1 Hole	White	EKCB-B1W	IP65 Pushbutton Enclosure, 1 Hole, Plastic, White, 22mm Cut Out, Height 73mm
	Yellow	EKCB-B1Y	IP65 Pushbutton Enclosure, 1 Hole, Plastic, Yellow, 22mm Cut Out, Height 73mm
2 Hole	White	EKCB-B2W	IP65 Pushbutton Enclosure, 2 Hole, Plastic, White, 22mm Cut Out, Height 73mm
	Yellow	EKCB-B2Y	IP65 Pushbutton Enclosure, 2 Hole, Plastic, Yellow, 22mm Cut Out, Height 73mm
3 Hole	White	EKCB-B3W	IP65 Pushbutton Enclosure, 3 Hole, Plastic, White, 22mm Cut Out, Height 73mm
	Yellow	EKCB-B3Y	IP65 Pushbutton Enclosure, 3 Hole, Plastic, Yellow, 22mm Cut Out, Height 73mm
4 Hole	White	EKCB-B4W	IP65 Pushbutton Enclosure, 4 Hole, Plastic, White, 22mm Cut Out, Height 73mm
	Yellow	EKCB-B4Y	IP65 Pushbutton Enclosure, 4 Hole, Plastic, Yellow, 22mm Cut Out, Height 73mm
5 Hole	White	EKCB-B5W	IP65 Pushbutton Enclosure, 5 Hole, Plastic, White, 22mm Cut Out, Height 73mm
	Yellow	EKCB-B5Y	IP65 Pushbutton Enclosure, 5 Hole, Plastic, Yellow, 22mm Cut Out, Height 73mm

Dimension(mm)



Model	L	W	H	L1	W1	L2	W2	A	d
EKCB-A1	73	73	60	29	12	40	54	-	Ø22
EKCB-A2	111	73	60	29	12	80	54	40	Ø22
EKCB-A3	151	73	60	29	12	120	54	80	Ø22
EKCB-A4	191	73	60	29	12	160	54	120	Ø22
EKCB-A5	231	73	60	29	12	200	54	160	Ø22
EKCB-B1	73	73	73	29	12	40	54	-	Ø22
EKCB-B2	111	73	73	29	12	80	54	40	Ø22
EKCB-B3	151	73	73	29	12	120	54	80	Ø22
EKCB-B4	191	73	73	29	12	160	54	120	Ø22
EKCB-B5	231	73	73	29	12	200	54	160	Ø22



Introduction

The EKRS series rotary switch mainly applies to 440V and below, AC 50Hz or 240V and below DC circuits. For breaking and closing, change-over of circuits under unfrequently manual operation. And the typical application are: control switch of 3 phase motors, control switch of switch gear, control switch of instruments, and change-over switch of machinery and welding machine.

- The series comply with the IEC 60947-3, IEC 60947-5-1.
- The EKRS26 series have 8 current ratings: 10A, 20A, 25A, 32A, 63A, 125A, 160A and 315A.
- The EKRS26 series rotary switch were designed for multiple functions, wide variety of applications.
- The EKRS26-10, EKRS26-20, EKRS26-25, and EKRS26-32F have finger protection terminals.
- Both of them are applicable in circuits when an physical control is required.
- We can equip protective box for 20A, 25A, 32A and 63A.

Working conditions

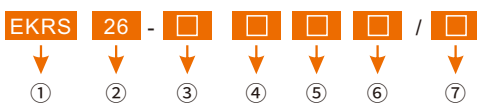
- Ambient temperature do not exceed 40°C, and the average temperature, measured over a period of 24 hours, do not exceed 35°C
- Ambient temperature should not be below -25°C
- Should Not be installed over 2000m above sea level
- The humidity should not exceed 50% when the ambient temperature is 40°C and higher humidity is allowed for lower temperature

Installation conditions

- A clean environments is required
- Please follow our manual

Type Designation

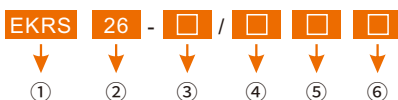
Use as control switches



①	Rotary switch (Cam switch)
②	Product code
③	Rated thermal current
④	Code of the degree of rotation
⑤	Character code
⑥	Code for contact diagram of the switch
⑦	Number of layers

Re: Character code represent the rotating type, for instance, we have limited movement, spring return and limited movement with spring return. Code of the degree of rotation: 30°(3); 45°(4); 60°(6); 90°(9). 30°spring return, 60°limited movement(36); 30°spring return, 90°limited movement(39).

Use as motor switches



①	Rotary switch (Cam switch)
②	Product code
③	Rated thermal current
④	Rated power of motor(3 phase AC)
⑤	Usage Code
⑥	Number of layers

Re1: usage code (1) Q for start and run (2) N for start and reversing (3) S start and run at 2speed (4) SN for start and reversing of 2 speed motor (5) M16 for start and reversing of 3 speed motor
Re2: switches in this category normally rotated at 60° or 90°. And the SN normally rotated at 45°.

Use as control switch for a main circuit

①	Rotary switch (Cam switch)
②	Product code
③	Rated working current
④	Number of poles: 2 poles(2), 3 poles(3), and 4 poles(4)

Re: switches in this category
normally rotated at 60° or 90°

Classification

1. Classified by utilization

- Change-over switch
- Motor switch
- Control switch

2. Classified by operation

- Limited movement
- Spring return
- Limited movement with spring return

3. Classified by contact system

- Switches with limited movement could have 12 layers in maximum (for 32 A and below). And for 63 A and above could have 8 layers in maximum
- Switches with spring return could have 3 layers in maximum
- Motor switches could have 6 layers in maximum

4. Diagram for the operation and position of handle

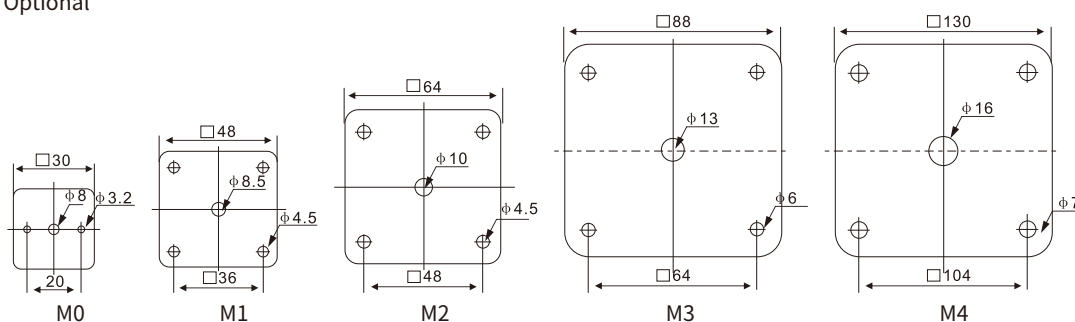
Operation angle	Character code	Position of handle			
		30° Rotation	45° Rotation	60° Rotation	90° Rotation
Spring retuen	A	0° ← 30°	0° ← 45°	0° ← 60°	0° ← 90°
	B	30° → 0° ← 30°	45° → 0° ← 45°	60° → 0° ← 60°	90° → 0° ← 90°
	X	60° → 30° → 0° ← 30° ← 60°	90° → 45° → 0° ← 45° ← 90°		
	Y	90° → 60° → 30° → 0° ← 30° ← 60° ← 90°			
Limited movement	C	0° 30°	0° 45°	0° 60°	
	D	30° 0° 30°	45° 0° 45°	60° 0° 60°	
	E	30° 0° 30° 60°	45° 0° 45° 90°	60° 0° 60° 120°	
	F	60° 30° 0° 30° 60°	90° 45° 0° 45° 90°	60° 0° 60° 120°	
	G	60° 30° 0° 30° 60° 90°	90° 45° 0° 45° 90° 135°	120° 60° 0° 60° 120° 180°	
	H	90° 60° 30° 0° 30° 60° 90°	135° 90° 45° 0° 45° 90° 135°		
	I	90° 60° 30° 0° 30° 60° 90° 120°	135° 90° 45° 0° 45° 90° 135° 180°		
	J	120° 90° 60° 30° 0° 30° 60° 90° 120°			
	K	20° 90° 60° 30° 0° 30° 60° 90° 120° 150°			
	L	150° 120° 90° 60° 30° 0° 30° 60° 90° 120° 150°			
	M	150° 120° 90° 60° 30° 0° 30° 60° 90° 120° 150° 180°			
	N		45° 45°	30° 30°	
	P				90° 0° 90°
	T				0° 90°
V				90° 0°	
R				270° 0° 90° 180°	
Limited movement with spring return	Q	30° 0° ← 30°	135° 90° 45° 0° ← 45°		
	S	30° → 0° 60°	135° 90° 45° 0° ← 45°		
	W		90° → 45° 0° 45° ← 90°		
	Z	30° → 90° 0° ← 30°	135° → 90° 0° ← 45°		

Escutcheon plate and Handle

Escutcheon plate Type pf Handle

Type of handle	Color	Escutcheon plate					Type of handle	Color	Escutcheon plate				
		M0	M1	M2	M3	M4			M0	M1	M2	M3	M4
R Type 	Black		●	●	●		I Type 	Black	●	●	●	●	●
	Red			●	●			Red		●	●		
	White							White					
	Gray							Gray					
	Yellow							Yellow		●			
R2 Type 	Black		●	●			B Type 	Black		●	●		
	Red							Red		●			
	White							White			●		
	Gray							Gray					
	Yellow							Yellow					
F type 	Black	●	●	●			L Type 	Black			●		
	Red							Red					
	White							White					
	Gray							Gray					
	Yellow							Yellow					
H Type 	Black			●			O Type 	Black			●		
	Red							Red					
	White							White					
	Gray							Gray					
	Yellow							Yellow					
P Type 	Black			●	●	●	K Type 	Black			●	●	
	Red							Red					
	White							White					
	Gray							Gray					
	Yellow							Yellow					

Re: ● Standard ● Optional



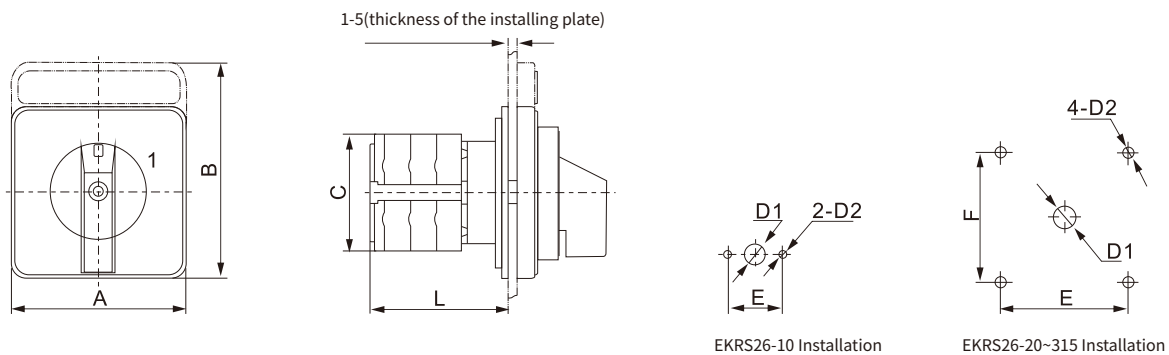
Description	Escutcheon plate						Type of handle										Rotating angle				Maximum Number of Layers		
	M0	M1	M1B	M2	M2B	M3	R	R2	F	I	R	H	I	O	P	K	30°	45°	60°	90°	12	10	8
EKRS26-10	●								●	●							●	●	●	●		●	
EKRS26-20		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
EKRS26-25		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
EKRS26-32				●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●	●		
EKRS26-63				●	●	●	●	●	●	●		●	●	●	●	●	●	●	●	●			●
EKRS26-125						●	●								●	●	●	●	●	●			●
EKRS26-160						●	●								●	●	●	●	●	●			●
EKRS26-315									●						●								

Re: M1B M2B Plate should be installed by self tapping screw



Dimensions and Installation

Square Escutcheon Plate and Rectangular Escutcheon Plate



EKRS26-10 Installation

EKRS26-20~315 Installation

Description	Escutcheon plate	Dimensions(mm)				Installation(mm)			
		A	B	C	L	E	F	D1	D2
EKRS26-10	M0 square	30	30	28	22+8n	20		φ8	φ3.2
	M1 square	48	48	43	22+9.6n	36	36	φ8.5	φ4.5
EKRS26-20	M1 rectangular	48	60	43	22+9.6n	36	36	φ8.5	φ4.5
	M2 square	64	64	43	25+9.6n	48	48	φ10	φ4.5
	M2 rectangular	64	80	34	25+9.6n	48	48	φ10	φ4.5
EKRS26-25	M1 square	48	48	45.2	23+12.8n	36	36	φ8.5	φ4.5
	M1 rectangular	48	60	45.2	23+12.8n	36	36	φ8.5	φ4.5
	M2 square	64	64	45.2	26.5+12.8n	48	48	φ10	φ4.5
	M2 rectangular	64	88	45.2	26.5+12.8n	48	48	φ10	φ4.5
EKRS26-32	M2 square	64	64	58	29.2+12.8n	48	48	φ10	φ4.5
	M2 rectangular	64	80	58	29.2+12.8n	48	48	φ10	φ4.5
	M3 square	88	88	58	29.2+12.8n	68	68	φ13	φ6
EKRS26-63	M2 square	64	64	66	29.2+21.5n	48	48	φ10	φ4.5
	M2 rectangular	64	80	66	29.2+21.5n	48	48	φ10	φ4.5
	M3 square	88	88	66	29.2+21.5n	68	68	φ13	φ6
EKRS26-125	M3 square	88	88	84	35+26.5n	68	68	φ13	φ6
EKRS26-160	M3 square	88	88	88	35+32.5n	68	68	φ13	φ6
EKRS26-315	M4 square	130	130	126	39.5+38.5n	104	104	φ16	φ7

Re: n for number of layers

Technical Parameters

Description		EKRS26-10	EKRS26-20	EKRS26-25	EKRS26-32	EKRS2626-63	EKRS26-125	EKRS26-160	EKRS26-315
Rated insulation voltage U_i V		660	660	660	660	660	660	660	660
Rated thermal current I_{th} A		10	20	25	32	63	125	160	315
Rated working voltage U_e V		240 440	240 440	240 440	240 440	240 440	240 440	240 440	240 440
Rated working current I_e									
AC-21A AC-22A	A	10 10	20 20	25 25	32 32	63 63	100 100	150 150	315 315
AC-23A	A	7.5 7.5	15 15	22 22	30 30	57 57	90 90	135 135	265 265
AC-2	A	7.5 7.5	15 15	22 22	30 30	57 57	90 90	135 135	265 265
AC-3	A	5.5 5.5	11 11	15 15	22 22	36 36	75 75	95 95	110 110
AC-4	A	1.75 1.75	3.5 3.5	6.5 6.5	11 11	15 15	30 30	55 55	95 95
AC-15	A	2.5 1.5	5 4	8 5	14 6				
AC-13	A		0.4	0.5					
Power	P								
AC-23A	KW	1.8 3	3.7/2.5 7.5/3.7	5.5/3 11/5.5	7.5/4 15/7.5	15/10 30/18.5	30/15 45/22	37/22 75/37	75/37 132/55
AC-2	KW	2.5 3.7	4 7.5	5.5 11	7.5 15	18.5 30	30 45	37 55	55 95
AC-3	KW	1.5 2.2	3/2.2 5.5/3	4/3 7.5/3.7	5.5/4 11/5.5	11/6 18.5/11	15/7.5 30/13	22/11 37/18.5	27/22 55/30
AC-4	KW	0.37 0.55	0.55/0.75 1.5/1.5	1.5/1.1 3/2.2	2.7/1.5 5.5/3	5.5/2.4 7.5/4	6/3 12/5.5	10/4 15/7.5	15/7.5 25/11

Re1: Neutral

Re2: The power under :

AC-23A、AC-3、AC-4 are in three phase three pole, and the denominator represents the power under single phase two poles

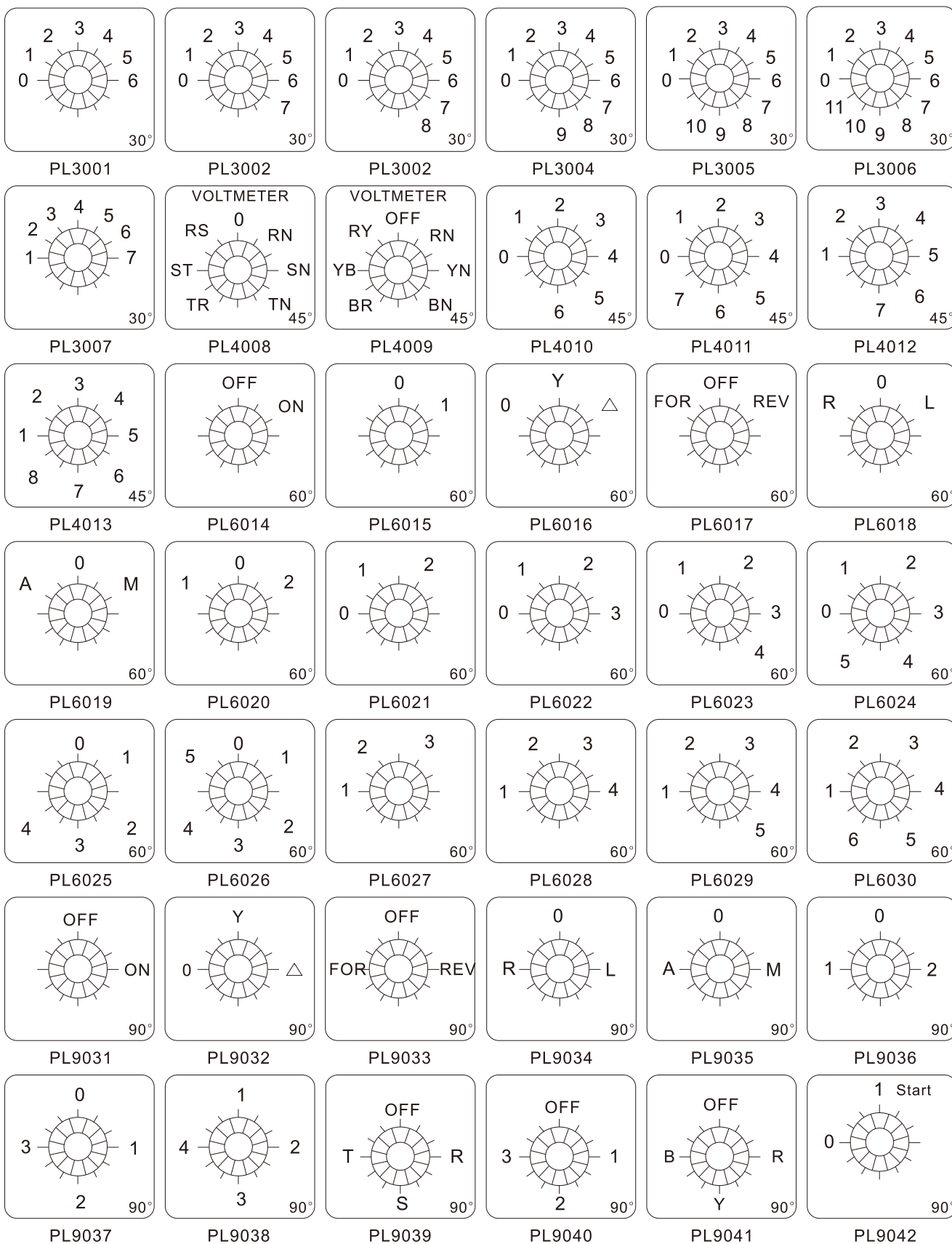
Mechanical life

Mechanical life without load : 0.1×10^6 times , operation frequency is 120 times/h.Mechanical life with load : 0.03×10^6 times, operation frequency is 120 times/h.

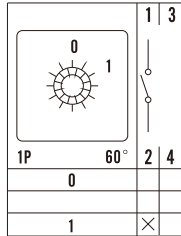
Only EKRS26 series.

EKRS26 - 20 6 C 01 M1 R
 ↓ ↓ ↓ ↓ ↓ ↓ ↓
 ① ② ③ ④ ⑤ ⑥ ⑦

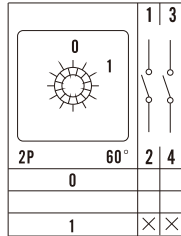
General Panel Diagram



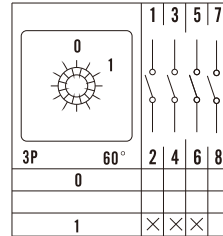
General Panel Diagram



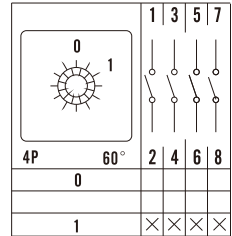
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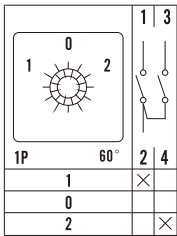
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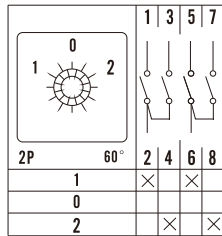
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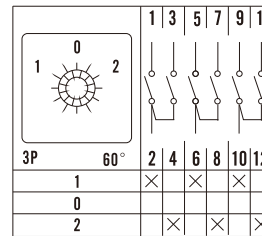
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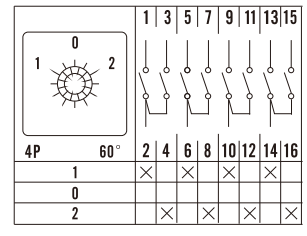
101



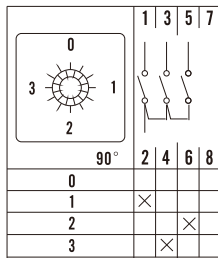
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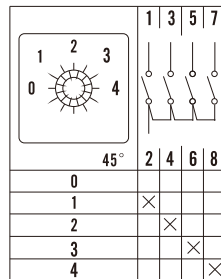
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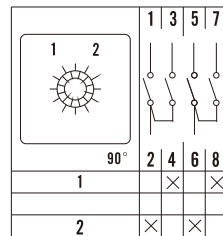
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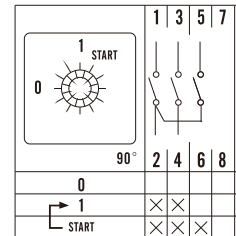
0111



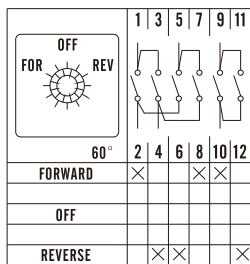
01111



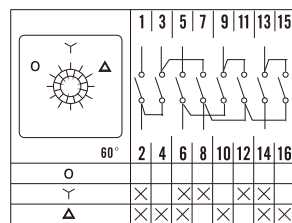
22



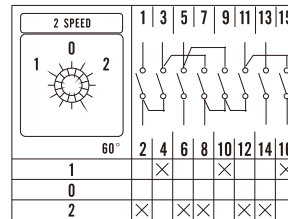
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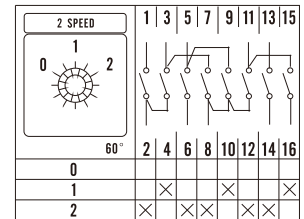
N



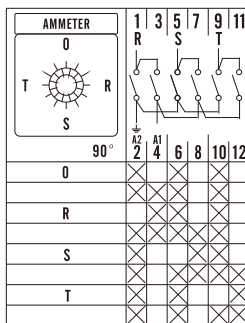
M07



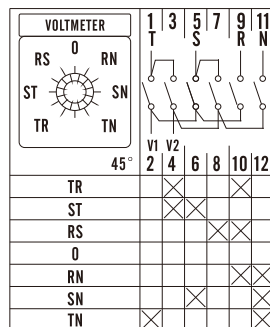
S1



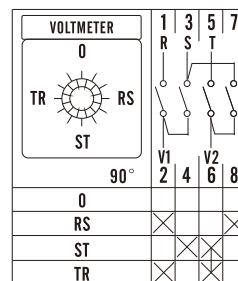
S2



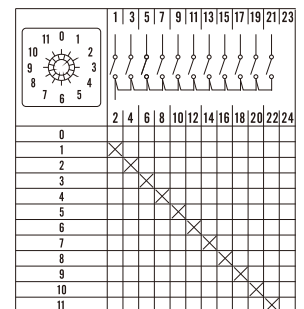
LH3



YH5



YH2



M6886



EKIS30-32/3/GS03-2



EKIS30-32/3/GSB3



EKIS30-32/3/GFB



EKIS30A-25/4/GSB4



EKIS30-32/3/D2(150)

Product Overview

EKIS30 series rotary switch is mainly used in electrical circuits with AC 50Hz, rated operating voltage below 440V, and rated current up to 100A. It is used as the main switch for ventilation equipment, air conditioning and water pump systems. It can also directly control small-capacity AC motors.

The product complies with standard IEC60947-3.

EKIS30 series switches have complete specifications, including current levels of 20A, 25A, 32A, 40A, 63A, 80A, 100A and 125A.

EKIS30 series parallel switch has small size, compact structure, exquisite material selection, good insulation, finger protection function, safety and reliability. Other contact blocks can be added to the 3-pole standard block without dismantling the switch.

The insulation distance of EKIS30 series switches is larger than other switches of the same type, the disconnection speed is fast, and it is suitable for DC switches.

Type Designation

EK	IS	30	-	32	/			/		/	
↓	↓	↓		↓		↓	↓		↓		↓
①	②	③		④		⑤	⑥		⑦		⑧

Code	Meaning
①	Company code
②	Rotary switch (Isolation switch)
③	Design sequence NO.
④	Rated thermal current

Code	Meaning
⑤	Section number
⑥	N or N11
⑦	Installation method
⑧	Handle

Operating and Installation Conditions

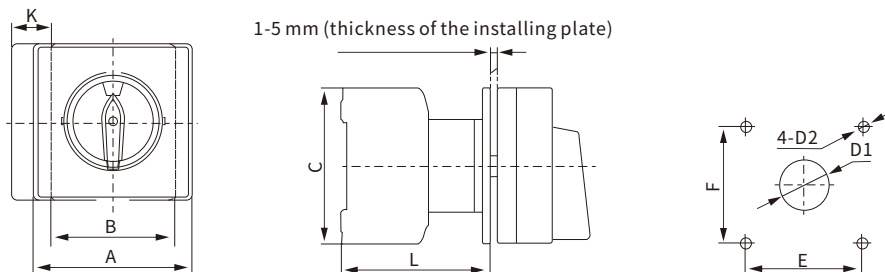
Pollution level	3
Protection degree	Without switch box: IP20; With thermoplastic sealed switch box: IP65
Ambient temperature	-25°C~+40°C, the average no more than +35°C within 24 hours.
Altitude	≤2000m
Ambient humidity	The maximum temperature of 40°C, the air relative humidity not exceed 50%, under lower 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	Install according to the instructions provided by the factory.

Technical Data

Model		EKIS30-25(20)	EKIS30-32	EKIS30-40	EKIS30-63	EKIS30-80	EKIS30-100	EKIS30-125
Rated thermal current(I _{th})(V)		25(20)	32	40	63	80	100	125
Rated working voltage(U _e)(A)		240/440						
Usage categories		AC-23A, AC-3						
Rated value I _e /kW	AC-21A	20/- 20/-	32/- 32/-	40/- 40/-	63/- 63/-	80/- 80/-	100/- 100/-	125/- 125/-
	AC-22A	20/- 20/-	32/- 32/-	40/- 40/-	63/- 63/-	80/- 80/-	100/- 100/-	125/- 125/-
	AC-23A	15/4 15/7.5	22/5.5 22/11	30/7.5 30/15	43/11 43/22	57/18.5 57/30	70/22 70/37	90/30 90/45
	AC-3	11.7/3 11.7/5.5	15/4 15/7.5	22/7.5 22/11	36/11 36/18.5	43/15 43/22	57/18.5 57/30	70/22 70/37
Current type		AC 50Hz						
Number of main contact		ON or OFF two positions						
Rated working system		8-hour working system/intermittent cycle working system, operating frequency is 30 times/h						
Electrical life		AC-23: 10000 times; AC-3: 6000 times; Auxiliary contacts: 2000 times						

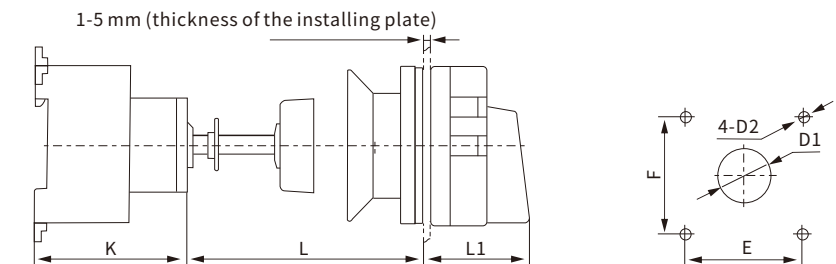
Dimension(mm)

Panel installation



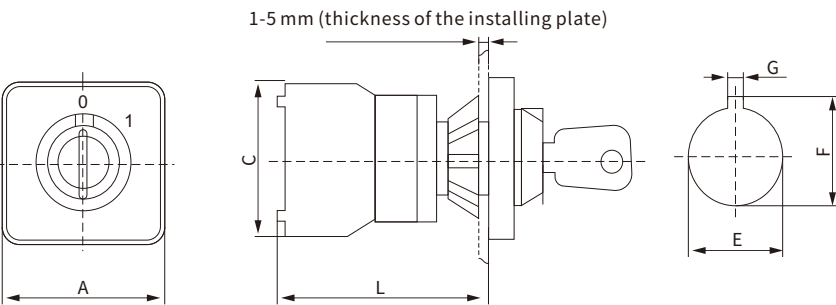
Model	Dimensions					Installation			
	A	B	C	K	L	E	F	D1	D2
EKIS30-25/32	64	43	54	13.5	61	48	48	Ø10	Ø4.5
EKIS30-40/63	64	50	64	16	67	48	48	Ø10	Ø4.5
EKIS30-80/100	64	70	80	22	82	48	48	Ø10	Ø4.5

Installation of doorlock safety switch



Model	Dimensions			Installation			
	K	L1	L	E	F	D1	D2
EKIS30-20	50	32	150	48	48	Ø22	Ø4.5
EKIS30-25	50	32	150	48	48	Ø22	Ø4.5
EKIS30-32	50	32	150	48	48	Ø22	Ø4.5
EKIS30-40	61	32	150	48	48	Ø22	Ø4.5
EKIS30-63	61	32	150	48	48	Ø22	Ø4.5
EKIS30-80	68	32	150	48	48	Ø22	Ø4.5
EKIS30-100	68	32	150	48	48	Ø22	Ø4.5

Single hole installation



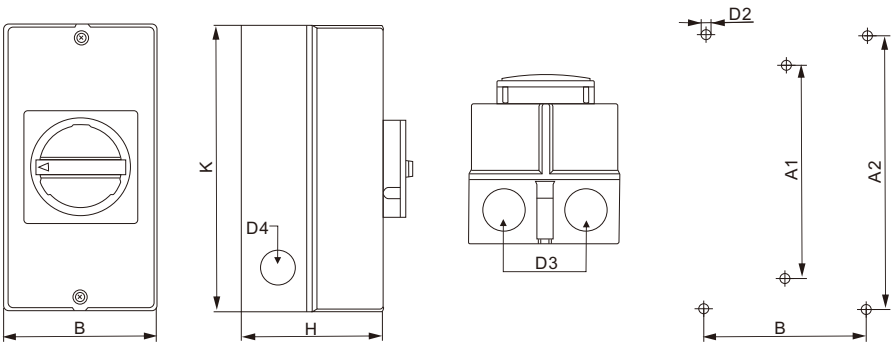
Model	Dimensions			Installation		
	A	C	L	E	F	G
EKIS30-20/25	49	54	73	Ø22.5	24.1	3.2
EKIS30-32	49	54	73	Ø22.5	24.1	3.2
EKIS30-20/25	62	54	73	Ø22.5	24.1	3.2
EKIS30-32	62	54	73	Ø22.5	24.1	3.2



Type Designation

EK	IS30	-	/	/	/	
↓	↓	↓	↓	↓	↓	↓
①	②	③	④	⑤	⑥	
Code	Meaning					
①	Company code					
②	Isolation switch waterproof box					
③	Rated current					
④	Number of poles					
⑤	Waterproof box type and size					
⑥	Switch handle: GSB					

Dimension(mm)



Model	Dimensions					Installation			
	D3	D4	H	B	K	A1	A2	B	D2
EKIS30-20/25/32	Ø23	Ø19	82	85	160	150	-	-	Ø4.2
EKIS30-40/63	Ø29	Ø23	93	100	190	178	-	-	Ø4.2
EKIS30-80/100/125	Ø37.5	Ø23	107	145	250	-	229	124	Ø6.5



EKISP0-20/3/L0/GSC



EKISP1-25/3/L1/GSC



EKISP3-63/3/L3/GSC



EKISP5-100/3/L5/GSC

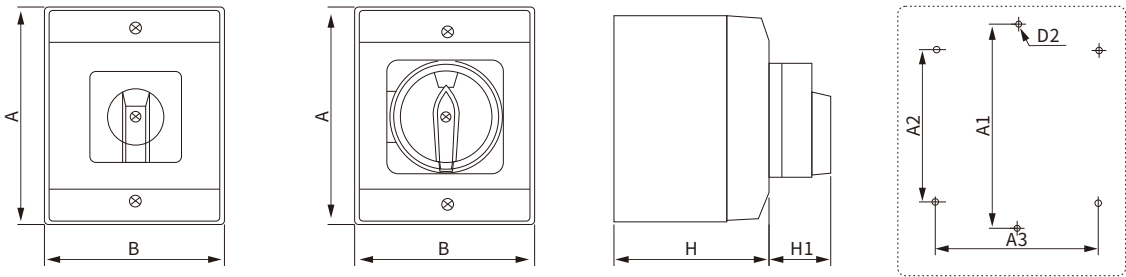
Type Designation



Code	Meaning
①	Company code
②	Isolation switch waterproof box
③	Rated current

Code	Meaning
④	Number of poles
⑤	Waterproof box type and size
⑥	Switch handle: GSC

Dimension(mm)



Model	Dimensions				Installation			
	A	B	H	H1	D2	A1	A2	A3
EKISP-16/20	100	80	65	35	Ø4.5	92	60	60
EKISP-25/32	125	100	85	35	Ø4.5	115	80	80
EKISP-40/63	175	115	100	35	Ø4.5	165	90	90
EKISP-80/100/125	240	160	85	35	Ø4.5	-	193	142



Overview

EKDB80 Series AC Isolator Switches engineered for solar power safety applications. With insulation voltage (U_i) up to 800 V and current options from 16 A to 125 A, these isolators provide safe, visible disconnection for residential, commercial, and industrial PV systems as well as general AC circuits.

To accommodate diverse installation needs, the series offers DIN-rail (DB), panel (PM), and door-interlock (DC) mounting, with 3 pole and 4pole configurations in compact footprints. A comprehensive accessory set supports flexible integration and tailored isolation solutions.

Compliant with IEC 60947-3 switch-disconnector requirements.

• Safety & Reliability

1. True isolation with clear visual indication
2. Padlockable handle to prevent misoperation

• Robust Construction

1. Flame-retardant, high-strength PC housing
2. High-conductivity nickel-phosphorus copper contacts
3. Compression contact mechanism for low resistance and durability

• Versatile Mounting

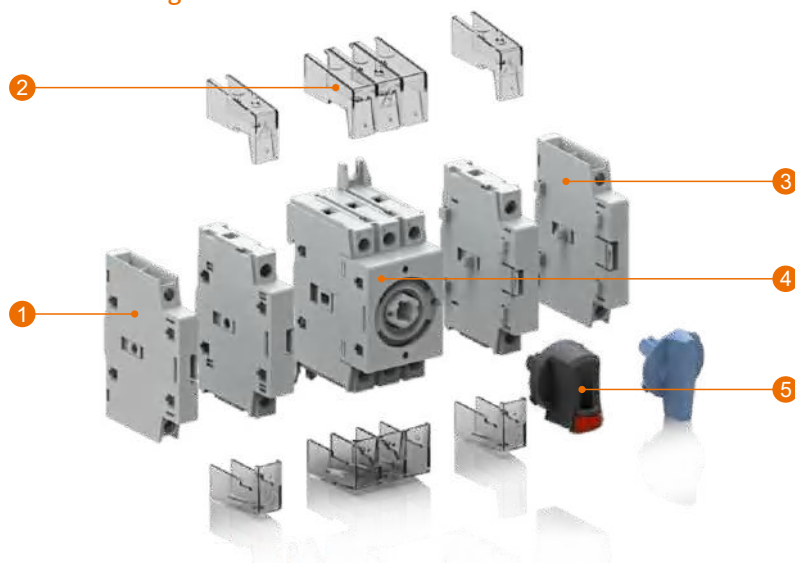
1. DIN-rail, panel, and door-interlock configurations
2. Multiple handle styles; rod extensions available
3. Available with plastic or metal enclosures

• Flexible Configuration

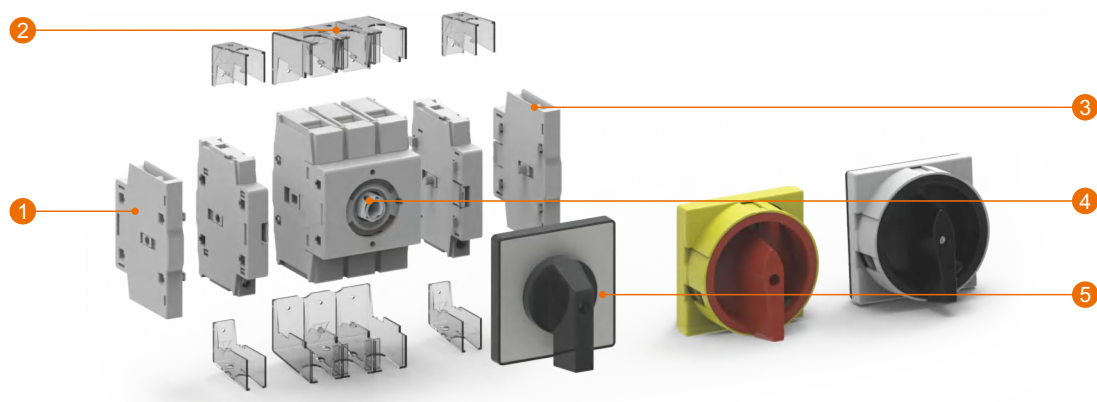
1. Modular add-ons: 4th pole, auxiliary contacts
2. Side-mount options for Neutral (N) and PE
3. Auxiliary combinations: 1NO+1NC, 2NO, etc.

Product Tips

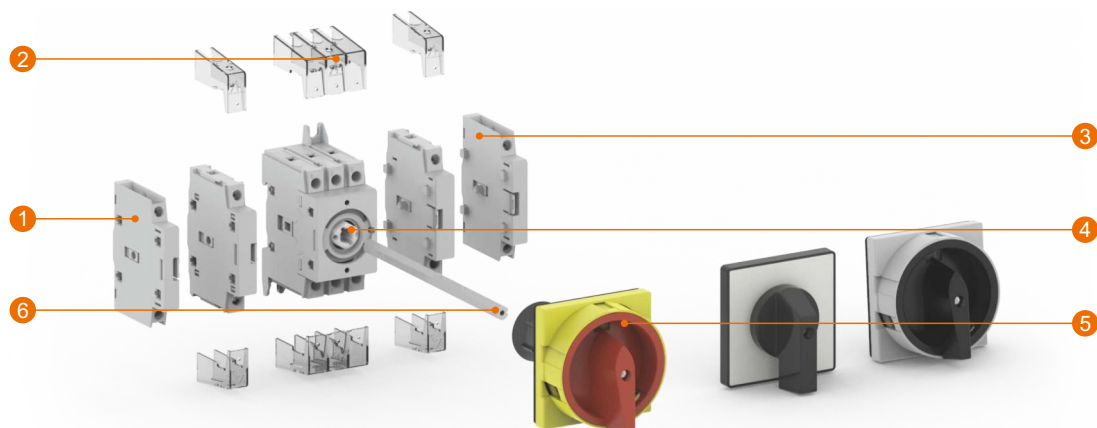
EKD80-DB AC Isolator Din-Rail Mounting



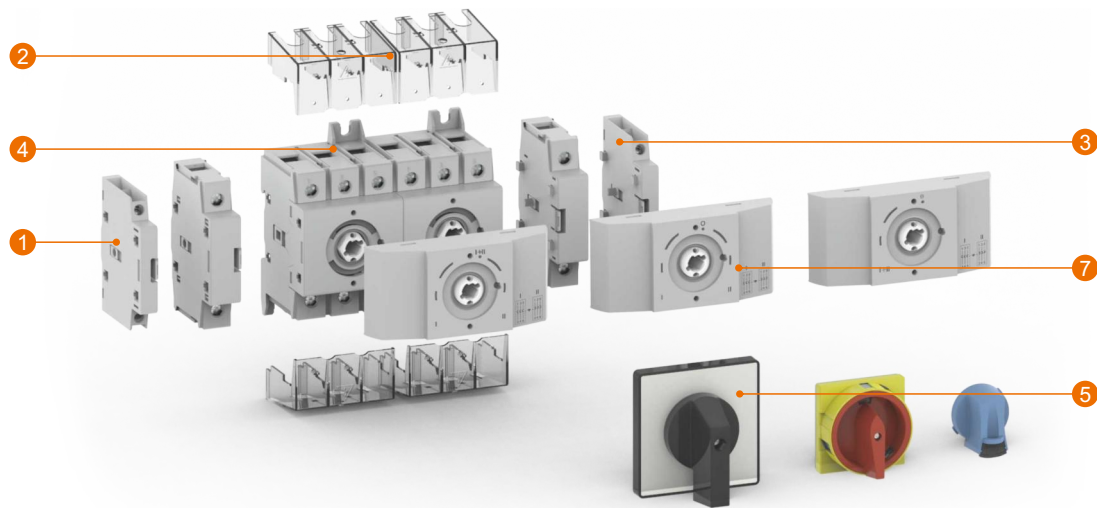
EKD80-PM AC Isolator Panel Mounting



EAS80-DC AC Isolator Door Interlock



Mechanical Combination System



Mounting and removal of the fourth pole and auxiliary contact are quick and simple tool-free

1 Add-on auxiliary contacts

The isolating switch adopts the same auxiliary contact and the auxiliary contact and the main pole of the switch act at the same time. A normally open contact with pre-disconnect function can be provided as required.

The isolation switch can be installed with up to four auxiliary accessories (2 on the right, 2 on the left)

2 Terminal shrouds

The isolation switch terminal shroud has a simple appearance design, high-quality transparent PC material, flame-retardant high strength, no color change after long-term use, high-quality waterproof and easy to install.

3 Side mount add-on fourth pole

Simultaneous or early contact operation of the fourth pole with respect to the switch disconnecter poles.

4 Switch body

ETEK switch adopts compression contact opening and closing technology, and has the function of complete disconnection indication. It is an isolator, a breaker or a switch, and with interlock mechanism, it can be to an exchange switch.

5 Rotating handle parts

Rotating handle, with anti-misoperation padlock design to prevent misoperation, safe and reliable; using high-quality flame-retardant materials, insulation and impact resistance; elegant and stylish design, beautiful and durable.

6 Rod extension

High-carbon steel material, beautiful and corrosion-resistant; coupled with high-temperature treatment, even if sufficient pressure is applied, it can maintain good smoothness; the products are standardized, easy to assemble, low cost. corrosion resistant, and cost-effective.

7 Mechanical interlocking mechanism

The interior is made of high-conductivity nickel-phosphorus copper, which has good conductivity and longer service life. The shell is made of high-strength flame retardant PC material, which is fire-resistant and flame-retardant, in one step!

Quick Selection Table

Switch-disconnectors

EKD80	-	PM	80	R	-	3	RY	-	IM2
↓		↓	↓	↓		↓	↓		↓
①		②	③	④		⑤	⑥		⑦
Code name	Meaning				Code name	Meaning			
①	Type of switch disconnectors				④	Knob lock: Nil: Without lock R: With lock			
②	Installation form: DB: Rail mounting PM: Panel mounting DC: Door interlocked EL: Plastic enclosure box ELA: Aluminum enclosure box ELL: Iron enclosure box				⑤	Poles: 2: 2P; 3: 3P; 4: 4P; 3: 6P ^① ; 4: 8P ^①			
③	Rated current (A): 16:16A; 20:20A; 25:25A; 32:32A; 40:40A; 63:63A; 80:80A; 80H:100A; 100:100A; 125:125A				⑥	Knob color: Nil: Blue knob G: Gray knob RY: Rotating red/yellow handle With lock BW: Black/white rotating handle Optional with lock BB: Rotating black/black handle without lock			
					⑦	Inter lock mechanism: IM2: sync; IM31: normal close; IM32: normal open			

① For interlock mechanism

Side mount add-on poles

EKD80

-

PS

R

16

↓

①

↓

②

↓

③

↓

④

Code name	Meaning
①	Type of switch disconnectors
②	Add on pole code: PS: Sync disconnected PD: Early-making PN: N terminal PE: Protecting earthing

Code name	Meaning
③	Mounting type: Nil: DB /DC /EL, front installation form R: PM, reverse installation form
④	Rated current (A): 16:16A; 20:20A; 25:25A; 32:32A; 40:40A; 63:63A; 80:80A; 80H:100A; 100:100A; 125:125A

Add-on auxiliary contacts

EKD80

-

P1

R

↓

①

↓

②

↓

③

Code name	Meaning
①	Type of switch disconnectors
②	Auxiliary contacts Code: P1: 1NO+1NC P2: 2NO

Code name

Meaning

③

Mounting type:
Nil: DB /DC /EL, front installation form
R: PM, reverse installation form

EKD80-DB AC Isolator Din-Rail Mounting

		35.5mm			52.5mm		69.1mm
							
Type	3P	EKD80-DB16R-3	EKD80-DB20R-3	EKD80-DB25R-3	EKD80-DB63R-3	EKD80-DB80R-3	EKD80-DB100R-3
		EKD80-DB32R-3	EKD80-DB40R-3		EKD80-DB80HR-3		EKD80-DB125R-3
	4P	EKD80-DB16R-4	EKD80-DB20R-4	EKD80-DB25R-4	EKD80-DB63R-4	EKD80-DB80R-4	EKD80-DB100R-4
		EKD80-DB32R-4	EKD80-DB40R-4		EKD80-DB80HR-4		EKD80-DB125R-4
							
Type	3P	EKD80-DB16-3	EKD80-DB20-3	EKD80-DB25-3	EKD80-DB63-3	EKD80-DB80-3	EKD80-DB100-3
		EKD80-DB32-3	EKD80-DB40-3		EKD80-DB80H-3		EKD80-DB125-3
	4P	EKD80-DB16-4	EKD80-DB20-4	EKD80-DB25-4	EKD80-DB63-4	EKD80-DB80-4	EKD80-DB100-4
		EKD80-DB32-4	EKD80-DB40-4		EKD80-DB80H-4		EKD80-DB125-4

EKD80-PM AC Isolator Panel Mounting

		35.5mm			52.5mm		69.1mm
							
Type	3P	EKD80-PM16R-3RY	EKD80-PM20R-3RY	EKD80-PM25R-3RY	EKD80-PM63R-3RY	EKD80-PM80R-3RY	EKD80-PM100R-3RY
		EKD80-PM32R-3RY	EKD80-PM40R-3RY		EKD80-PM80HR-3RY		EKD80-PM125R-3RY
	4P	EKD80-PM16R-4RY	EKD80-PM20R-4RY	EKD80-PM25R-4RY	EKD80-PM63R-4RY	EKD80-PM80R-4RY	EKD80-PM100R-4RY
		EKD80-PM32R-4RY	EKD80-PM40R-4RY		EKD80-PM80HR-4RY		EKD80-PM125R-4RY

EKD80 16A~125A

ETEK®

AC Isolator Switch

Standard_IEC60947-3

		35.5mm			52.5mm		69.1mm
							
Type	3P	EKD80-PM16R-3BW	EKD80-PM20R-3BW	EKD80-PM25R-3BW	EKD80-PM63R-3BW	EKD80-PM80R-3BW	EKD80-PM100R-3BW
		EKD80-PM32R-3BW	EKD80-PM40R-3BW		EKD80-PM80HR-3BW		EKD80-PM125R-3BW
	4P	EKD80-PM16R-4BW	EKD80-PM20R-4BW	EKD80-PM25R-4BW	EKD80-PM63R-4BW	EKD80-PM80R-4BW	EKD80-PM100R-4BW
		EKD80-PM32R-4BW	EKD80-PM40R-4BW		EKD80-PM80HR-4BW		EKD80-PM125R-4BW
							
Type	3P	EKD80-PM16-3BB	EKD80-PM20-3BB	EKD80-PM25-3BB	EKD80-PM63-3BB	EKD80-PM80-3BB	EKD80-PM100-3BB
		EKD80-PM32-3BB	EKD80-PM40-3BB		EKD80-PM80H-3BB		EKD80-PM125-3BB
	4P	EKD80-PM16-4BB	EKD80-PM20-4BB	EKD80-PM25-4BB	EKD80-PM63-4BB	EKD80-PM80-4BB	EKD80-PM100-4BB
		EKD80-PM32-4BB	EKD80-PM40-4BB		EKD80-PM80H-4BB		EKD80-PM125-4BB

EKD80-DC AC Isolator Door Interlock

		35.5mm			52.5mm		69.1mm
							
Type	3P	EKD80-DC16-3BB	EKD80-DC20-3BB	EKD80-DC25-3BB	EKD80-DC63-3BB	EKD80-DC80-3BB	EKD80-DC100-3BB
		EKD80-DC32-3BB	EKD80-DC40-3BB		EKD80-DC80H-3BB		EKD80-DC125-3BB
	4P	EKD80-DC16-4BB	EKD80-DC20-4BB	EKD80-DC25-4BB	EKD80-DC63-4BB	EKD80-DC80-4BB	EKD80-DC100-4BB
		EKD80-DC32-4BB	EKD80-DC40-4BB		EKD80-DC80H-4BB		EKD80-DC125-4BB

EKD80 16A~125A



AC Isolator Switch ----- Standard_IEC60947-3

		35.5mm			52.5mm		69.1mm
							
Type	3P	EKD80-DC16R-3RY	EKD80-DC20R-3RY	EKD80-DC25R-3RY	EKD80-DC63R-3RY	EKD80-DC80R-3RY	EKD80-DC100R-3RY
		EKD80-DC32R-3RY	EKD80-DC40R-3RY		EKD80-DC80HR-3RY		EKD80-DC125R-3RY
	4P	EKD80-DC16R-4RY	EKD80-DC20R-4RY	EKD80-DC25R-4RY	EKD80-DC63R-4RY	EKD80-DC80R-4RY	EKD80-DC100R-4RY
		EKD80-DC32R-4RY	EKD80-DC40R-4RY		EKD80-DC80HR-4RY		EKD80-DC125R-4RY
							
Type	3P	EKD80-DC16R-3BW	EKD80-DC20R-3BW	EKD80-DC25R-3BW	EKD80-DC63R-3BW	EKD80-DC80R-3BW	EKD80-DC100R-3BW
		EKD80-DC32R-3BW	EKD80-DC40R-3BW		EKD80-DC80HR-3BW		EKD80-DC125R-3BW
	4P	EKD80-DC16R-4BW	EKD80-DC20R-4BW	EKD80-DC25R-4BW	EKD80-DC63R-4BW	EKD80-DC80R-4BW	EKD80-DC100R-4BW
		EKD80-DC32R-4BW	EKD80-DC40R-4BW		EKD80-DC80HR-4BW		EKD80-DC125R-4BW

Technical Data

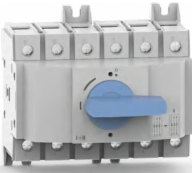
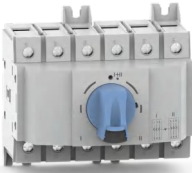
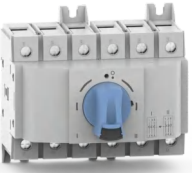
Current (40°C) Agreed heating current		16A	20A	25A	32A	40A	63A	80A	100A	100A	125A
IEC rated operational current (Ie) AC-21 A/B (≤690V)		16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
IEC rated operational current (Ie) AC-22 A/B	415V	16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
	500V					32A/40A	40A/63A	63A/80A	63A/80A	80A/100A	100A/125A
	690V										
IEC rated operational current (Ie) AC-23 A/B	415V	16A/16A	20A/20A	25A/25A	32A/32A	40A/40A	63A/63A	80A/80A	100A/100A	100A/100A	125A/125A
	500V				25A/25A	25A/25A		63A/63A	63A/63A	80A/80A	100A/100A
	690V						40A/40A				
IEC rated operational current (Ie) DC-21 B	110VDC	16A ^①	20A ^①	25A ^①	32A ^①	40A ^①	63A ^①	80A ^①	100A ^①	100A ^①	125A ^①
	250VDC	16A ^②	20A ^②	25A ^②	32A ^②	40A ^②	63A ^②	80A ^②	100A ^②	100A ^②	125A ^②
	400VDC	16A ^③	20A ^③	25A ^③	25A ^③	25A ^③	40A ^③	40A ^③	40A ^③	63A ^③	63A ^③
IEC rated operational power (3 phase) AC-23 A/B	415V	7.5kW	9kW	11kW	15kW	18.5kW	30kW	37kW	45kW	45kW	55kW
	500V										
	690V										
Short circuit withstand current of fuse protection (kA rms expected value)											
Fuse class	415V	16A	20A	25A	32A	40A	63A	80A	100A	100A	125A
Rated conditional short-circuit current	415V	10kA					15kA			20kA	
Short circuit withstand current of circuit breaker for protection, any circuit breaker that can trip within 0.3s											
Rated short-time withstand current	0.3S	2.5kA					3kA			5kA	
Short circuit performance (unprotected)											
Rated short-time withstand current	1S	1.26kA					1.5kA			2.75kA	
Rated short circuit making capacity		1.8kA					2.1kA			3.9kA	
Cable cross section		1.5~10mm²					2.5~35mm²			10~70mm²	
Rated insulation voltage (Ui)		800V									
Rated impulse withstand voltage (Uimp)		8kV									
Mechanical endurance		100000									
Ambient temperature		Operating: -25°C ~ +55°C; Storage: -40°C ~ +70°C									

① Each pole is used as positive and negative.

② Three poles in series , two poles in series for positive , one pole for negative.

③ Four poles in series, two poles in series for positive, other two poles in series for negative.

Mechanical Combination System

		105mm	105mm	105mm
		Mechanical combination system: for 6/8 pole	Mechanical combination system: for 3/4 pole I-I+II-II conversion	Mechanical combination system: for 3/4 pole I-O-II conversion
				
Type	3P	EKD80-DB63-3-IM2	EKD80-DB80-3-IM31	EKD80-DB80-3-IM32
		EKD80-DB63-4-IM2	EKD80-DB80-4-IM31	EKD80-DB80-4-IM32

Mechanical Combination System Technical Data

Current (40°C) Agreed heating current		63A	80A	100A
IEC rated operational current (Ie) AC-21 A/B (≤690V)		63A/63A	80A/80A	100A/100A
IEC rated operational current (Ie) AC-22 A/B	415V	63A/63A	80A/80A	100A/100A
	500V			
	690V	40A/63A	63A/80A	63A/80A
IEC rated operational current (Ie) AC-23 A/B	415V	63A/63A	80A/80A	100A/100A
	500V	63A/63A	63A/63A	63A/63A
	690V	40A/40A	40A/40A	40A/40A
IEC rated operational current (Ie) DC-21 B	110VDC	63A ^①	80A ^①	100A ^①
	250VDC	63A ^②	80A ^②	100A ^②
	400VDC	40A ^③	40A ^③	40A ^③
IEC rated operational power (3 phase) AC-23 A/B	415V	30kW	37kW	45kW
	500V			
	690V			
Short circuit withstand current of fuse protection (kA rms expected value)				
Fuse class	415V	63A	80A	100A
Rated conditional short-circuit current	415V	15kA		
Short circuit withstand current of circuit breaker for protection, any circuit breaker that can trip within 0.3s				
Rated short-time withstand current	0.3S	3kA		
Short circuit performance (unprotected)				
Rated short-time withstand current	1S	1.5kA		
Rated short circuit making capacity		1.4kA		
Cable cross section		2.5~35mm ²		
Rated insulation voltage (Ui)		800V		
Rated impulse withstand voltage (Uimp)		8kV		
Mechanical endurance		100000		
Ambient temperature		Operating: -25°C ~ +55°C; Storage: -40°C ~ +70°C		

① Each pole is used as positive and negative.

② Three poles in series , two poles in series for positive , one pole for negative.

③ Four poles in series, two poles in series for positive, other two poles in series for negative.

EKD80 16A~125A

ETEK®

AC Isolator Switch

Standard_IEC60947-3

EKD80 AC Isolator Add on

Fourth pole, simultaneous closing operation as switch poles



Type	EKD80-PS40	EKD80-PSR40	EKD80-PS80	EKD80-PSR80	EKD80-PS125	EKD80-PSR125
Ith	40A		80A		125A	
Width	11mm		16mm		21.3mm	
Applied to	EKD80-16~ EKD80-40	EKD80-PM16~ EKD80-PM40	EKD80-63~ EKD80-80	EKD80-PM63~ EKD80-PM80	EKD80-100~ EKD80-125	EKD80-PM100~ EKD80-PM125
Function						

Fourth pole, early-make closing operation with respect to switch poles



Type	EKD80-PD40	EKD80-PDR40	EKD80-PD80	EKD80-PDR80	EKD80-PD125	EKD80-PDR125
Ith	40A		80A		125A	
Width	11mm		16mm		21.3mm	
Applied to	EKD80-16~ EKD80-40	EKD80-PM16~ EKD80-PM40	EKD80-63~ EKD80-80	EKD80-PM63~ EKD80-PM80	EKD80-100~ EKD80-125	EKD80-PM100~ EKD80-PM125
Function						

EKD80 16A~125A



AC Isolator Switch ----- Standard_IEC60947-3

Neutral plate terminal



Type	EKD80-PN40	EKD80-PNR40	EKD80-PN80	EKD80-PNR80	EKD80-PN125	EKD80-PNR125
Ith	40A		80A		125A	
Width	11mm		16mm		21.3mm	
Applied to	EKD80-16~ EKD80-40	EKD80-PM16~ EKD80-PM40	EKD80-63~ EKD80-80	EKD80-PM63~ EKD80-PM80	EKD80-100~ EKD80-125	EKD80-PM100~ EKD80-PM125
Function						

Earth/Ground Plate terminal



Type	EKD80-PE40	EKD80-PER40	EKD80-PE80	EKD80-PER80	EKD80-PE125	EKD80-PER125
Ith	40A		80A		125A	
Width	11mm		16mm		21.3mm	
Applied to	EKD80-16~ EKD80-40	EKD80-PM16~ EKD80-PM40	EKD80-63~ EKD80-80	EKD80-PM63~ EKD80-PM80	EKD80-100~ EKD80-125	EKD80-PM100~ EKD80-PM125
Function						

EKD80 16A~125A

ETEK®

AC Isolator Switch

Standard_IEC60947-3

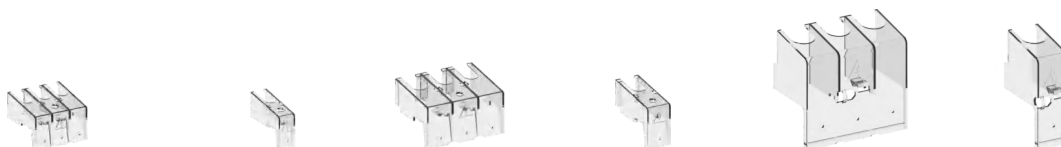
Add-on auxiliary contacts

One only add-on block suitable for all the EKD80 switch disconnectors, having simultaneous operation with the switch poles.



Type	EKD80-P1	EKD80-P2	EKD80-P3	EKD80-P1R	EKD80-P2R
Contacts	1NO+1NC	2NO	1NO	1NO+1NC	2NO
Width	9mm			9mm	
Parameter	AC-13: 10A, 230V~; AC-15: 6A, 230V~			AC-13: 10A, 230V~; AC-15: 6A, 230V~	
Function					
Description	For DB , DC , EL ,ELA				For PM

Terminal shroud



Type	EKD80-TS40-3	EKD80-TS40-1	EKD80-TS80-3	EKD80-TS80-1	EKD80-TS125-3	EKD80-TS125-1
Poles	3P	1P	3P	1P	3P	1P
Applied to	For the main body switch of 16A to 40A	For the fourth pole of 16A to 40A	For the main body switch of 63A to 80A	For the fourth pole of 63A to 80A	For the main body switch of 100A to 125A	For the fourth pole of 100A to 125A

Rod extension



Type	EKD80-SF150	EKD80-SF200	EKD80-SF320
Applied to	150mm	200mm	320mm
Description	Lenght customizec		

EKD80 16A~125A

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AC Isolator Switch

Standard_IEC60947-3

Mechanical combination system



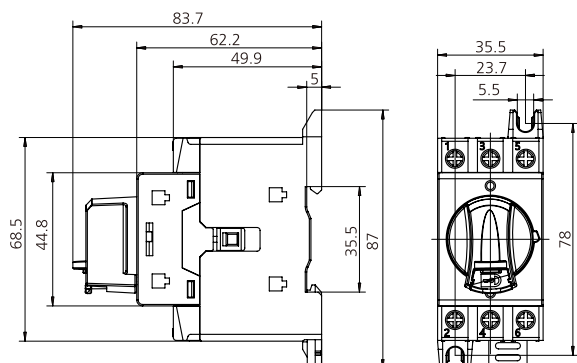
Type	EKD80-80-IM2	EKD80-80-IM31	EKD80-80-IM32
Applied to	For the main body switch of 63A to 80A		
Description	Mechanical combination system: for 6/8 pole	Mechanical combination system: for 3/4 pole I-I+II-II conversion	Mechanical combination system: for 3/4 pole I-O-II conversion

Rotating handle parts



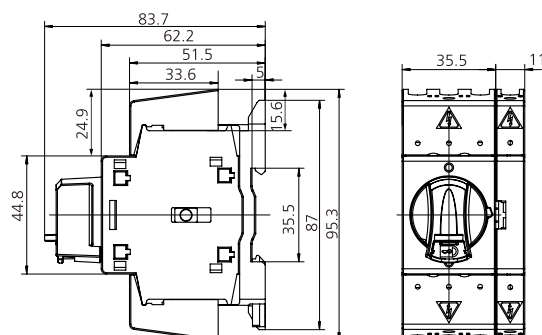
Type	80-PM-BB	80-PMR-BY	80-PMR-BW	80-DC-BB	80-DCR-BY	80-DCR-BW	80-RBR	80-DBR	80-DB
Fixing method	Screw			Nut/Screw			Clasp		
Size	64mm			64mm					
Description	For PM panel mounting			For DC door interlocked mounting			For DB rail mounting		
	Panel mounting			Door interlocked mounting			Rail mounting		

Dimension (mm)



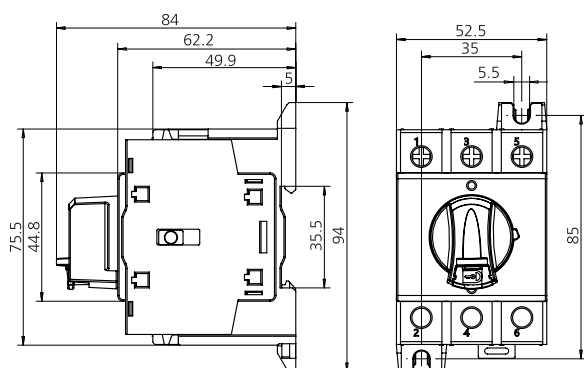
EKD80-DB16R-3
EKD80-DB25R-3

EKD80-DB32R-3
EKD80-DB40R-3

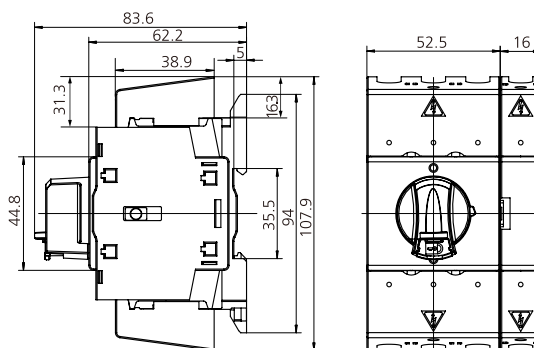


EKD80-DB16R-4
EKD80-DB25R-4

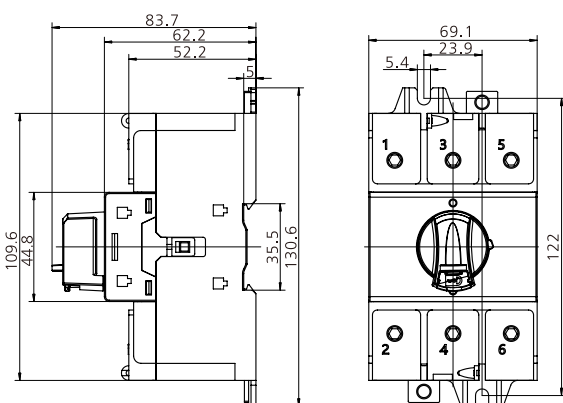
EKD80-DB32R-4
EKD80-DB40R-4



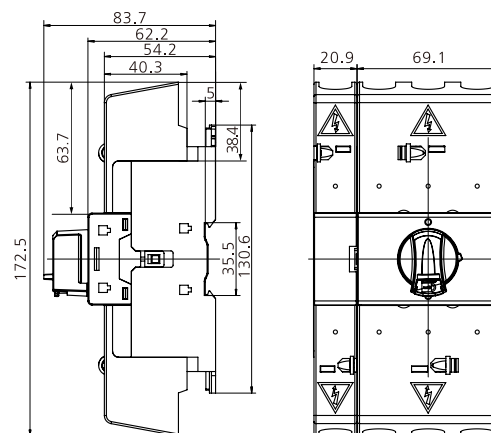
EKD80-DB63R-3
EKD80-DB80R-3



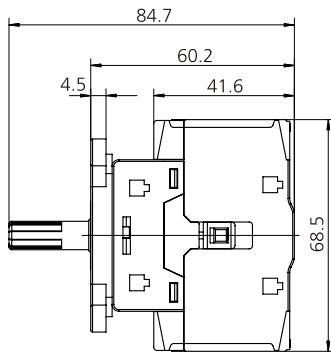
EKD80-DB63R-4
EKD80-DB80R-4



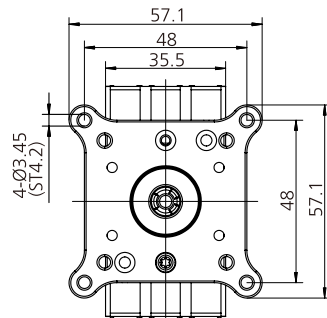
EKD80-DB100R-3
EKD80-DB125R-3



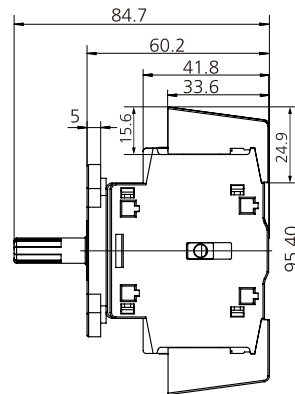
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EKD80-DB125R-4



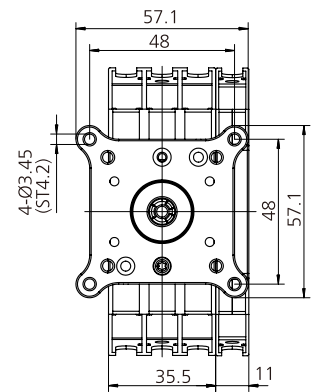
EKD80-PM16R-3
EKD80-PM25R-3



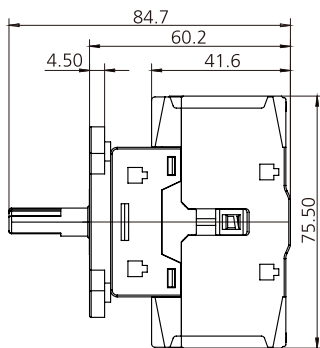
EKD80-PM32R-3
EKD80-PM40R-3



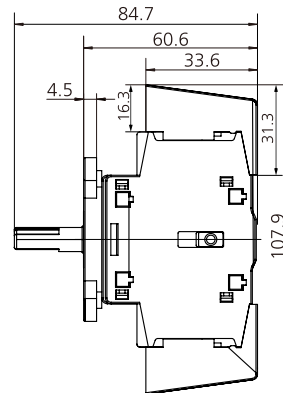
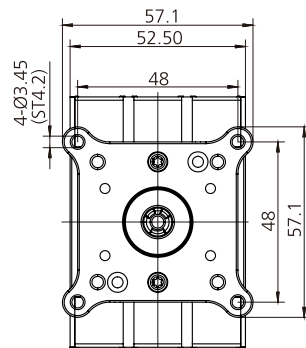
EKD80-PM16R-4
EKD80-PM25R-4



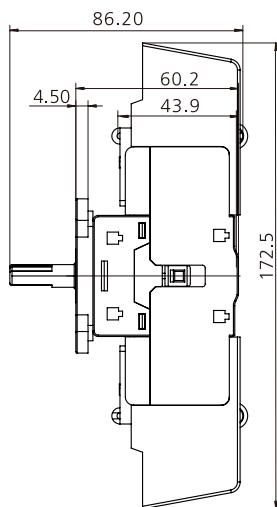
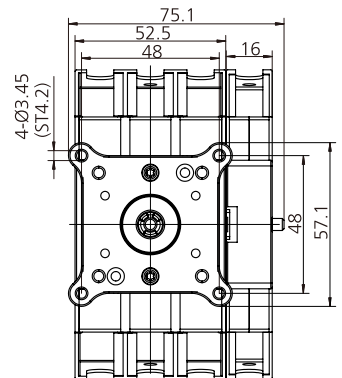
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EKD80-PM40R-4



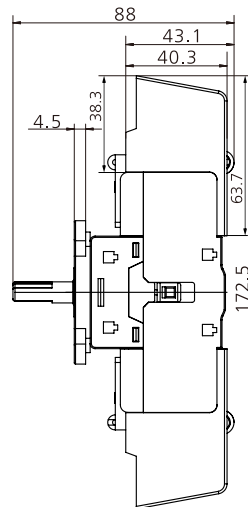
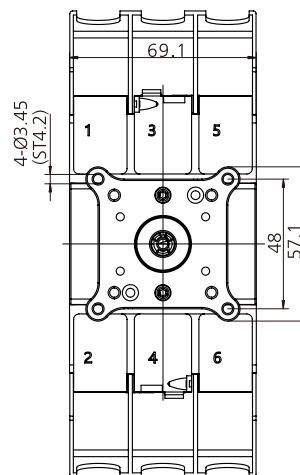
EKD80-PM63R-3
EKD80-PM80R-3



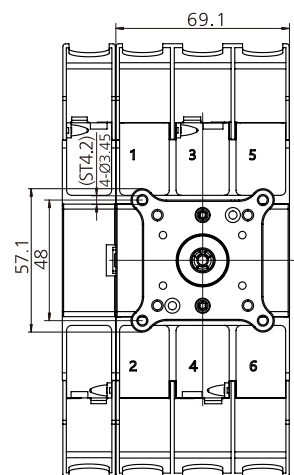
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EKD80-PM80R-4

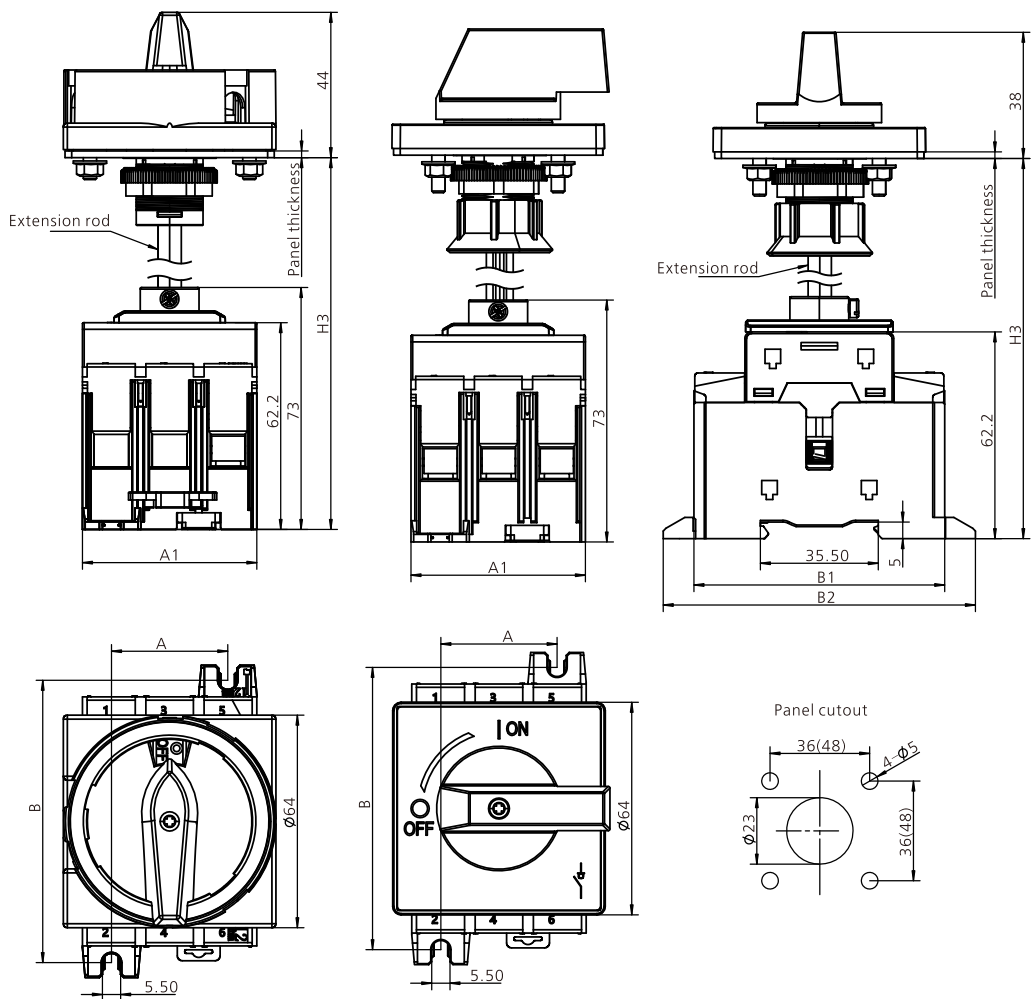


EKD80-PM100R-3
EKD80-PM125R-3



EKD80-PM100R-4
EKD80-PM125R-4





Frame	A	A1	B	B1	B2	H3
EKD80-DB40	23.7	35.5	78	68.5	87	Customized
EKD80-DB80	35	52.5	85	75.5	94	Customized
EKD80-DB125	23.9	69.1	122	109	130.6	Customized

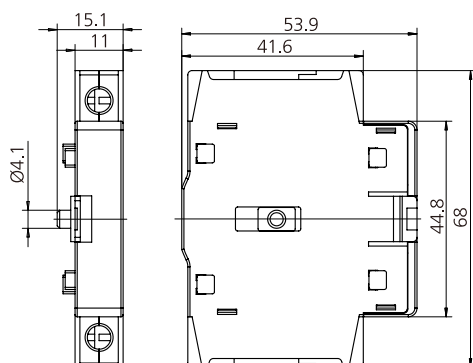
EKD80 16A~125A

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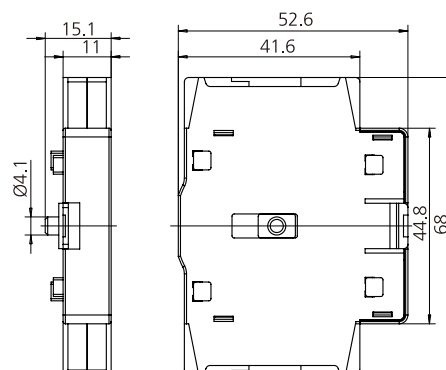
AC Isolator Switch

Standard_IEC60947-3

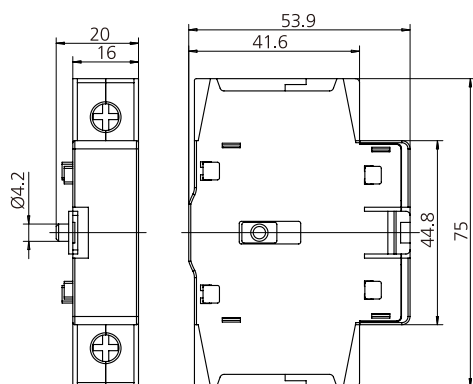
Add on pole



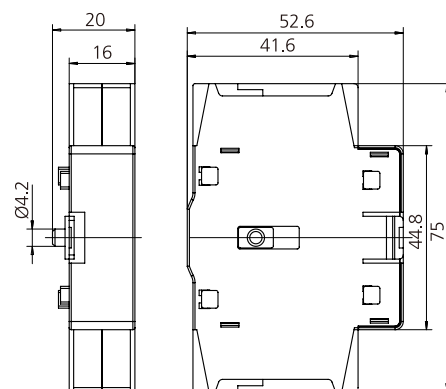
EKD80-PS40 EKD80-PN40
EKD80-PD40 EKD80-PE40



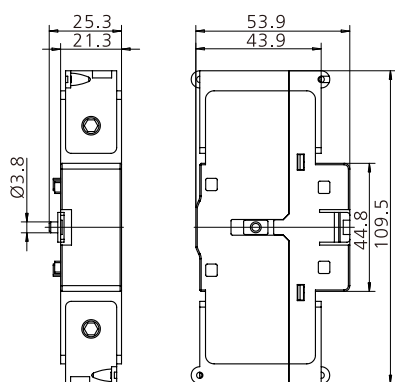
EKD80-PS40R EKD80-PN40R
EKD80-PD40R EKD80-PE40R



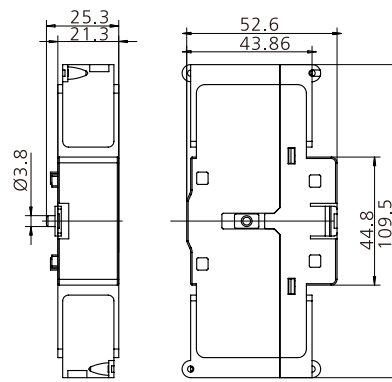
EKD80-PS80 EKD80-PN80
EKD80-PD80 EKD80-PE80



EKD80-PS80R EKD80-PN80R
EKD80-PD80R EKD80-PE80R



EKD80-PS125 EKD80-PN125
EKD80-PD125 EKD80-PE125



EKD80-PSR125 EKD80-PNR125
EKD80-PDR125 EKD80-PER125

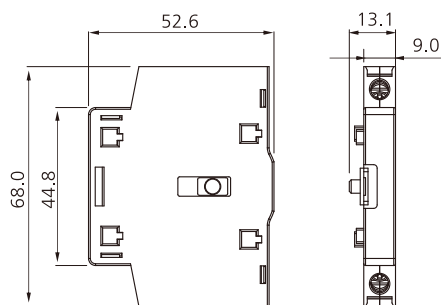
EKD80 16A~125A

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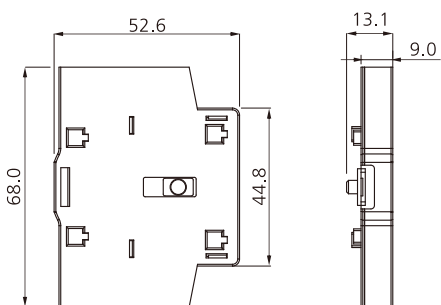
AC Isolator Switch

Standard_IEC60947-3

Auxiliary contact

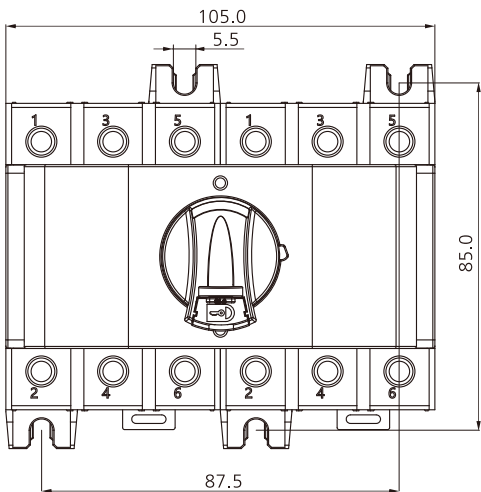
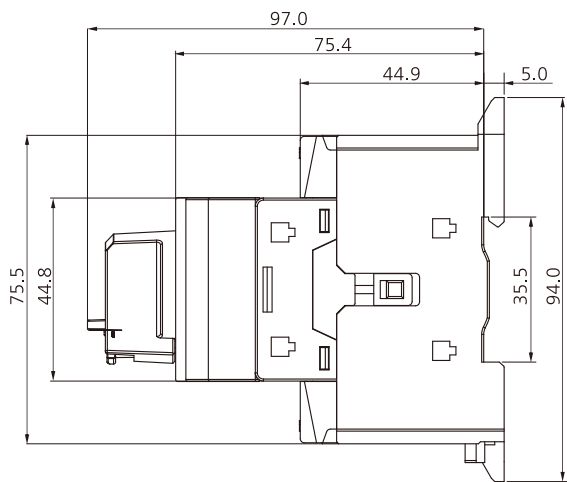


EKD80-P1
EKD80-P2



EKD80-P1R
EKD80-P2R

Mechanical combination system



EKD80 16A~125A



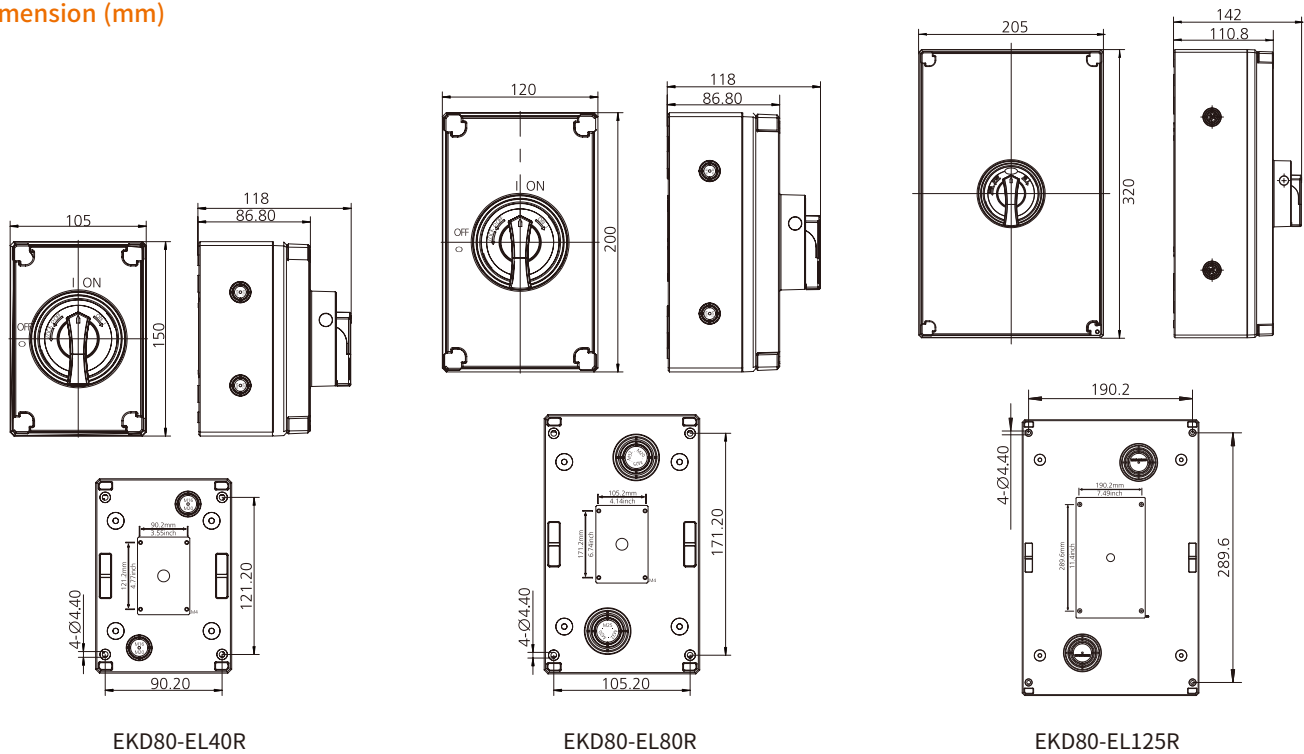
AC Isolator Switch ----- Standard_IEC60947-3

EAS80-EL AC Isolator Enclosure Box Plastic



Type	EKD80-EL40R				EKD80-EL80R			EKD80-80-EL125R	
lthe conventional enclosed thermal current	16A	25A	32A	40A	63A	80A	100A	100A	125A
Components enclosure	EKD80-DC16	EKD80-DC25	EKD80-DC32	EKD80-DC40	EKD80-DC63	EKD80-DC80	EKD80-DC80H	EKD80-DC100	EKD80-DC125

Dimension (mm)



EKD80 16A~125A

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AC Isolator Switch

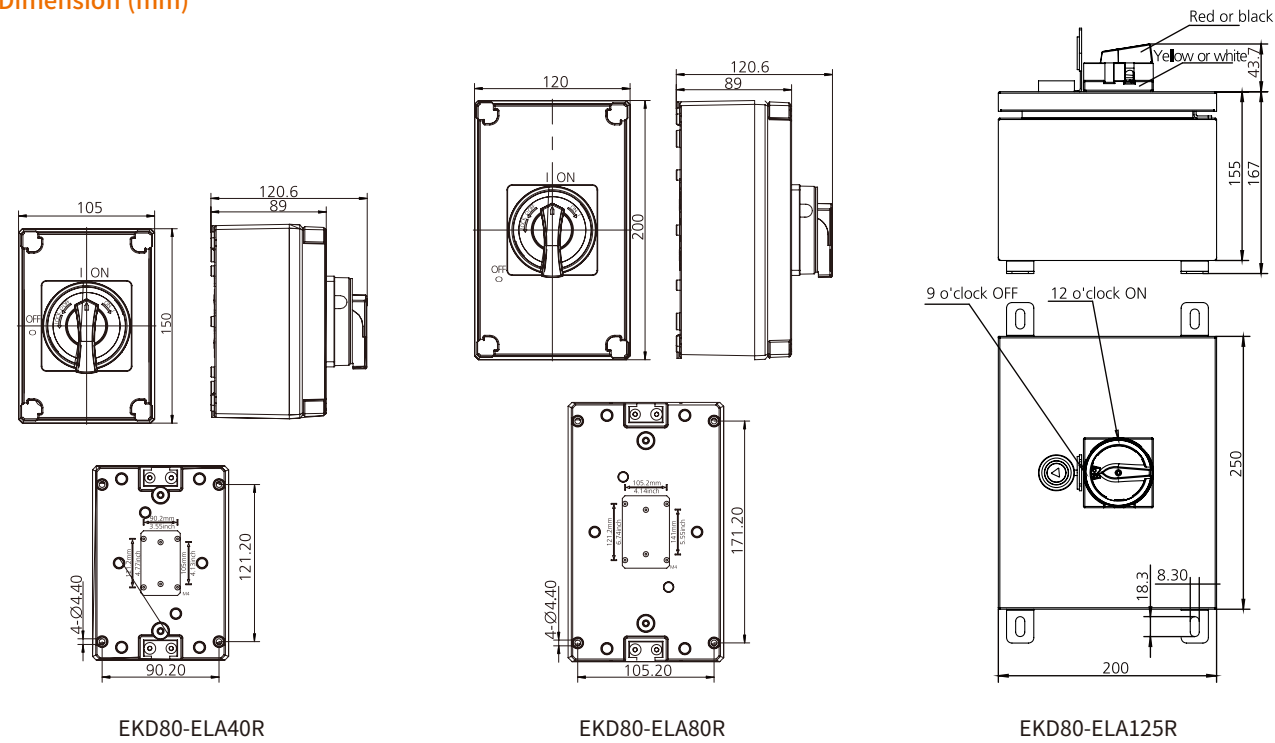
Standard_IEC60947-3

EAS80-ELA AC Isolator Enclosure Box Metal



Type	EKD80-ELA40R				EKD80-ELA80R			EKD80-80-ELA125R	
IEC conventional free air thermal current Ith AC21 A (≤690V)	16A	25A	32A	40A	63A	80A	100A	100A	125A
Components enclosure	EKD80-DC16	EKD80-DC25	EKD80-DC32	EKD80-DC40	EKD80-DC63	EKD80-DC80	EKD80-DC80H	EKD80-DC100	EKD80-DC125

Dimension (mm)



 The product data referred to in the company shall be subject to material object. Subject to change without notice.
The company has the final right to interpret.

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