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INDUSTRIAL CONTROL
ELECTRIC

» *Always for your safety*



ZHEJIANG ETEK
ELECTRICAL TECHNOLOGY CO.,LTD.

Always for your safety



RoHS

COMPANY INTRODUCTION

Zhejiang ETEK Electric Technology Co., Ltd. (Abbreviation: ETEK Electric) is a professional manufacturing company dedicated to the research, development, production and sales of low-voltage electrical appliances. The company was established in 2011 and is located in Wenzhou City, Zhejiang Province. At present, the company has a modern factory building of more than 12,000 mm². ETEK Electric focuses on the low-voltage electrical fieldwide and has advanced production management systems and production processes. Its products cover electrical safety products for household, commercial, industrial and similar facilities, such as Miniature circuit breakers (MCB), Residual current devices (RCD), Isolating switches, Molded case circuit breakers (MCCB), Distribution board, AC contactors, Surge protectors (SPD), IoT smart circuit breakers and Electric vehicle charging facilities (EV Charger), etc.

Relying on hard work and innovation, ETEK Electric's products quickly stand out in the fiercely competitive electrical market. With its own brand 'ETEK', 'ETEC' it has successfully entered the international market and signed overseas brand agency contracts with customers from many countries and regions. Its products are exported to the Europe, Middle East, Africa, South Asia and other more than 60 countries and regions.

ETEK Electric always insists on providing customers with safe and reliable electrical products. Won approvals of CE, CB, TUV, UKCA, SEMKO, VDE, SAA and ISO9001 Quality System Certificate and RoHS Environmental Management System Certificate.

ETEK Electric is committed to solving the pressure and challenges of customers and creating value for customers. ETEK Electric has rich industry experience and a dynamic, professional and efficient team, we can provide customers with the best OEM, ODM services.

Growth, Efficiency, Innovation and Quality are ETEK's business goals. We are firmly committed to the field of low voltage electrical products which is your trusted partner.

We hope our products can guarantee the power safety of global users and promote the development of green energy.



Wenzhou Factory

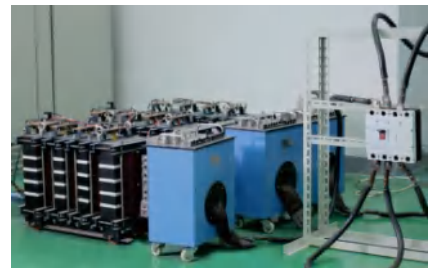


Wuhu Factory

WORKSHOPS



TESTING CENTER



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EKC1-0910



EKC1-2510



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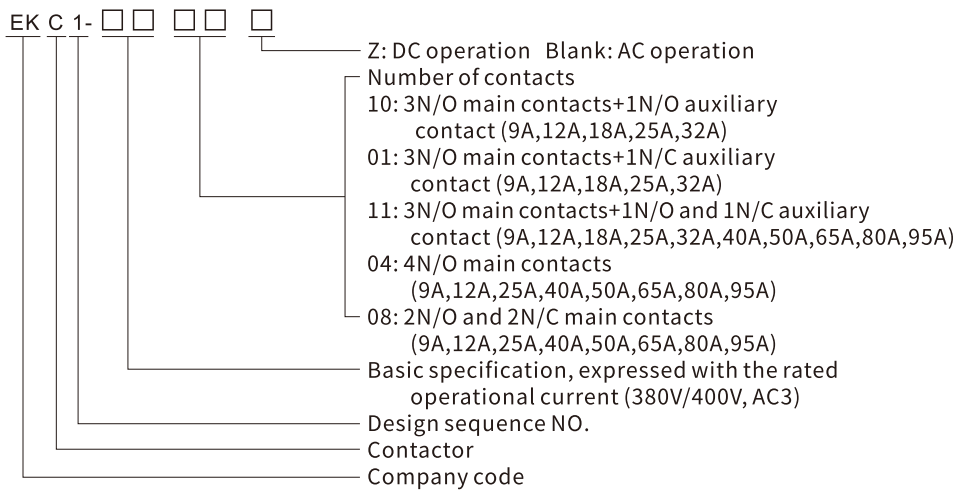
Technical Data

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

AC Coil Operation	Volts(VAC)	24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
	60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-	-
	50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-	-

DC Coil Operation	Volts(VDC)	12	24	36	48	110	220
	Code	JD	BD	CD	ED	FD	MD

Type Designation





EKC1-4011



EKC1-8011

Technical Data

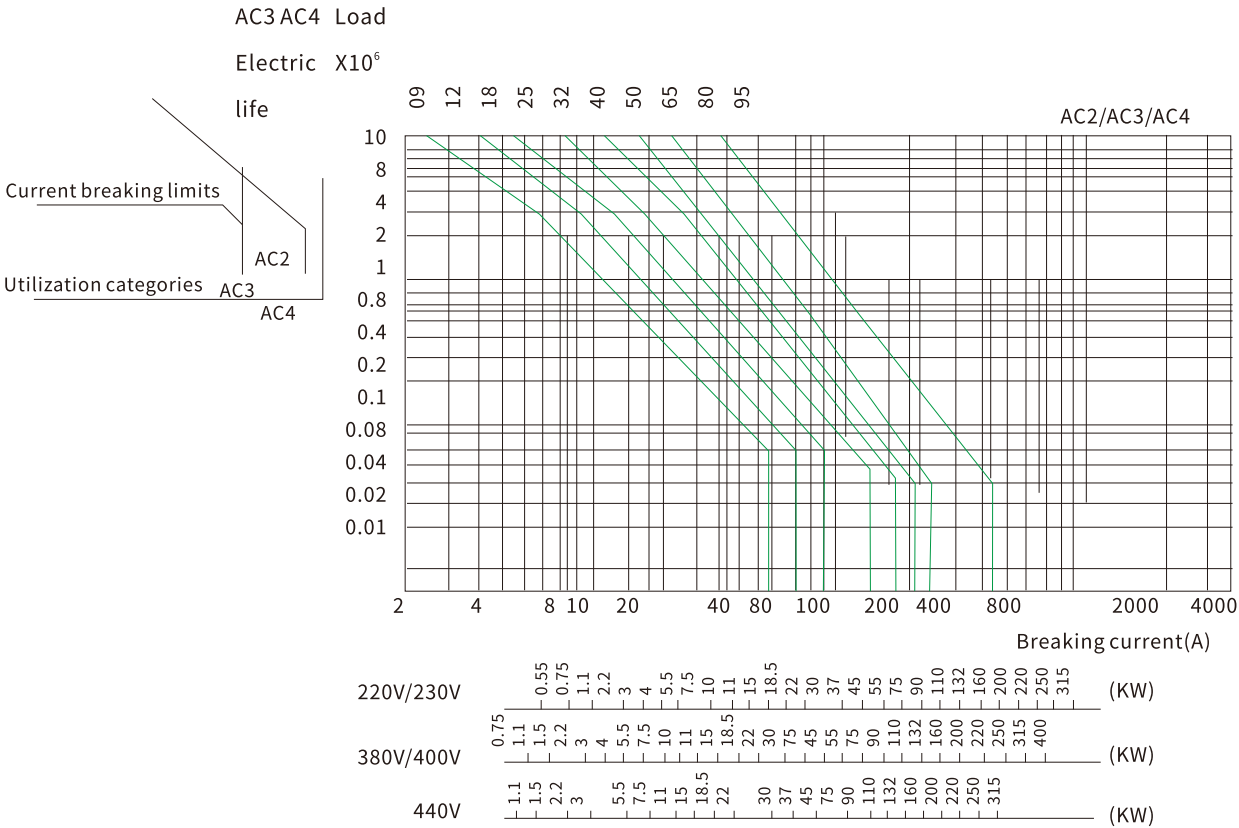
Technical Specification	Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
	Model No.		EKC1-09	EKC1-12	EKC1-18	EKC1-25	EKC1-32
	Rated Conventional Heating Current	Ith(A)	20	20	32	40	50
	Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
	Rated Operation Current	AC-3 Ie(A)	9	12	18	25	32
	Ue=380/415V	AC-4 Ie(A)	3.5	5	7.7	8.5	12
	Power Controlled	220/240V KW	2.2	3	4	5.5	7.5
	3ph cage Motor	380/415V KW	4	5.5	7.5	11	15
	AC-3	660/690V KW	5.5	7.5	10	15	18.5
	Electrial life(x10 ³ operations)	AC-3	1000	1000	1000	1000	800
		AC-4	200	200	200	200	200
	Mechanical life(x10 ⁶ operations)		10	10	10	10	8
	Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
		A	20	20	32	40	50
	Main circuit	3P or 4P					
	Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO / 1NC / 1NO + 1NC					

Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		EKC1-40	EKC1-50	EKC1-65	EKC1-80	EKC1-95
Rated Conventional Heating Current	Ith(A)	60	80	80	100	125
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current	AC-3 Ie(A)	40	50	65	80	95
Ue=380/415V	AC-4 Ie(A)	18.5	24	28	37	44
Power Controlled	220/240V KW	11	15	18.5	22	25
3ph cage Motor	380/415V KW	18.5	22	30	37	45
AC-3	660/690V KW	30	33	37	45	45
Electrial life(x10³ operations)	AC-3	800	600	600	600	600
	AC-4	150	150	150	100	100
Mechanical life(x10⁶ operations)		8	8	8	6	6
Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
	A	63	80	80	100	125
Main circuit	3P or 4P					
Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO + 1NC					

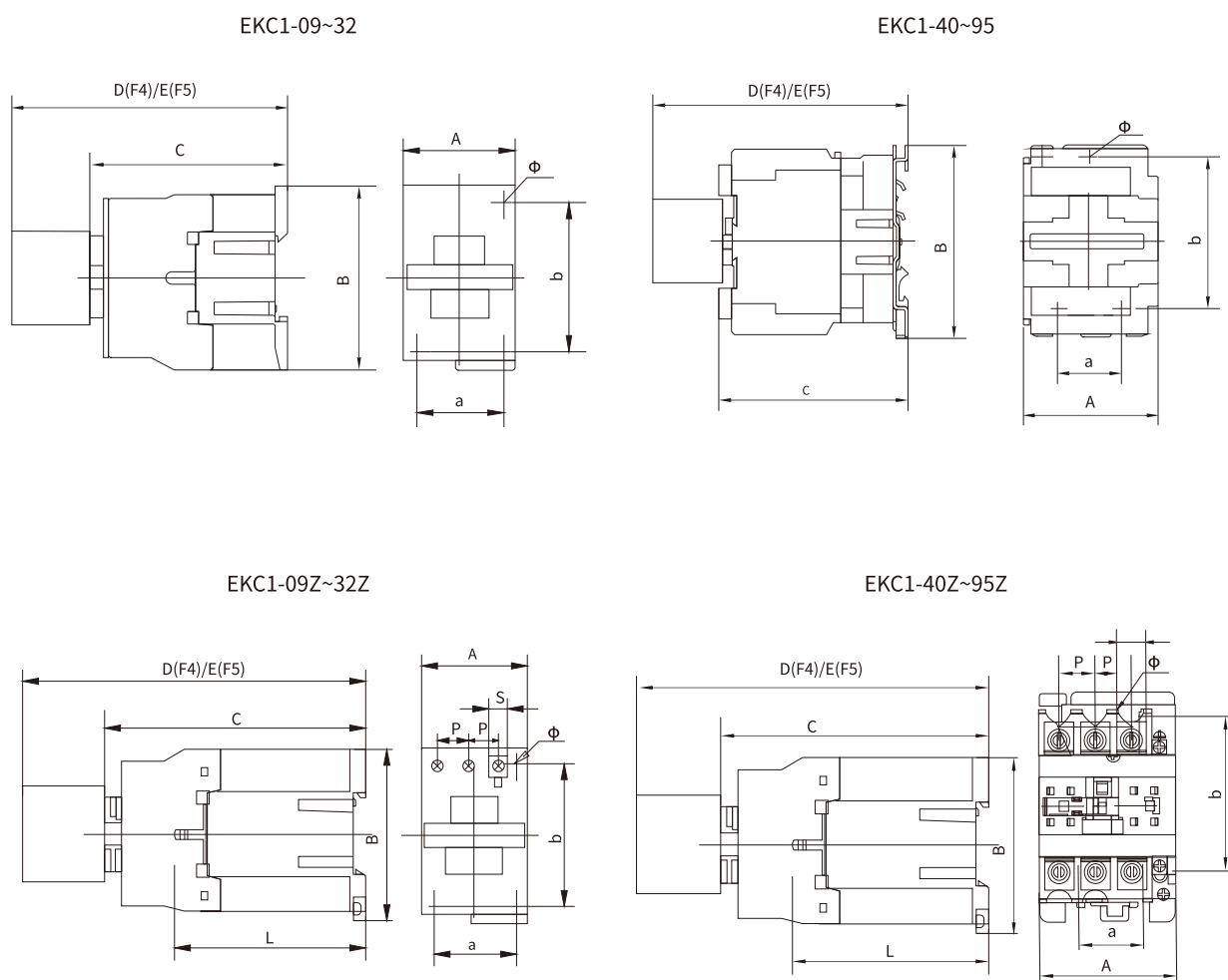
Technical Information

Terminal Connection	Model	Cabling cross section(Cu)				Screw size	Tightening torque(N.m)
		Number of piece	Flexible cable with cold-pressed socket(mm²)	Flexible cable without cold-pressed socket(mm²)	Inflexible cable(mm²)		
	EKC1-09	1~2	2.5	4	4	M3.5	0.8
	EKC1-12	1~2	2.5	4	4	M3.5	0.8
	EKC1-18	1~2	4	6	6	M3.5	0.8
	EKC1-25	1	4	10	6	M4	1.2
		2	4	6	6	M4	1.2
	EKC1-32	1	4	10	6	M4	1.2
		2	4	6	6	M4	1.2
	EKC1-40	1	10	16	10	M4	3.5
		2	10	10	10	M8	3.5
	EKC1-50	1	16	25	25	M8	3.5
		2	16	16	-	M8	3.5
	EKC1-65	1	16	25	25	M8	3.5
		2	16	16	-	M8	3.5
	EKC1-80	1	50	50	50	M8	3.5
		2	25	35	-	M10	4.0
	EKC1-95	1	50	50	50	M10	4.0
		2	25	35	-	M10	4.0

Curve



Overall and Installation Dimension(mm)



Note:

1. L: in main circuit, the distance between terminals and plate;
2. P: in main circuit, the distance between two phases;
3. S: in main circuit, the width of contacting plate.

Model	A Max	B Max	C Max	D Max	E Max	a	b	ϕ	L	P	S
EKC1-09(Z)~12(Z)	47	76	82(116)	125.5(160.5)	140.5(174.5)	34/35	50/60	4.5	60(95)	10.5	8.6
EKC1-18(Z)	47	76	87(122)	120.5(154.5)	145.5(180.5)	34/35	50/60	4.5	61(96)	11.3	10.4
EKC1-25(Z)	57	86	95(131)	133.5(169.5)	153.5(189.5)	40	48	4.5	70(107)	13.2	11.7
EKC1-32(Z)	57	86	100(138)	138.5(176.5)	158.5(196.5)	40	48	4.5	71.6(120)	14.5	13
EKC1-4011(Z)~6511(Z)	77	129	116(173)	154.5(211.5)	174.5(231.5)	40	100/110	6.5	78(135)	20	8.6
EKC1-4004/4008(Z)~6504/6508(Z)	84	129	116(173)	154.5(211.5)	174.5(231.5)	40	100/110	6.5	78(135)	20	8.6
EKC1-8011(Z)~9511(Z)	87	129	127(183)	165.5(226.5)	185.5(246.5)	40	100/110	6.5	83(140)	23.5	12
EKC1-8004/8008(Z)~9504/9508(Z)	96	129	127(183)	160.5(221.5)	180.5(241.5)	40	100/110	6.5	83(140)	23.5	12



EKC1-150



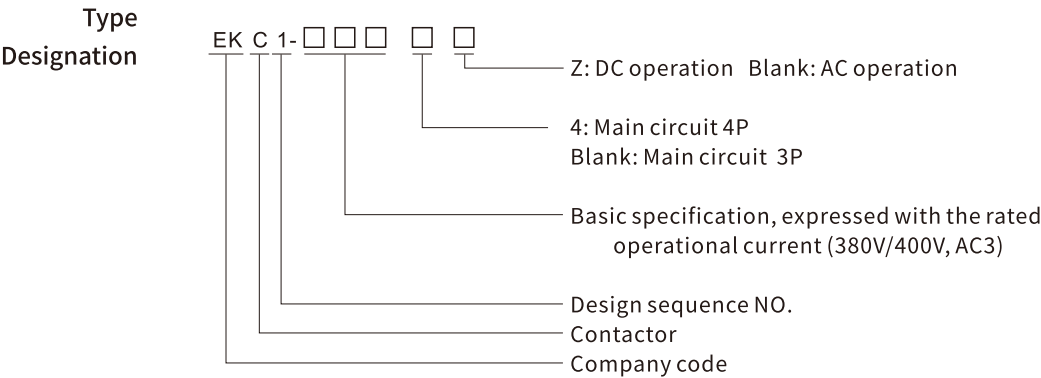
EKC1-265

Technical Data

Description		Remote making & breaking circuits
	Application	Protect circuit from over-load when assembling with thermal over-load relay
		Frequent start-up and control of AC contactor
	Electric value	AC50/60Hz, 690V, up to 1000A
	Utilization category	AC-3, AC-4
	Altitude	≤2000m
	Ambient temperature	-5°C~+40°C
	Mounting category	III
	Mounting conditions	Inclination between the mounting plane and the vertical plane should not exceed ±5°
	Standard	IEC/EN 60947-4-1

AC Coil Operation	Volts(VAC)	24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
	Code	60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-
		50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-

DC Coil Operation	Volts(VDC)	12	24	36	48	110	220
	Code	JD	BD	CD	ED	FD	MD





EKC1-400



EKC1-630

Technical Data

Technical Specification

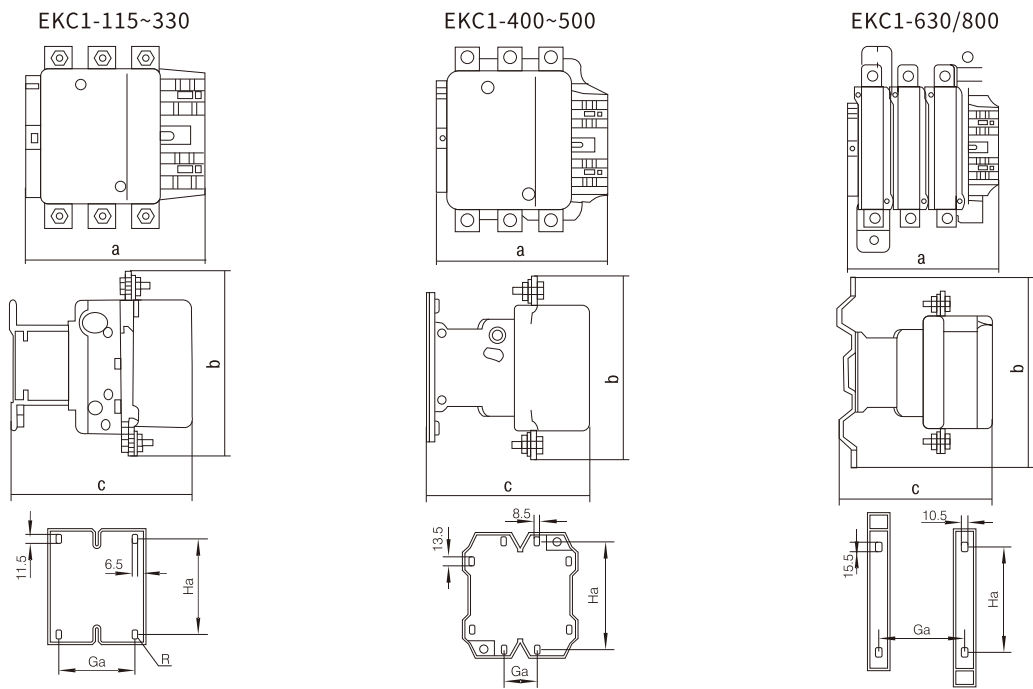
Standard	IEC/EN60947-4-1						
Model No.		EKC1-115	EKC1-150	EKC1-185	EKC1-225	EKC1-265	EKC1-330
Rated Conventional Heating Current	Ith(A)	200	200	275	275	315	380
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690	690
Rated Operation Current Ue=380/415V	AC-3 Ie(A)	115	150	185	225	265	330
	AC-4 Ie(A)	52	60	79	86	105	117
Power Controlled 3ph cage Motor AC-3	380/415V KW	55	75	90	110	132	160
	660/690V KW	80	100	110	129	160	220
Electrical life(x10 ³ operations)	AC-3	600	600	300	300	300	300
	AC-4	100	100	100	100	100	100
Mechanical life(x10 ⁶ operations)		6	6	3	3	3	3
Matched Fuse	Size	RT16-1	RT16-2	RT16-2	RT16-2	RT16-2	RT16-3
	A	200	225	315	315	355	450
Main circuit		3P or 4P					

Standard	IEC/EN60947-4-1						
Model No.		EKC1-400	EKC1-500	EKC1-630	EKC1-780	EKC1-800	EKC1-1000
Rated Conventional Heating Current	Ith(A)	460	580	850	1200	850	1200
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690	690
Rated Operation Current Ue=380/415V	AC-3 Ie(A)	400	500	630	780	800	1000
	AC-4 Ie(A)	138	147	188	240	195	320
Power Controlled 3ph cage Motor AC-3	380/415V KW	200	250	335	400	400	500
	660/690V KW	280	335	450	475	475	560
Electrical life(x10 ³ operations)	AC-3	300	300	300	200	200	200
	AC-4	100	100	100	50	50	50
Mechanical life(x10 ⁶ operations)		3	3	3	2	3	2
Matched Fuse	Size	RT16-3	RT16-4	RT16-4	RT16-4	RT16-4	RT16-4
	A	500	630	800	1250	800	1250
Main circuit		3P or 4P					

Technical Data

Terminal Connection	Model	Cabling cross section(Cu)		Screw size	Tightening torque(N.m)
		Number of piece	Cable Cross section(mm) ²		
	EKC1-115	1	70~90	M6	3
	EKC1-150	1	70~90	M8	6
	EKC1-185	1	95~150	M8	6
	EKC1-225	1	95~150	M10	10
	EKC1-265	1	120~185	M10	10
	EKC1-330	1	185~240	M10	10
	EKC1-400	1(2)	240(150)	M10	10
	EKC1-500	2	150~185	M10	10
	EKC1-630	2	185~240	M12	14
	EKC1-800	2	185~240	M12	14

Overall and Installation Dimension(mm)



Model	A Max	B Max	C Max
EKC1-115	163.5	162	171
EKC1-150	163.5	170	171
EKC1-185	168.5	174	181
EKC1-225	168.5	197	181
EKC1-265	201.5	203	213
EKC1-330	213	206	219
EKC1-400	213	206	219
EKC1-500	233	238	232
EKC1-630/800	309	304	255



EKC2-1811

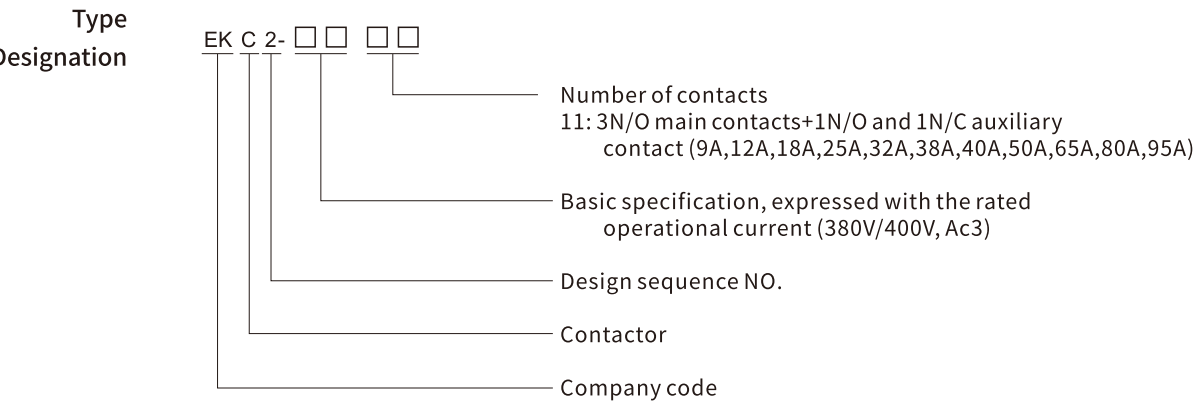


EKC2-2511

Technical Data

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

AC Coil Operation	Volts(VAC)		24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
	Code	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
		60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-	-
		50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-	-





EKC2-4011



EKC2-8011

Technical Data

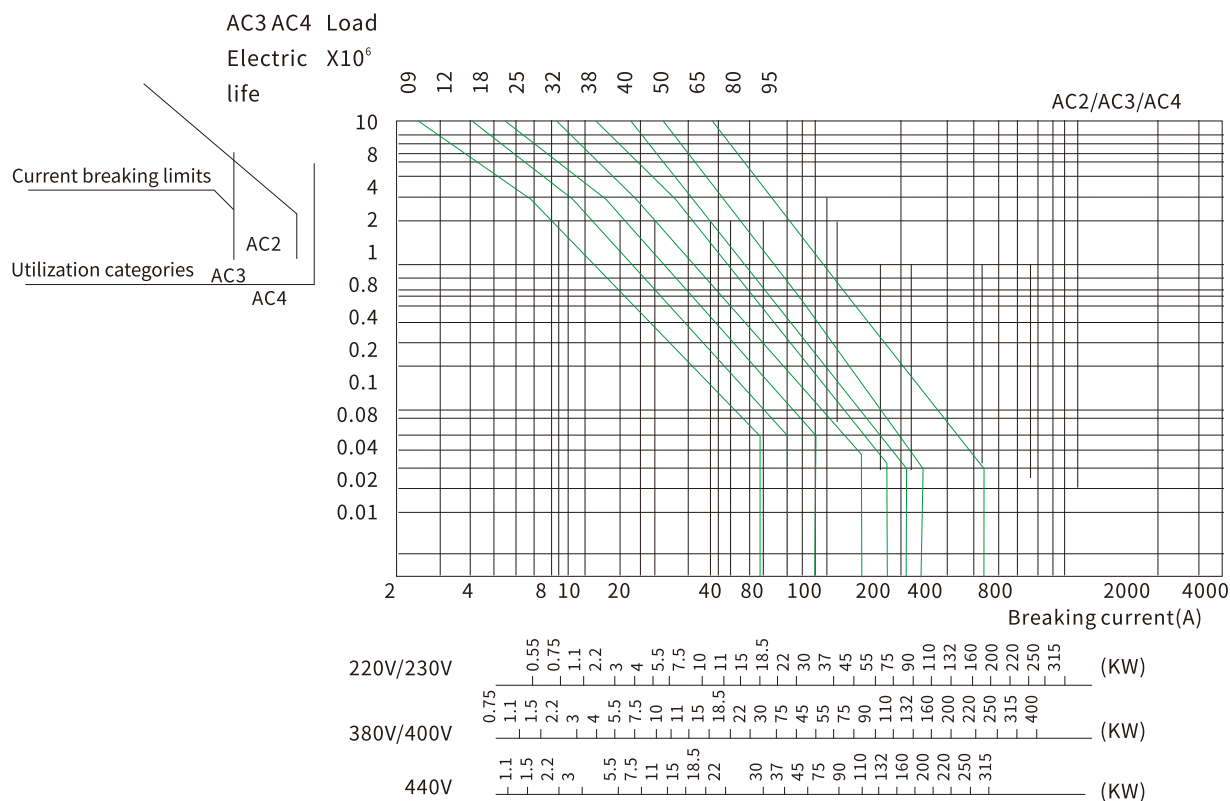
Technical Specification	Standard	IEC/EN60947-4-1 IEC/EN60947-5-1						
	Model No.		EKC2-09	EKC2-12	EKC2-18	EKC2-25	EKC2-32	EKC2-38
	Rated Conventional Heating Current	Ith(A)	20	20	32	40	50	50
	Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690	690
	Rated Operation Current Ue=380/415V	AC-3 Ie(A)	9	12	18	25	32	38
		AC-4 Ie(A)	3.5	5	7.7	8.5	12	14
	Power Controlled 3ph cage Motor AC-3	220/240V KW	2.2	3	4	5.5	7.5	8.9
		380/415V KW	4	5.5	7.5	11	15	18.5
		660/690V KW	5.5	7.5	10	15	18.5	18.5
	Electrial life(x10 ³ operations)	AC-3	1100	1100	1100	1100	900	900
		AC-4	220	220	220	220	220	220
	Mechanical life(x10 ⁶ operations)		12	12	12	10	10	10
	Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
		A	20					
Main circuit	3P							
Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO + 1NC							

Standard	IEC/EN60947-4-1 IEC/EN60947-5-1					
Model No.		EKC2-40	EKC2-50	EKC2-65	EKC2-80	EKC2-95
Rated Conventional Heating Current	Ith(A)	60	80	80	100	125
Rated Voltage Ui(V)	Ui(V)	690	690	690	690	690
Rated Operation Current Ue=380/415V	AC-3 Ie(A)	40	50	65	80	95
	AC-4 Ie(A)	18.5	24	28	37	44
Power Controlled 3ph cage Motor AC-3	220/240V KW	11	15	18.5	22	25
	380/415V KW	18.5	22	30	37	45
	660/690V KW	30	33	37	45	45
Electrial life(x10 ³ operations)	AC-3	900	900	900	650	650
	AC-4	170	170	170	110	110
Mechanical life(x10 ⁶ operations)		9	9	9	6.5	6.5
Matched Fuse	Size	RT16-00	RT16-00	RT16-00	RT16-00	RT16-00
	A	63	80	80	100	125
Main circuit	3P					
Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO + 1NC					

Technical information

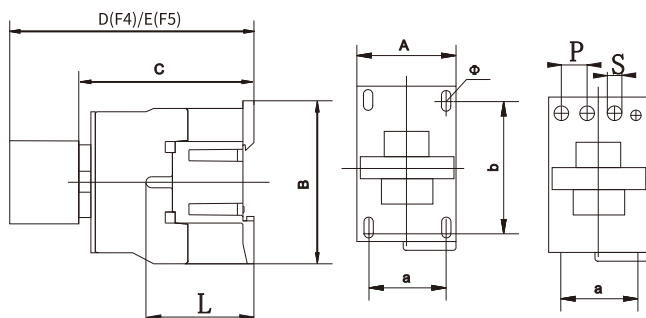
Terminal Connection	Model	Cabling cross section(Cu)				Screw size	Tightening torque(N.m)
		Number of piece	Flexible cable with cold-pressed socket(mm²)	Flexible cable without cold-pressed socket(mm²)	Inflexible cable(mm²)		
	EKC2-09	1~2	2.5	4	4	M3.5	0.8
	EKC2-12	1~2	2.5	4	4	M3.5	0.8
	EKC2-18	1~2	4	6	6	M3.5	0.8
	EKC2-25	1	4	10	6	M4	1.2
		2	4	6	6	M4	1.2
	EKC2-32	1	4	10	6	M4	1.2
		2	4	6	6	M4	1.2
	EKC2-38	1	4	10	6	M4	1.2
		2	4	6	6	M4	1.2
	EKC2-40	1	10	16	10	M4	3.5
		2	10	10	10	M8	3.5
	EKC2-50	1	16	25	25	M8	3.5
		2	16	16	-	M8	3.5
	EKC2-65	1	16	25	25	M8	3.5
		2	16	16	-	M8	3.5
	EKC2-80	1	50	50	50	M8	3.5
		2	25	35	-	M10	4.0
	EKC2-95	1	50	50	50	M10	4.0
		2	25	35	-	M10	4.0

Curve

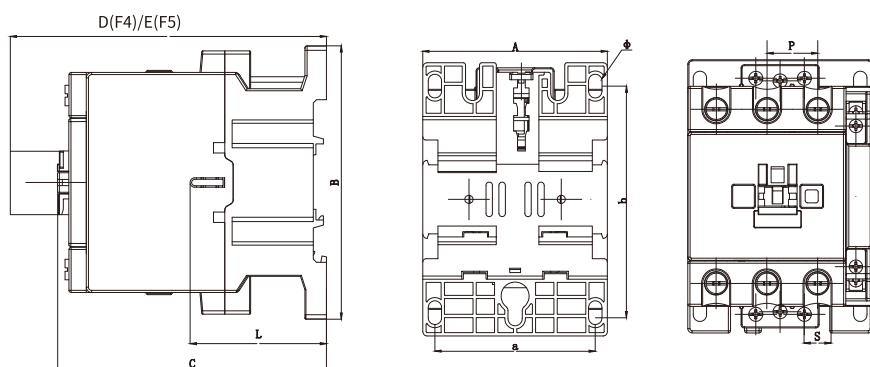
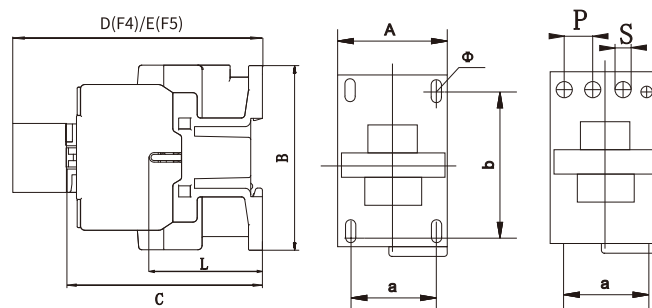


Overall and Mounting Dimension(mm)

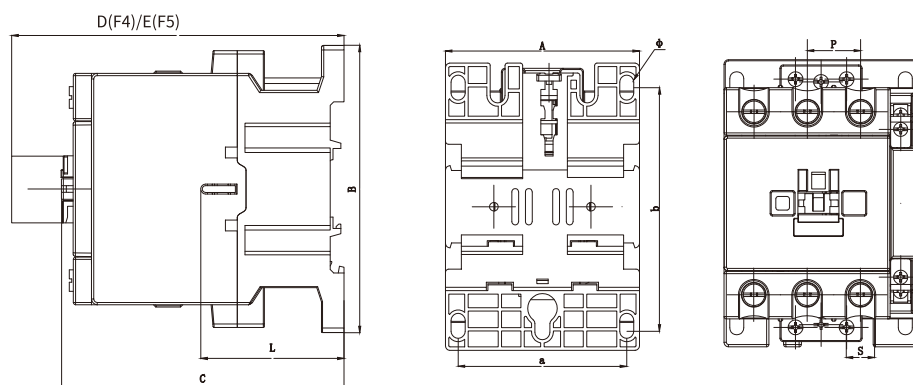
EKC2-09~18



EKC25~32



EKC2-40~65



EKC2-80~95

Model	A Max	B Max	C Max	D Max	E Max	a	b	φ	L	P	S
EKC2-09~18	45	74.5	87	120	124	34.5	50/60	4.5	51	11	10.5
EKC2-25~32	56	87	98.6	132	136	40	61.5	4.5	59.3	14.2	13
EKC2-40~65	75	127	118	151.1	155	63.5	105	6.0	63.2	20	14
EKC2-80~95	86	126.5	126.5	158.5	162.5	74.5	105	6.0	63.2	23.5	17.5



EKCC-12



EKCC-20

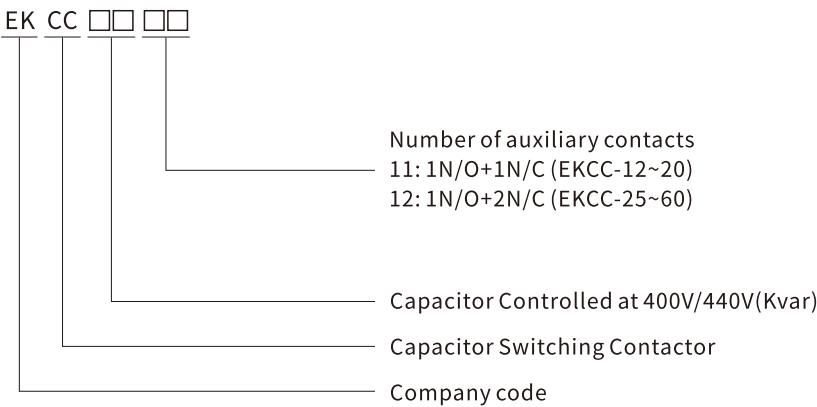


EKCC-60

Technical Data

Description	Electric value	AC50/60Hz, up to 690V;
	Ambient temperature	-5°C~+40°C; the average during 24 hours should not exceed +35°C
	Altitude	≤2000m;
	Atmosphere conditions	At mounting site,relative humidity not exceed 50% at the max temperature of +40°C, higher relative humidity is allowable under lower temperature. For example,RH could be 90% at +20°C,special measures should be taken to occurrence of dews;
	Pollution degree	3
	Installation category	III
	Installation conditions	The inclination between installation plane and vertical plane is within ±5°
	Impact and shake	The products should locate in the places where there are no obvious impact and shake

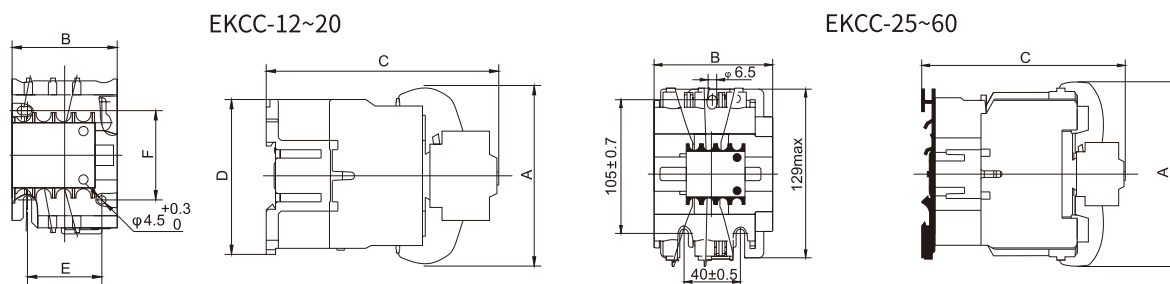
Type
Designation



Technical Data

Technical Specification	Standard	IEC/EN60947-4-1							
	Model No.		EKCC-12	EKCC-16	EKCC-20	EKCC-25	EKCC-33	EKCC-40	EKCC-60
	Contactor size		EKC1-18	EKC1-25	EKC1-32	EKC1-40	EKC1-50	EKC1-65	EKC1-95
	Rated Conventional Heating Current	Ith(A)	32	40	50	60	80	80	125
	Rated Work Current	415V/Ie (A)	18	25	32	40	50	65	95
	Capacitor Controlled	220V/240V(Kvar)	6	8	10	12.5	16.5	20	30
		400V/440V(Kvar)	12	16	20	25	33	40	60
	Rated Insulation Voltage	Ui(V)	690	690	690	690	690	690	690
	Rated Operation Voltage	Ue(V)	400	400	400	400	400	400	400
	Electrial life(x10 ³)	Times	120	120	120	100	100	100	100
	Mechanical life(x10 ³)	Times	3000	3000	3000	3000	3000	3000	3000
	Restrained Surge Capacity	x Ie	15						
	Auxiliary Contact	Ith=10A	1NO+1NC			1NO+2NC			
		Control Capacity	AC-15 360VA; DC-13 33W						
COIL PARAMETERS									
	Coil Power(VA)	Start-up	76	110	110	230	230	230	230
		Holding	10	11	11	32	32	32	32
	Rated Control Power	Us(V)	24,36,48,110,220,380						
	Pull time	Ms	12~22	15~24	15~24	20~26	20~26	20~26	20~35
	Release time	Ms	4~12	5~19	5~19	8~12	8~12	8~12	6~20
	Operation Range	Pick-up	(85%-110%)Us						
		Drop-out	(20%-75%)Us						

Overall and Installation Dimension(mm)



Model	A Max	B Max	C Max	D Max	E	F	Note
EKCC-12	80	47	124	76	34/35	50/60	be fixed with 35mm din rail
EKCC-16	90	57	132	86	40	48	
EKCC-20	90	57	132	86	40	48	
EKCC-25	132	77	150	-	-	-	Not only fixed by screws but also could be fixed with 35mm and 75mm DIN rail
EKCC-33	132	77	150	-	-	-	
EKCC-40	132	77	150	-	-	-	
EKCC-60	135	87	162	-	-	-	

Wiring and installation

The connection terminals are protected through insulation cover, which is reliable and secure for installation and operation; For EKCC-12~20, screws are available for installation, as well as the DIN rail; For EKCC-25~60, 35mm or 75mm standard rail are available for installation.



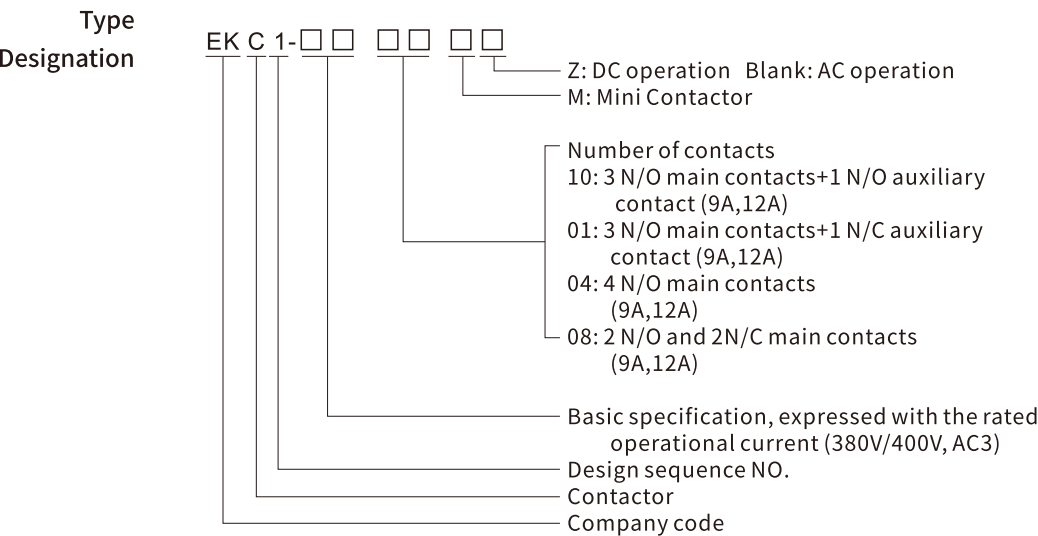
EKC1-0910M

Technical Data

Description	Application	Remote making & breaking circuits
		Protect circuit from over-load when assembling with thermal over-load relay
		Frequent start-up and control of AC contactor
	Electric value	AC50/60Hz, 690V, up to 12A
	Utilization category	AC-3, AC-4
	Altitude	≤2000m
	Ambient temperature	-5°C~+40°C
	Mounting category	III
	Mounting conditions	Inclination between the mounting plane and the vertical plane should not exceed ±5°
	Standard	IEC/EN 60947-4-1. IEC/EN 60947-5-1.

Control Coil Voltage AC Coil Operation	Volts(VAC)	24	36	42	48	110	127	220	230	240	380	415	440	480	500	600
	50Hz	B5	C5	D5	E5	F5	G5	M5	P5	U5	Q5	N5	R5	-	S5	Y5
	60Hz	B6	-	D6	E6	F6	G6	M6	-	U6	Q6	-	R6	T6	-	-
	50/60Hz	B7	-	D7	E7	F7	-	M7	P7	-	Q7	N7	R7	-	-	-

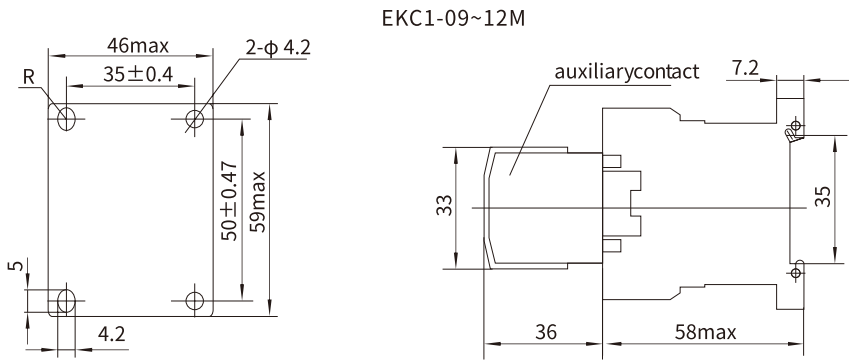
DC Coil Operation	Volts(VDC)	12	24	36	48	110	220
	Code	JD	BD	CD	ED	FD	MD



Technical Data

Technical Specification	Standard	IEC/EN60947-4-1 IEC/EN60947-5-1	
	Model No.	EKC1-09M	EKC1-12M
	Rated Conventional Heating Current	Ith(A)	20
	Rated Voltage Ui(V)	690	690
	Rated Operation Current Ue=380/415V	AC-3 Ie(A)	9
		AC-4 Ie(A)	3.5
	Power Controlled 3ph cage Motor AC-3	220/240V KW	2.2
		380/415V KW	4
		660/690V KW	5.5
	Electrial life(x10 ³ operations)	AC-3	1000
		AC-4	200
	Mechanical life(x10 ⁶ operations)	10	10
	Matched Fuse	Size	RT16-00
		A	20
	Main circuit	3P or 4P	
	Auxiliary circuit Cat.:AC-15,Ue=415V Ie=0.95A Ith=10A	1NO or 1NC	

Overall and Installation Dimension(mm)





EKR2-1314



EKR2-2353

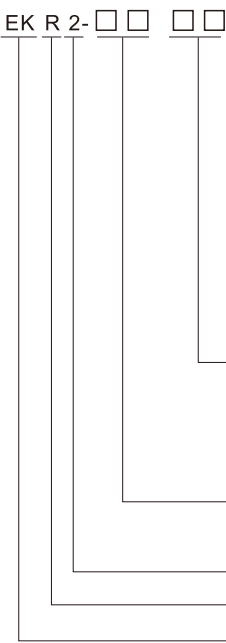


EKR2-3355

Technical Data

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

Type
Designation

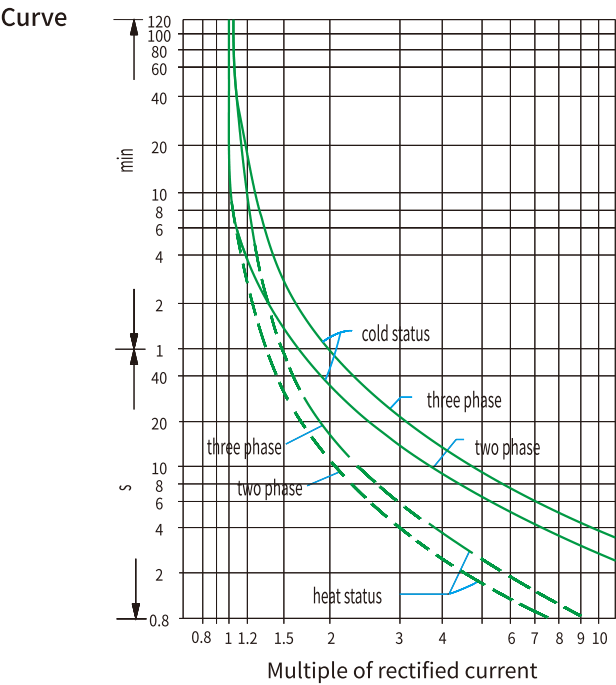


- Code of current rating
Basic specification, expressed with the rated
operational current (380V/400V, AC3)
- Frame Size
- Design sequence Number
- Thermal Overload Relay
- Company code

Feature	3-phase bimetal
	Continuously readjustable current settings
	Temperature compensation
	Tripping indicator
	Test button
	Stop button
	Manual and automatic reset button
	Electrically separated 1N/O plus 1N/C contact

Technical Specification

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



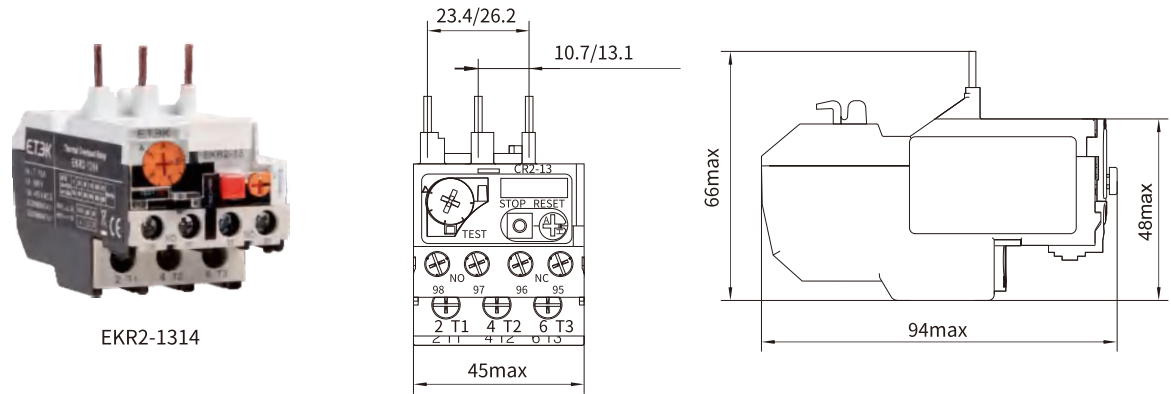
Main Technical Data	Phase failure protection function	Yes
	Automatic & manual reset	Yes
	Temperature compensation	Yes
	Tripping indicator	Yes
	Test & stop pushbutton	Yes
Mounting mode	Plug-in	Yes
	Independent	Yes
	No. of contacts	1N/O+1N/C
Auxiliary contacts	Rated current (A) (AC-15 220V)	2.73
	Rated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

Assembly with contactor

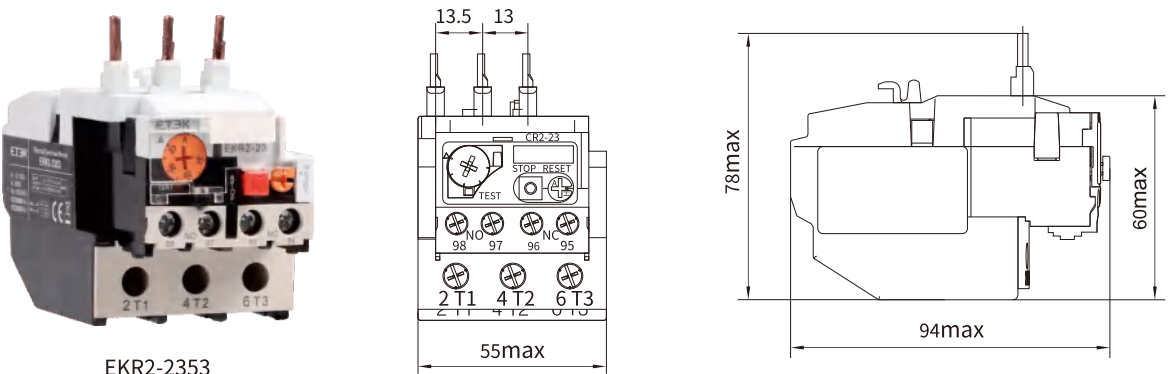
Model of overload relay	Code	Rated current (A)	Recommended fuse type(Recommended RT16)		Contactor Matched
			aM	gG	
EKR2-13	1301	0.1~0.16	0.25	2	EKC1-09 EKC1-12 EKC1-18 EKC1-25 EKC1-32
	1302	0.16~0.25	0.5	2	
	1303	0.25~0.4	1	2	
	1304	0.4~0.63	1	2	
	1305	0.63~1	2	4	
	1306	1~1.6	2	4	
	1307	1.6~2.5	4	6	
	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	EKC1-32
	2355	30~40	40	80	
EKR2-33	3353	23~32	40	63	EKC1-40 EKC1-50 EKC1-65 EKC1-80 EKC1-95
	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	

Overall and Installation Dimension(mm)

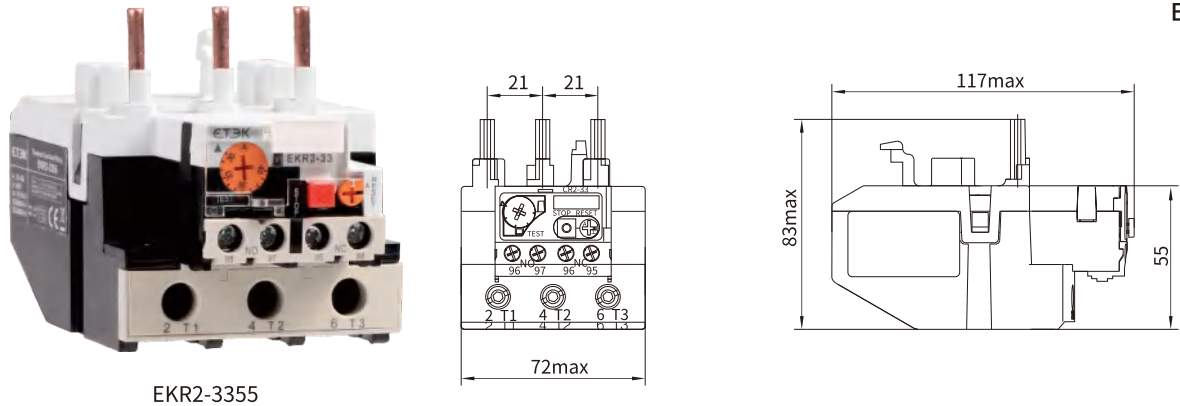
EKR2-13



EKR2-23



EKR2-33



Wiring		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	EKF4-40	4NO	EKC1-09~95 EKC1-115~800
		EKF4-31	3NO+1NC	
		EKF4-22	2NO+2NC	
		EKF4-13	1NO+3NC	
		EKF4-04	4NC	
	Auxiliary Contact 2-pole Front mount	EKF4-20	2NO	EKC1-09~95
		EKF4-11	1NO+1NC	
		EKF4-02	2NC	
	Auxiliary Contact 2-pole Side mount	EKF8-20	2NO	EKC1-09~95
		EKF8-11	1NO+1NC	
		EKF8-02	2NC	
	1NO+1NC Pneumatic timer ON-delay	EKF5-T0	0.1~3s	EKC1-09~95 EKC1-115~800
		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	
	Auxiliary Contact 4-pole Front mount	EKF4-40M	4NO	EKC1-09~12M
		EKF4-31M	3NO+1NC	
		EKF4-22M	2NO+2NC	
		EKF4-13M	1NO+3NC	
		EKF4-04M	4NC	
	Auxiliary Contact 2-pole Front mount	EKF4-20M	2NO	EKC1-09~12M
		EKF4-11M	1NO+1NC	
		EKF4-02M	2NC	
	Contactor Coil	EKX1-2	AC Volts	EKC1-09~18
		EKX1-4	AC Volts	EKC1-25~32
		EKX1-6	AC Volts	EKC1-40~95
	Contactor Coil Water Proof	EKX1-6N	AC Volts	EKC1-40~95
		EKX1-FF	AC Volts	EKC1-115~150
		EKX1-FG	AC Volts	EKC1-185~225
		EKX1-FH	AC Volts	EKC1-265
		EKX1-FJ	AC Volts	EKC1-400
		EKX1-FK	AC Volts	EKC1-500
		EKX1-FL	AC Volts	EKC1-630
		EKX1-FX	AC Volts	EKC1-780

	Sepecification	Model	Contactor Matched
	Accessories for Reversing/ change-over type contactor	EKA9-0932	EKC1-09~32
		EKA9-4095	EKC1-40~95
		EKA9-FF970	EKC1-115~150
		EKA9-FB970	EKC1-185~225
		EKA9-FH970	EKC1-265~330
		EKA9-FJ970	EKC1-400~500
		EKA9-FL970	EKC1-630~800
	Sepecification	Model	TOR Matched
	Mounting Block for Thermal Overload Relay	EKA9-1064	EKR2-13
		EKA9-2064	EKR2-23
		EKA9-3064	EKR2-33

Mounting Sketch Map





EKQ1-09/18

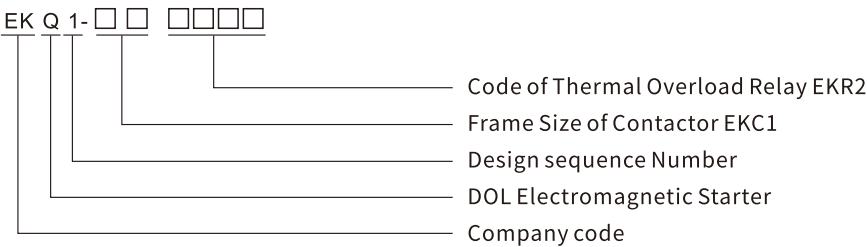
EKQ1-25/32

EKQ1-40~95

Technical Data

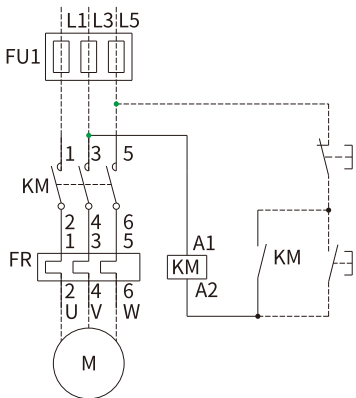
Description EKQ1 series electromagnetic starter ("starter" for short hereinafter) applies mainly to circuit with AC current of 50Hz (or 60Hz), rated operational voltage of 660V and rated controlled power up to 45kW (current up to 95A) for using to control the direct start and halt of the electromotor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

Type Designation

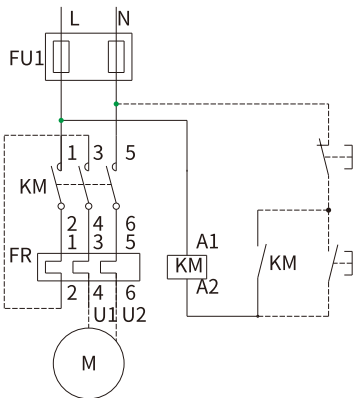


- Feature**
- 3-phase bimetal
 - Continuously readjustable current settings
 - Temperature compensation
 - Tripping indicator
 - Test button
 - Stop button
 - Manual and automatic reset button
 - Electrically separated 1N/O plus 1N/C contact

Wiring Diagram



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



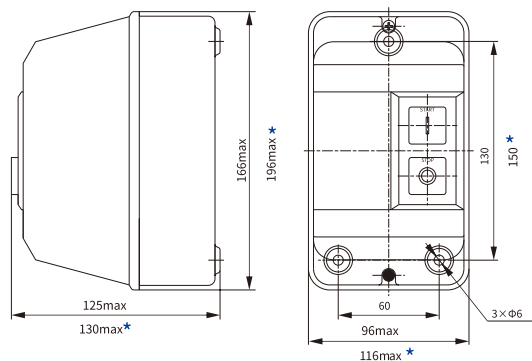
Control supply voltage is as the same a the main circuit voltage (single-phase)

Basic Model and main technical parameter of the starter

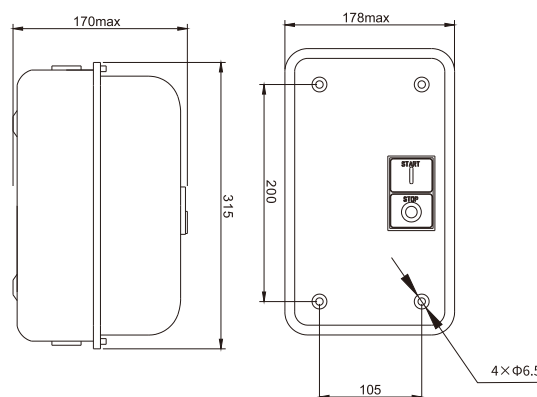
Model	Range of setting current A	Current (A)	Maximum rated Power (kW)			Model of equipped AC contactor	TOR matched
			600V	380V	220V		
EKQ1-09/1301	0.1~0.16	9	5.5	4	2.2	EKC1-09	EKR2-13
EKQ1-09/1302	0.16~0.25						
EKQ1-09/1303	0.25~0.4						
EKQ1-09/1304	0.4~0.63						
EKQ1-09/1305	0.63~1						
EKQ1-09/1306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

Overall and Installation 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

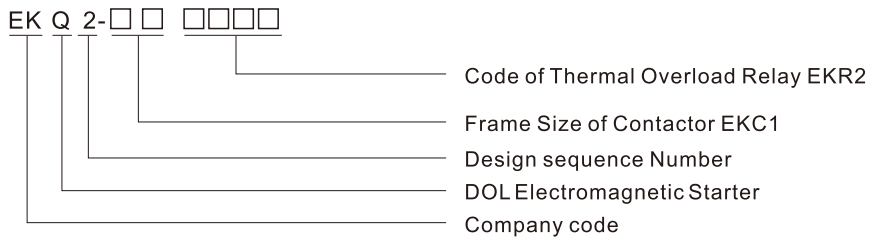


EKQ2-40~95

Description

- EKQ2 series 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 15kW (current up to 32A) for using to control the direct start and halt of the electromotor to protect the motor from overload and phase failure.
- The starter conforms to standards IEC/EN60947-4-1

Type Designation

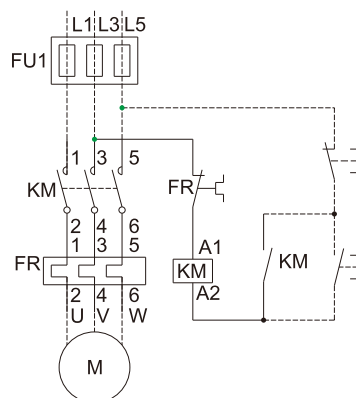


Description

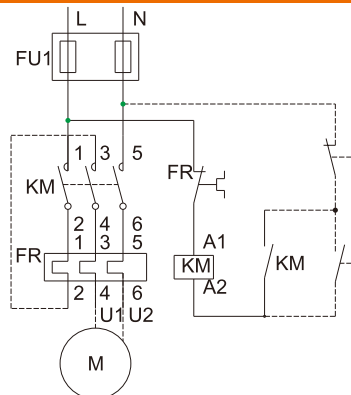
3-phase bimetal
Continuously readjustable current settings
Temperature compensation
Tripping indicator

Test button
Stop button
Manual and automatic reset button
Electrically separated 1N/O plus 1N/C contact

Wiring Diagram



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



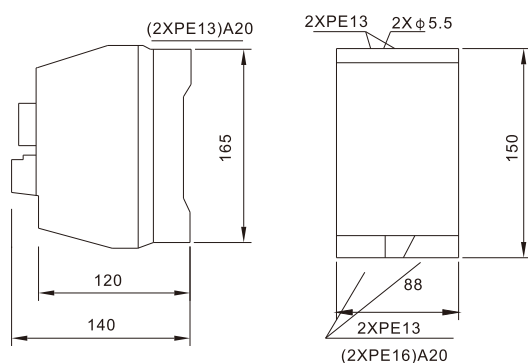
Control supply voltage is as the same as the main circuit voltage (single-phase)

Basic Model and main technical parameter of the starter

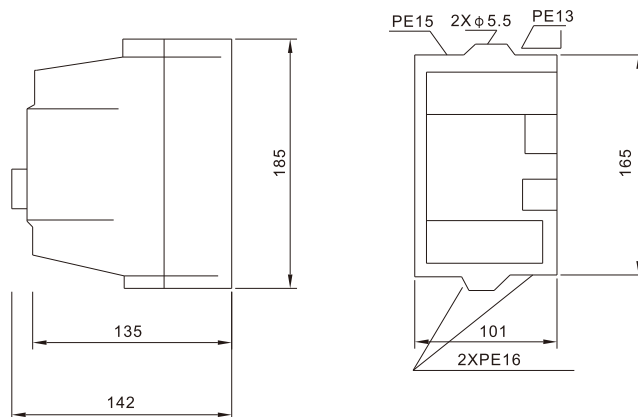
Model	Range of setting current A	current (A)	Maximum rated Power (kW)			Model of equipped AC contactor	TOR matched
			AC-3				
			660V	380V	220V		
EKQ2-09/1301	0.1~0.16	9	5.5	4	2.2	EKC1-09	EKR2-13
EKQ2-09/1302	0.16~0.25						
EKQ2-09/1303	0.25~0.4						
EKQ2-09/1304	0.4~0.63						
EKQ2-09/1305	0.63~1						
EKQ2-09/1306	1~1.6						
EKQ2-09/1307	1.6~2.5						
EKQ2-09/1308	2.5~4						
EKQ2-09/1310	4~6						
EKQ2-09/1312	5.5~8						
EKQ2-09/1314	7~10	18	10	7.5	4	EKC1-18	EKR2-13
EKQ2-18/1314	7~10						
EKQ2-18/1316	9~13						
EKQ2-18/1321	12~18	25	15	11	5.5	EKC1-25	EKR2-13
EKQ2-25/1321	12~18						
EKQ2-25/1322	17~25	32	18.5	15	7.5	EKC1-32	EKR2-23
EKQ2-32/2353	23~32						
EKQ2-40/3353	30~40	40	30	18.5	11	EKC1-40	EKR2-33
EKQ2-50/3357	37~50	50	33	22	15	EKC1-50	EKR2-33
EKQ2-65/3359	48~65	65	37	30	18.5	EKC1-65	EKR2-33
EKQ2-80/3361	55~70	80	45	37	22	EKC1-80	EKR2-33
EKQ2-80/3363	63~80						
EKQ2-95/3365	80~93	95	45	45	25	EKC1-95	EKR2-33

Overall and Installation Dimension(mm)

EKQ2-09~18(Plastic base + Plastic cover)



EKQ2-25~32(Plastic base + Plastic cover)



Note: Dimension of EKQ2-40~95 is same as EKQ1-40~95

EKMS2 MPCB

ETEK®

Motor Protection Circuit Breaker

Standard_ IEC60947-4-2



EKMS2-32



EKMS2-32P



EKMS2-32R



EKMS2-80



EKMS2-80P

Technical Data

Description	Electric value	AC690V, 32A, 80A
	Standard	IEC/EN 60947-2, IEC60947-4-1

Type
Designation

EKM S 2-□□□□

Code of Rated current
Frame size rated current (A)
Design sequence Number
AC motor starter
Company code

Operating Condition	Temperature:	-5°C~+40°C, average temperature in 24 hours not exceed +35°C
	Altitude	not exceed 2000m
	Air conditions	At mounting site, relative humidity not exceed 50% at the max temperature of +40°C, higher relative humidity is allowable under lower temperature, for example, RH could be 90% at +20°C
	Release grade	Grade III
	Eelease grade	10A(EKMS2-32) 10A(EKMS2-80)
	Rated operational system	Continuous operational system
	Mounting conditions	The inclination between the mounting plane and the vertical plane shall not exceed 5° The product shall be installed and operated at a place without obvious shake, Impact and vibration

Protection
Property

Over-load Protection Properties						
Series No.	Multiple of setting current	Initial status	Time		Expected results	Ambient temperature
1	1.05	Cold status	$t \geq 2h$		Non-tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
2	1.20	Heat status (right after test.1)	$t < 2\text{min}$		Tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
3	1.50	Heat status (right after test.1)	Tripping class	10A $t < 2\text{min}$	Tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
				10 $t < 4\text{min}$		
4	7.20	Cold status	Tripping class	10A $2s < t \leq 10s$	Tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
				10 $4s < t \leq 10s$		

Protection
Property

Phase failure protection properties						
Series No.	Multiple of setting current		Initial status	Time	Expected results	Ambient temperature
	Any 2 phase	The other phase				
1	1.0	0.9	Cold status	$t \geq 2h$	Non-tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$
2	1.15	0	Heat status (right after test.1)	$t < 2h$	Tripping	$+20^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Temperature compensation properties

Protection Property	Series No.	Multiple of setting current	Initial status	Time	Expected results	Ambient temperature
	1	1.0	Cold status	$t \geq 2h$	Non-tripping	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$
	2	1.2	Heat status (right after test.1)	$t < 2\text{min}$	Tripping	$+40^{\circ}\text{C} \pm 2^{\circ}\text{C}$
	3	1.05	Cold status	$t \geq 2h$	Non-tripping	$-5^{\circ}\text{C} \pm 2^{\circ}\text{C}$
	4	1.3	Heat status (right after test.1)	$t < 2\text{min}$	Tripping	$-5^{\circ}\text{C} \pm 2^{\circ}\text{C}$

Model of overload relay	Code	Rated current(A)	Rated ultimate short-circuit breaking capacity lcu(kA)			Rated service short-circuit breaking capacity lcs(kA)			Standard rated power of three-phase motor (kW)		
			230/240V	400/415V	660/690V	230/240V	400/415V	660/690V	230/240V	400/415V	660/690V
EKMS2-32	3201	0.1~0.16	100	100	100	100	100	100	-	-	-
	3202	0.16~0.25	100	100	100	100	100	100	-	-	-
	3203	0.25~0.4	100	100	100	100	100	100	-	-	-
	3204	0.4~0.63	100	100	100	100	100	100	-	-	0.37
	3205	0.63~1	100	100	100	100	100	100	-	-	0.55
	3206	1~1.6	100	100	100	100	100	100	-	-	1.1
	3207	1.6~2.5	100	100	3	100	100	2.25	0.37	0.75	1.5
	3208	2.5~4	100	100	3	100	100	2.25	0.75	1.5	3
	3210	4~6.3	100	100	3	100	100	2.25	1.1	2.2	4
	3214	6~10	100	100	3	100	100	2.25	2.2	4	7.5
	3216	9~14	100	15	3	100	7.5	2.25	3	5.5	9
	3220	13~18	100	15	3	100	7.5	2.25	4	9	11
	3221	17~23	50	15	3	50	6	2.25	5.5	11	15
	3222	20~25	50	15	3	50	6	2.25	5.5	11	18.5
EKMS2-80	3232	24~32	50	15	3	50	6	2.25	7.5	12.5	22
	8025	16~25	-	15	-	-	7.5	-	5.5	11	-
	8040	25~40	-	15	-	-	7.5	-	11	22	-
	8063	40~63	-	15	-	-	7.5	-	15	33	-
	8080	56~80	-	15	-	-	7.5	-	22	45	-

Accessories

Under-Voltage Release



Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	35%~70%Ue	EKMS2-UV110	110~115V 50Hz
690	35%~70%Ue	EKMS2-UV127	127V 60Hz
690	35%~70%Ue	EKMS2-UV220	220~240V 50Hz
690	35%~70%Ue	EKMS2-UV380	380~400V 50Hz
690	35%~70%Ue	EKMS2-UV440	440V 60Hz

Shunt Release



Rated insulation voltage Ui(V)	Voltage range of operation	Model	Specification
690	70%~110%Ue	EKMS2-SH110	110~115V 50Hz
690	70%~110%Ue	EKMS2-SH127	127V 60Hz
690	70%~110%Ue	EKMS2-SH220	220~240V 50Hz
690	70%~110%Ue	EKMS2-SH380	380~400V 50Hz
690	70%~110%Ue	EKMS2-SH440	440V 60Hz

Instantaneous auxiliary contact



Rated insulation voltage Ui(V)	Conventional heating current Ith(A)	Model	Configuration
250	2.5	EKMS2-AE20	2N/O
250	2.5	EKMS2-AE11	1N/O+1N/C



Rated insulation voltage U_i (V)	Conventional heating current I_{th} (A)	Model	Configuration	Starter matched
690	6	EKMS2-AN20	2N/O	EKMS2-32
690	6	EKMS2-AN11	1N/O+1N/C	
690	6	EKMS2-AU20	2N/O	EKMS2-80
690	6	EKMS2-AU11	1N/O+1N/C	

Fault signal contact and instantaneous auxiliary contact



Rated insulation voltage U_i (V)	Conventional heating current I_{th} (A)		Model	Configuration
	Instantaneous auxiliary contact	Fault signal contact		
690	6	2.5	EKMS2-FA0110	1N/C+1N/O
690	6	2.5	EKMS2-FA0101	1N/C+1N/C
690	6	2.5	EKMS2-FA1010	1N/O+1N/O
690	6	2.5	EKMS2-FA1001	1N/O+1N/C

Application class, rated operational voltage and rated operational current of instantaneous auxiliary contact

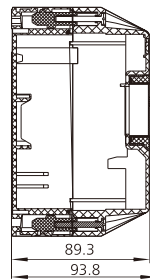
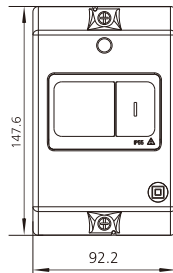
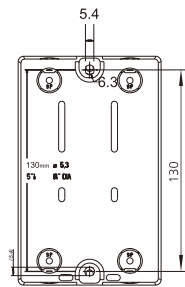
Utilization category	AC-15				DC-13		
Rated operational voltage U_e (V)	24	48	110/127	230/240	24	48	60
Rated operational current I_e (A)	2	1.25	1	0.5	1	0.3	0.15
Normal operational power P (W)	48	60	127	120	24	15	9



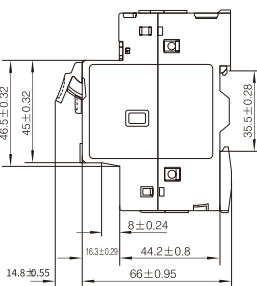
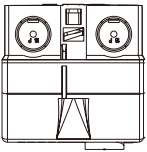
EKMS2-MC Installation box without pushbutton

IP55

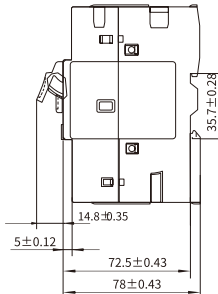
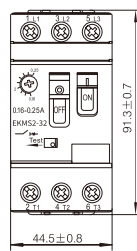
Overall and Installation Dimension(mm)



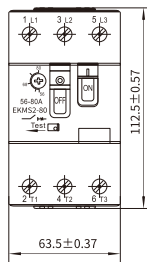
EKMS2-MC



EKMS2-32



EKMS2-80



LED INDICATOR

Application

EKLD series indicator light are used in the telecommunication 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

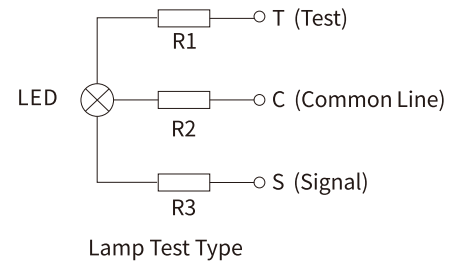
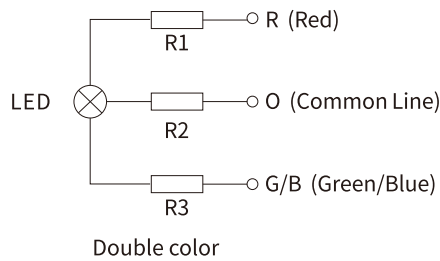
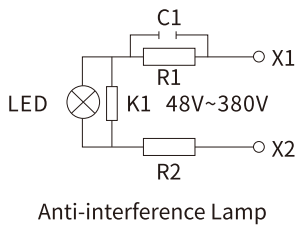
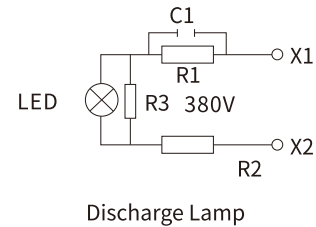
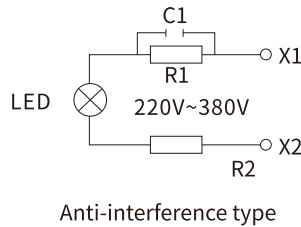
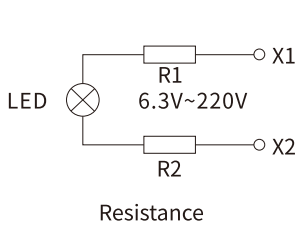
EKLD-22: □22.5 mm to □25.5mm,

EKLD-16: □16.5 mm to □16.5mm.



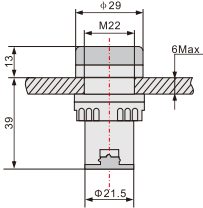
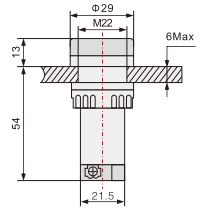
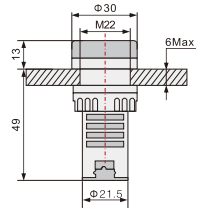
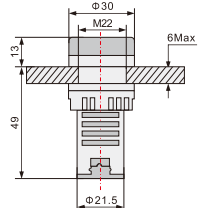
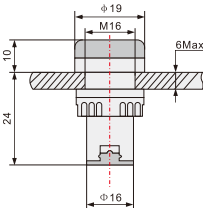
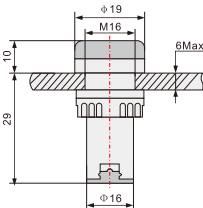
ELECTRIC

Schematic Diagram

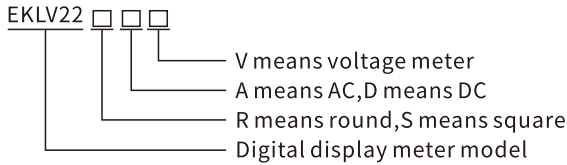


Man Technical Parameter

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



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 .

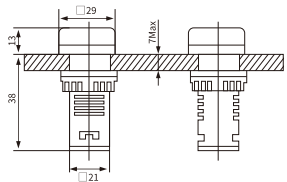
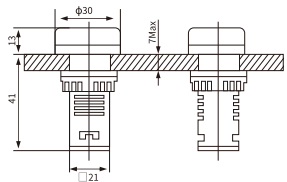
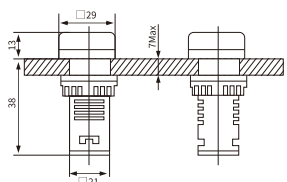
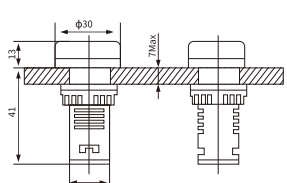


Working Condition

- 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.



Main Technical Parameter

Operation temperature	-5°C~+40°C					
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	✓	✓	✓	✓	✓	✓	✓	—	✓	✓

EKPB2

ETEK®

Pushbutton Switch (φ22mm)

Standard_ IEC60947-5-1

Plastic Type	Description	Type	Scheme	color
	Flush button spring return	EKPB2-EA11	N/O	○ White
		EKPB2-EA21	N/O	● Black
		EKPB2-EA31	N/O	● Green
		EKPB2-EA51	N/O	● Yellow
		EKPB2-EA61	N/O	● Blue
		EKPB2-EA42	N/C	● Red
		EKPB2-EA25	N/O+N/C	● Black
		EKPB2-EA35	N/O+N/C	● Green
		EKPB2-EA45	N/O+N/C	● Red
	Button with protective cover IP65	EKPB2-EP11	N/O	○ White
		EKPB2-EP21	N/O	● Black
		EKPB2-EP31	N/O	● Green
		EKPB2-EP51	N/O	● Yellow
		EKPB2-EP61	N/O	● Blue
		EKPB2-EP42	N/C	● Red
		EKPB2-EP25	N/O+N/C	● Black
		EKPB2-EP35	N/O+N/C	● Green
		EKPB2-EP45	N/O+N/C	● Red
	Protruding button	EKPB2-EL11	N/O	○ White
		EKPB2-EL21	N/O	● Black
		EKPB2-ELP31	N/O	● Green
		EKPB2-EL51	N/O	● Yellow
		EKPB2-EL61	N/O	● Blue
		EKPB2-EL42	N/C	● Red
		EKPB2-EL25	N/O+N/C	● Black
		EKPB2-EL35	N/O+N/C	● Green
		EKPB2-EL45	N/O+N/C	● Red
	Standard handle knob	EKPB2-ED21	N/O	∨
		EKPB2-ED25	N/O+N/C	∨
		EKPB2-ED41	N/O	↘
		EKPB2-ED45	N/O+N/C	↘
		EKPB2-ED33	2NO	∨
		EKPB2-ED53	2NO	↘
	Long handle knob	EKPB2-EJ21	N/O	∨
		EKPB2-EJ25	N/O+N/C	∨
		EKPB2-EJ41	N/O	↘
		EKPB2-EJ45	N/O+N/C	↘
		EKPB2-EJ33	2NO	∨
		EKPB2-EJ53	2NO	↘

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

Plastic Type	Description	Type	Scheme	color
	Push and pull type emergency button	φ40 EKPБ2-ET42	N/C	Red
		φ40 EKPБ2-ET845	N/O+N/C	Red
	Mushroom rotation auto-reset emergency button with key	φ40 EKPБ2-ES142	N/C	Red
		φ40 EKPБ2-ES8445	N/O+N/C	Red
	Indicator light 6V~380V	Directness EKPБ2-EV61		White
		Directness EKPБ2-EV63		Green
		Directness EKPБ2-EV64		Red
		Directness EKPБ2-EV65		Yellow
		Directness EKPБ2-EV66		Blue
		Resistance EKPБ2-EV71		White
		Resistance EKPБ2-EV73		Green
		Resistance EKPБ2-EV74		Red
	Flush button with lamp Directness 6V~380V	EKPБ2-EW3161	N/O	White
		EKPБ2-EW3361	N/O	Green
		EKPБ2-EW3462	N/C	Red
		EKPБ2-EW3561	N/O	Yellow
		EKPБ2-EW3661	N/O	Blue
		EKPБ2-EW3365	N/O+N/C	Green
		EKPБ2-EW3465	N/O+N/C	Red
	For making up body assemblies with 3, 4,5 or maximum of 6 contact blocks or replacing 1 st or and contact	EKPБ2-EZ101	N/O	Green
		EKPБ2-EZ103	N/O+N/O	Green
		EKPБ2-EZ105	N/O+N/C	Green
		EKPБ2-EZ102	N/C	Red
		EKPБ2-EZ104	N/C+N/C	Red

EKPB2

ETEK®

Pushbutton Switch (φ22mm)

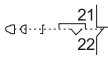
Standard_ IEC60947-5-1

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

Metal Type	Description	Type	Scheme	color
	Key button	EKPБ2-BG21	N/O	
		EKPБ2-BG25	N/O+N/C	
		EKPБ2-BG41	N/O	
		EKPБ2-BG45	N/O+N/C	
		EKPБ2-BG61	N/O	
		EKPБ2-BG65	N/O+N/C	
		EKPБ2-BG03	2NO	
		EKPБ2-BG33	2NO	
		EKPБ2-BG53	2NO	
		EKPБ2-BG73	2NO	
	Double head button	EKPБ2-BL8325	N/O+N/C	 Green  Red
		EKPБ2-BL8425	N/O+N/C	 Green  Red
	Double head button with lamp 6V~380V	EKPБ2-BW8365 (Directness)	N/O+N/C	 Green  Yellow  Red
		EKPБ2-BW8465 (Directness)	N/O+N/O	 Green  Yellow  Red
		EKPБ2-BW8375 (Resistance)	N/O+N/C	 Green  Yellow  Red
		EKPБ2-BW8475 (Resistance)	N/O+N/C	 Green  Yellow  Red
	Mushroom button spring return	φ40 EKPБ2-BC21	N/O	 Black
		φ40 EKPБ2-BC31	N/O	 Green
		φ40 EKPБ2-BC42	N/C	 Red
		φ40 EKPБ2-BC51	N/O	 Yellow
		φ60 EKPБ2-BR21	N/O	 Black
		φ60 EKPБ2-BR31	N/O	 Green
		φ60 EKPБ2-BR42	N/C	 Red
		φ60 EKPБ2-BR52	N/O	 Yellow
	Mushroom rotation auto-reset emergency button	φ30 EKPБ2-BS442	N/C	 Red
		φ40 EKPБ2-BS542	N/C	 Red
		φ60 EKPБ2-BS642	N/C	 Red

Metal Type	Description	Type	Scheme	color
	Push and pull type emergency button	φ40 EKPБ2-BT42	N/C	Red
		φ40 EKPБ2-BT845	N/O+N/C	Red
	Mushroom rotation auto-reset emergency button with key	φ40 EKPБ2-BS142	N/C	Red
		φ40 EKPБ2-BS8445	N/O+N/C	Red
	Indicator light 6V~380V	Directness EKPБ2-BV61		White
		Directness EKPБ2-BV63		Green
		Directness EKPБ2-BV64		Red
		Directness EKPБ2-BV65		Yellow
		Directness EKPБ2-BV66		Blue
		Resistance EKPБ2-BV71		White
		Resistance EKPБ2-BV73		Green
		Resistance EKPБ2-BV74		Red
	Flush button with lamp Directness 6V~380V	EKPБ2-BW3161	N/O	White
		EKPБ2-BW3361	N/O	Green
		EKPБ2-BW3462	N/C	Red
		EKPБ2-BW3561	N/O	Yellow
		EKPБ2-BW3661	N/O	Blue
		EKPБ2-BW3365	N/O+N/C	Green
		EKPБ2-BW3465	N/O+N/C	Red
	2-Position Knob lamp 6V~380V	EKPБ2-BK2365	N/O+N/C	Green
		EKPБ2-BK2465	N/O+N/C	Red
	3-Position Knob lamp 6V~380V	EKPБ2-BK3365	N/O+N/C	Green
		EKPБ2-BK3465	N/O+N/C	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	N/O	● Green
		EKPБ2-BZ103	N/O+N/O	● Green
		EKPБ2-BZ105	N/O+N/C	● Green
		EKPБ2-BZ102	N/C	● Red
		EKPБ2-BZ104	N/C+N/C	● 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	N/C	● 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	N/O	● Green

Plastic Type	Description	Type	Scheme	Marking on legend	Marking push button
	1 green flush pushbutton spring return	EKCB-B101H29	N/O	Start	●
		EKCB-B102		—	ⓘ
		EKCB-B103		—	●
		EKCB-B101		—	●
	1 red protecting pushbutton spring return marked	EKCB-B112	N/C 	—	⓪
	1 Selector switch 2-positions stay put Standard black handle	EKCB-B132H29	N/O	Start Stop	⊕
		EKCB-B134H29	N/O	⊖	⊕
	1 red mushroom head button, 40mm, latching Turn to release	EKCB-J174	N/C	—	⓪
		EKCB-J174H29		Emergency Stop	⓪
	1 red mushroom head button, 40mm, latching Turn to release cover with lock	EKCB-P174	N/C	— Emergency Stop	⓪ ⓪
	1 red mushroom head button, 40mm, latching Key release (Key n445) IP40/65	EKCB-J184	N/C	—	●
		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	N/O 	Stop Start	 
		EKCB-B213	+	—	 
		EKCB-B215	N/C 	—	 
	2 spring return pushbutton 1 flush white (black arrow) 1 flush black (white arrow)	EKCB-B222	N/O 	—	 
		EKCB-B223	N/C 	—	 
	2 spring return push button 2 flush green 1 flush red	EKCB-B361H29	N/O 	Start	
			+	—	—
			N/C 	Stop	
	1 red pilot light, Directly supply ≤130★ Bulb not supplied+ 2 spring return pushbuttons 1 flush green 1 flush red	EKCB-B363	LED 	—	 
		+	—	—	
		EKCB-B363H29	N/C 	Start Stop	 
	3 spring return pushbutton 1 flush white (black arrow) 1 flush red 1 flush black (white arrow)	EKCB-B324	N/O 	—	  
		+	—	—	—
	3 spring return pushbutton 1 flush white (black arrow) 1 flush red 1 flush black (white arrow)	EKCB-B334	N/C 	—	
		+	—	—	—
	2 spring return pushbutton + 1 Mushroom button	EKCB-B339	N/O 	—	
		+	—	—	
	2 spring return pushbutton + 1 Mushroom button	EKCB-B393	N/C 	—	
		+	—	—	—
	2 spring return pushbutton + 1 Mushroom button	EKCB-B393	N/O 	—	  
		+	—	—	—



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 a physical control is required.
- We can equip protective box for 20A, 25A, 32A and 63A.

Working conditions

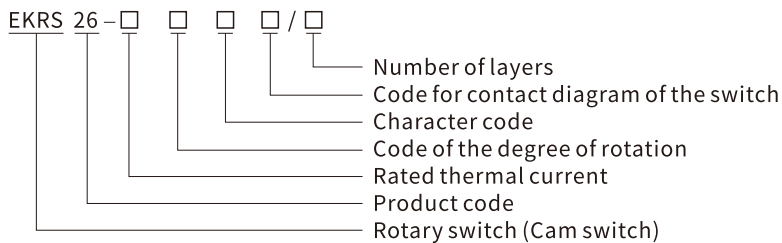
- Ambient temperature do not exceed 40°C, and the average temperature, measured over a period of 24 hours, do not exceed 35°C
- Ambient temperature should not be below -25°C
- Should Not be installed over 2000m above sea level
- The humidity should not exceed 50% when the ambient temperature is 40°C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

Installation conditions

- A clean environments is required
- Please follow our manual

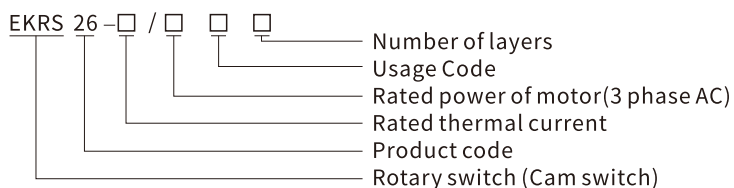
Type Designation

Use as control switches



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



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

EKRS 26-□ / □

Number of poles: 2 poles(2), 3 poles(3), and 4 poles(4)

Rated working current

Product code

Rotary switch (Cam switch)

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

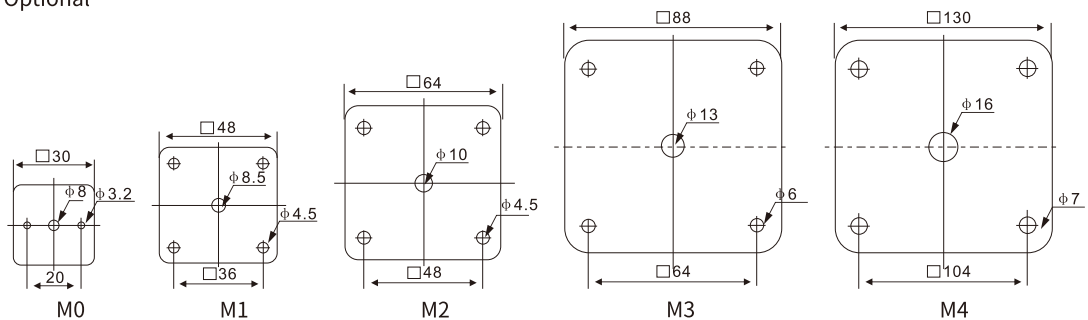
Operation angle	Character code	Position of handle			
		30° Rotation	45° Rotation	60° Rotation	90° Rotation
Spring return	A	0° ← 30°	0° ← 45°	0° ← 60°	0° ← 90°
	B	30° → 0° ← 30°	45° → 0° ← 45°	60° → 0° ← 60°	90° → 0° ← 90°
	X	60° → 30° → 0° ← 30° ← 60°	90° → 45° → 0° ← 45° ← 90°		
	Y	90° → 60° → 30° → 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



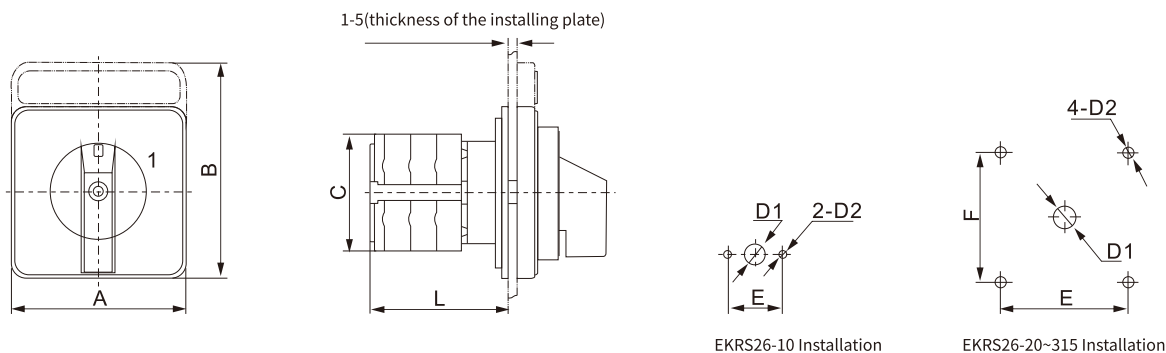
Description	Escutcheon plate						Type of handle										Rotating angle				Maximum Number of Layers		
	M0	M1	M1B	M2	M2B	M3	R	R2	F	I	R	H	I	O	P	K	30°	45°	60°	90°	12	10	8
EKRS26-10	●								●	●							●	●	●	●		●	
EKRS26-20		●	●	●	●		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●		
EKRS26-25		●	●	●	●		●	●	●	●	●	●	●	●	●	●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



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
EKRS26-20	M1 square	48	48	43	22+9.6n	36	36	φ8.5	φ4.5
	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
	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	EKRS26-63	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.

Customized Programme form(CPF)

Due to the flexibility selection of EKRS series contact ratings and number of contacts etc, their combination number is almost limitless, to ensure that a right switch is chosen for the application, so -we prepare the following Customized programme Form for our customers order special switches.

Only EKRS26 series.

[illegible]

1. The type of switch

2. Rated Thermal Current.
For example: 20A
(See page 40)

3. Rotary angle.
For example: 60°
(See page 37)
 $30^\circ(3)$; $45^\circ(4)$;
 $60^\circ(6)$; $90^\circ(9)$.

4. Character code.
For example: C
(See page 37)

5. Contact diagram code.
For example: 5391
(see general contact diagram page 43)

6. Plate type.
For example: M1
(See page 42)

7. Handle type.
For example: R
(See page 38)

EKRS26

-20

6

C

01

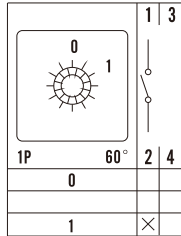
M1

R

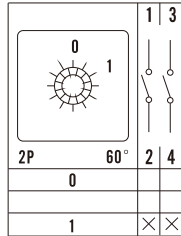
General Panel Diagram



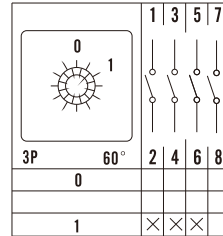
General Panel Diagram



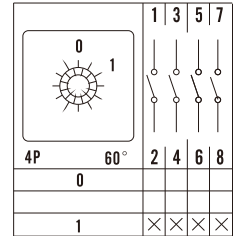
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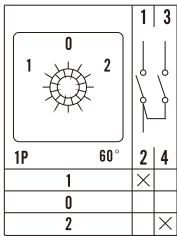
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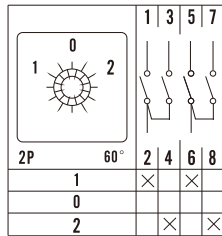
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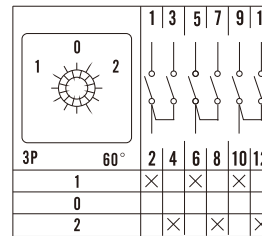
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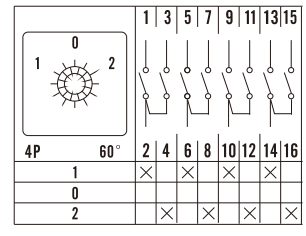
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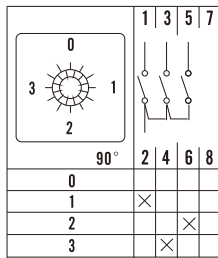
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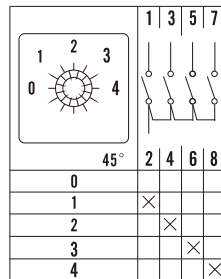
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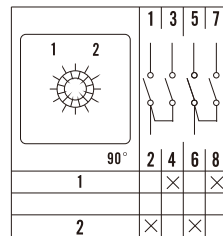
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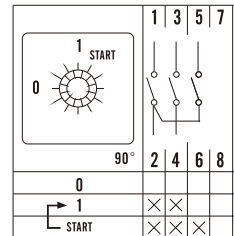
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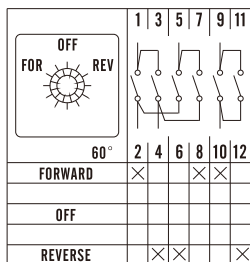
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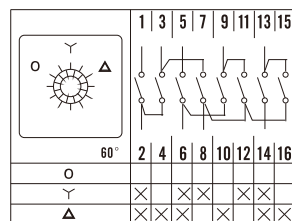
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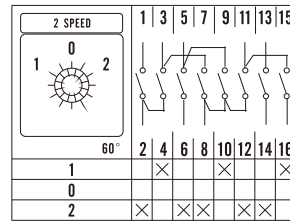
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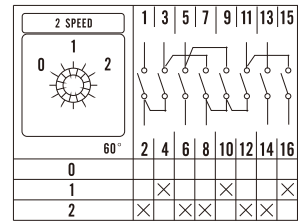
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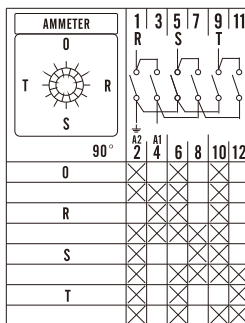
M07



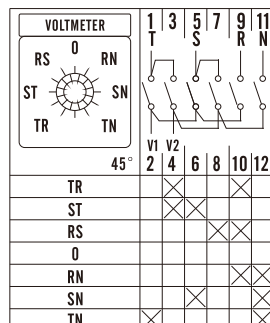
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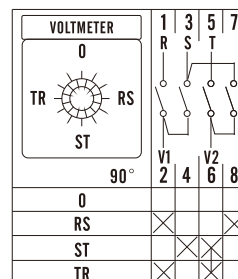
S2



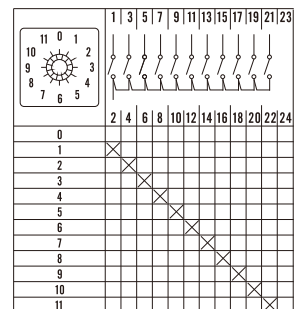
LH3



YH5



YH2



M6886



EKIS30-20, 25, 32



EKIS30-40, 63



EKIS30-80, 100

Introduction

- EKIS30 series Isolation switches applied to circuits of AC 50Hz with working voltage up to 440V and rated working current up to 100A.
- EKIS30 is suitable to control :air-conditioner, water pump and ventilating equipments, and AC Motors with small power.
- EKIS30 series rotary switches have 7 current ratings: 20A,25A,32A,40A,63A,80A,and 100A.
- EKIS30 series has the finger protection terminals, which offers an extra advantage.
- EKIS30 series switches has larger insulation distance, quick disconnecting response . And is a good choice For DC circuits, EKIS30 has additional contact which enable us to install the contact separately
- EKIS series rotary switches comply with :IEC60947-3.

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.

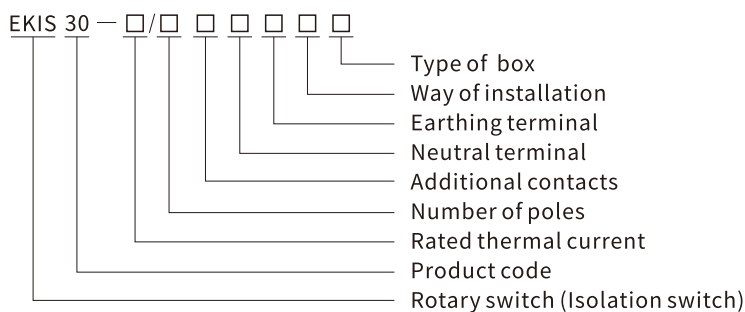
Installation conditions

- A clean environment is required
- Please follow our manual

Classification

- Classified by utilization
 - (1)AC-23A
 - (2)AC-3
- Classified by protective level
 - (1)Without plastic box :IP20
 - (2)With plastic box :IP65

Type Designation



Accessorial code

Number of poles :3P,4P

Additional contacts :0 for additional contacts not inclosed , 1 for with additional contacts

Neutral terminal:0 for neutral terminal not inclosed, 1 for with neutral terminal

Earthing terminal: 0 for earthing terminal not inclosed , 1 for with earthing terminal.

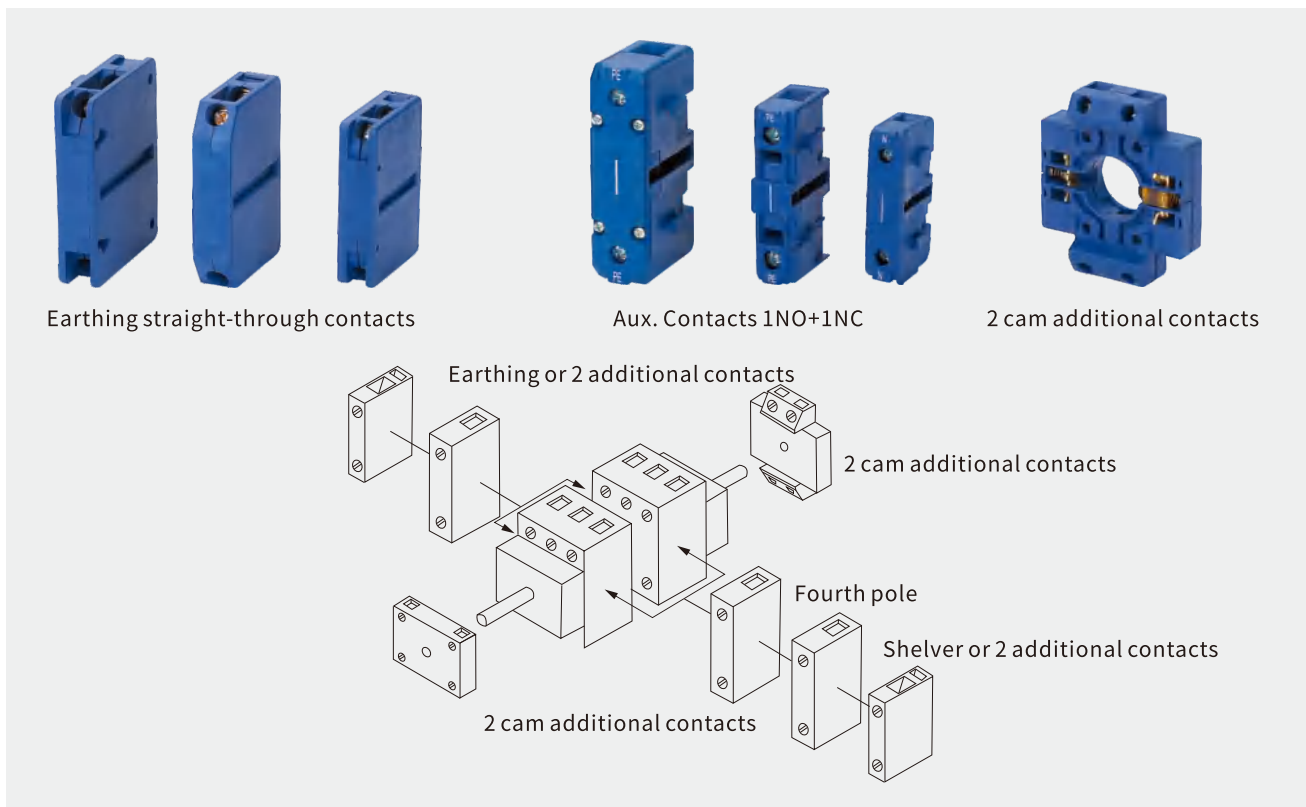
Installation

- 1.Pad-lock escutcheon plate
 - 2.Escutcheon plate
 - 3.Single lock parallel installation
 - 4.Doorlock safety switch with padlock system
 - 5.Single hold installation
- Type of box :0 without protective box , 1 with IP65 Plastic box

Accessories



Auxiliary contact & Optional accessories



Technical parameters

Description	EKIS30-25(20)			EKIS30-32			EKIS30-40			EKIS30-63			EKIS30-80			EKIS30-100		
Rated thermal current Ith A	Ith	A	25(20)			32			40			63			80			100
Rated working voltage Ue V	Ue	V	240	440	240	440	240	440	240	440	240	440	240	440	240	440	240	440
Rated value Ie/Pe	Ie/Pe																	
AC-21A	A/KW	20/-	20/-	32/-	32/-	40/-	40/-	63/-	63/-	80/-	80/-	100/-	100/-					
AC-22A	A/KW	20/-	20/-	32/-	32/-	40/-	40/-	63/-	63/-	80/-	80/-	100/-	100/-					
AC-23A	A/KW	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					
AC-3	A/KW	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					

- Current type: 50Hz AC
- Number of main contact: ON and OFF
- Frequency :8 hours per day, 30 times per hour
- Mechanism Life:10000 times/ AC-23, 6000 times/AC-3,2000 times for additional contact

Order Procedurer

When you order our EKIS30 series, We need your data as following

1. Rated working current, for example :EKIS30-20;
2. Accessorial code , please write it orderly
- (1) Number of poles , for example:3P;
- (2) Do you need additional contacts: 0 not inclosed, 1 inclosed
- (3) Do you need neutral terminal: 0 not inclosed, 1 inclosed;
- (4) Do you need earthing terminal: 0 not inclosed ,1 inclosed;
- (5) Way of installation:
 - 1.Escutcheon plate with pad-lock
 - 2.Escutcheon plate
 - 3.Single lock parallel installation
 - 4.Doorlock safety switch with padlock system
 5. Single hole installation
- (6) Type of box: 0 not inclosed, 1 inclosed.
 3. Other accessorial code, please write it orderly
- (1) Type of Escutcheon plate: 1 Escutcheon plate;
 - 2 Denote $\phi 22.5$ hole;
 - 3 Denote $\phi 25$ hole;
 - 4 Denote $\phi 30.5$ hole.
- (2) Do you need Escutcheon plate with airproof: 0 Not inclosed it , 1 inclosed it
- (3) Colour of bottom plate: 1 Denote silver color; 2 Denote yellow; 3 Male it against your color
- (4) Character letter: 1 denote letter; 2 Chinese letter ; 3 Special sign

For Example

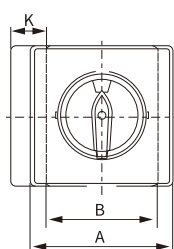
If you order 40A/3P with additional contacts and earthing terminal and Escutcheon plate without neutral terminal and plastic box. You must write: EKIS30-40/310120

If you want to order 32A/3 with Doorlock safety switch, You must write: EKIS30-32/300040.

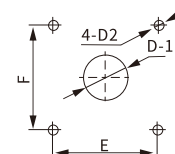
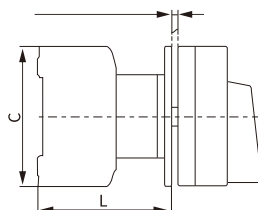
If you want to order 40A/3 with adding contacts, earthing terminal, Escutcheon plate, plate with airproof , Yellow, Chinese letter, K handle; without neutral terminal and plastic box. You must write: EKIS30-40/310120.1123.

Dimensions and installation

Panel installation



1-4 mm (thickness of the installing plate)

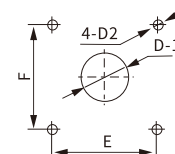
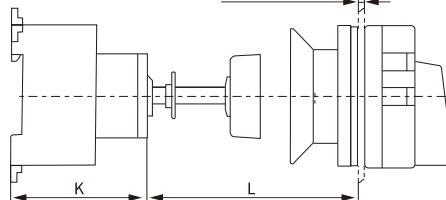


Description	Dimensions(mm)					Installation(mm)			
	A	B	C	K	L	E	F	D1	D2
EKIS30-20	Φ64	42	54	13.5	61	48	48	Φ10	Φ4.2
EKIS30-25	Φ64	42	54	13.5	61	48	48	Φ10	Φ4.2
EKIS30-32	Φ64	42	54	13.5	61	48	48	Φ10	Φ4.2
EKIS30-40	Φ64	50	64	16	67	48	48	Φ10	Φ4.2
EKIS30-63	Φ64	50	64	16	67	48	48	Φ10	Φ4.2
EKIS30-80	Φ64	70	80	22.5	82	48	48	Φ10	Φ4.2
EKIS30-100	Φ64	70	80	22.5	82	48	48	Φ10	Φ4.2

Installation of doorlock safety switch



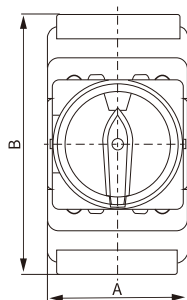
1-5 mm (thickness of the installing plate)



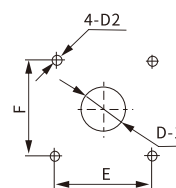
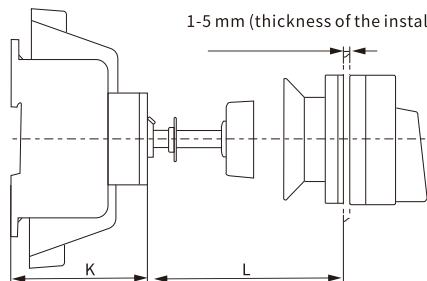
Description	Dimensions(mm)			Installation(mm)			
	K	L min	L max	E	F	D1	D2
EKIS30-20	50	32	150	48	48	Φ22	Φ4.2
EKIS30-25	50	32	150	48	48	Φ22	Φ4.2
EKIS30-32	50	32	150	48	48	Φ22	Φ4.2
EKIS30-40	61	32	150	48	48	Φ22	Φ4.2
EKIS30-63	61	32	150	48	48	Φ22	Φ4.2
EKIS30-80	68	32	150	48	48	Φ22	Φ4.2
EKIS30-100	68	32	150	48	48	Φ22	Φ4.2

Re: Product can be installed in 35 mm Din-rail

Protective cover



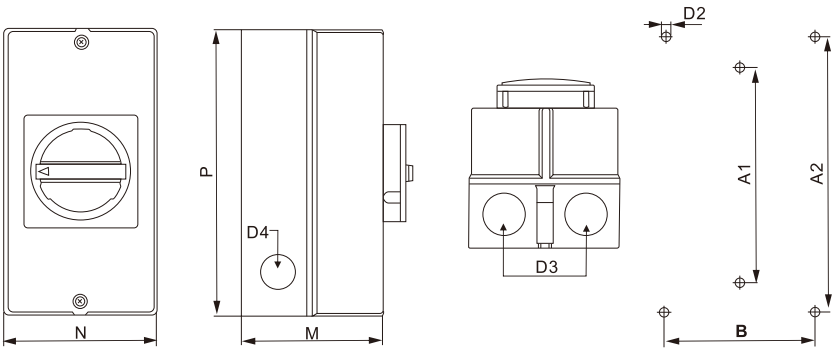
1-5 mm (thickness of the installing plate)



Description	Dimensions(mm)					Installation(mm)			
	A	B	K	L min	L max	E	F	D1	D2
EKIS30-80	70	133	68	32	150	48	48	Φ22	Φ4.2
EKIS30-100	70	133	68	32	150	48	48	Φ22	Φ4.2



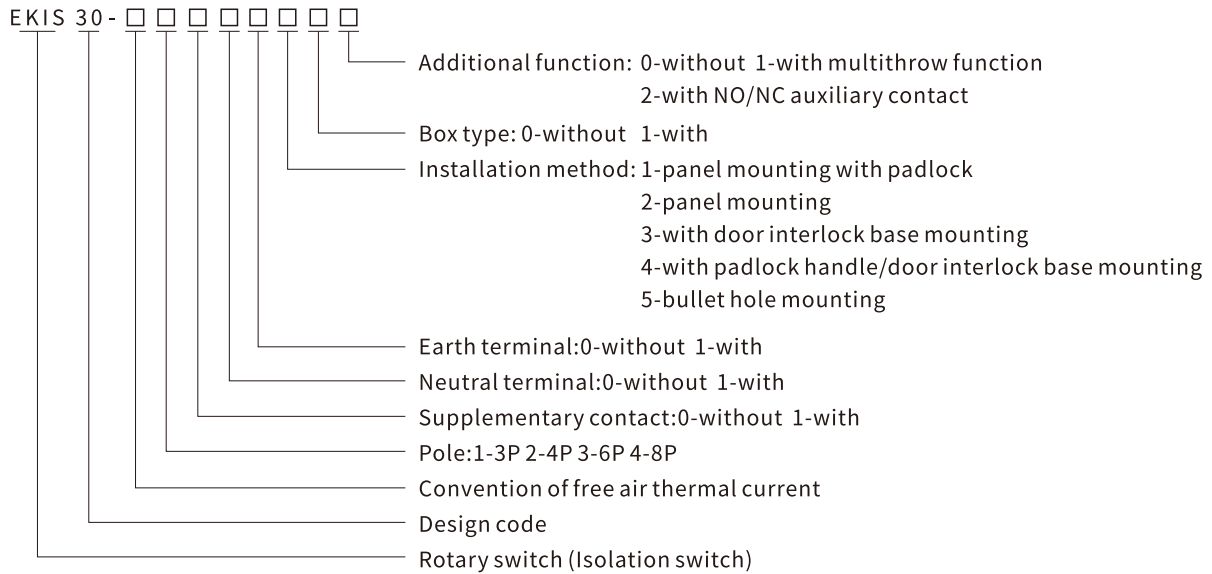
Plastic box (IP65)



Description	Dimensions(mm)					Installation(mm)			
	D3	D4	M	N	P	A1	A2	B	D2
EKIS30-20	φ23	φ19	85	83	160	150	--	--	φ4.2
EKIS30-25	φ23	φ19	85	83	160	150	--	--	φ4.2
EKIS30-32	φ23	φ19	85	83	160	150	--	--	φ4.2
EKIS30-40	φ29	φ23	100	95	190	178	--	--	φ4.2
EKIS30-63	φ29	φ23	100	95	190	178	--	--	φ4.2
EKIS30-80	φ37.5	φ23	144	105	250	--	229	124	φ6.5
EKIS30-100	φ37.5	φ23	144	105	250	--	229	124	φ6.5

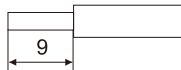
PV DC TYPE

Designation

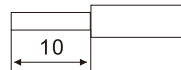


Stripping length

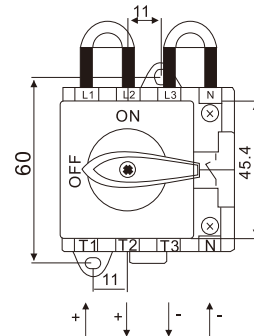
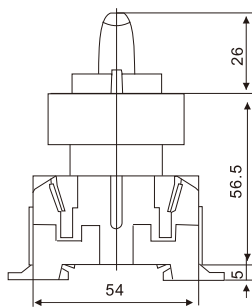
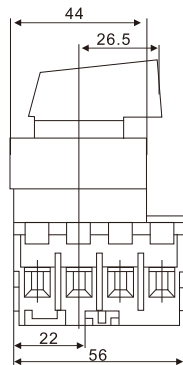
EKIS30-20
EKIS30-32



EKIS30-40



4pole DC



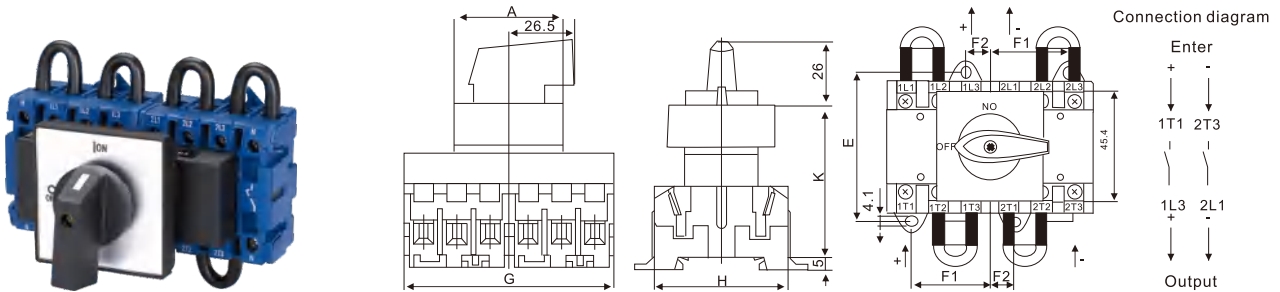
Connection diagram



Description	Working current	Working voltage(DC)	MAX PV load voltage(DC)	Insulation voltage	Connection wire diameter(mm)
EKIS30-20	16A	450V	520V	690V	φ2.5
EKIS30-32	25A	450V	520V	690V	φ4
EKIS30-40	32A	450V	520V	690V	φ4.5
EKIS30-20	12A	500V	575V	690V	φ2.5
EKIS30-32	20A	500V	575V	690V	φ4

PV DC TYPE

6pole DC

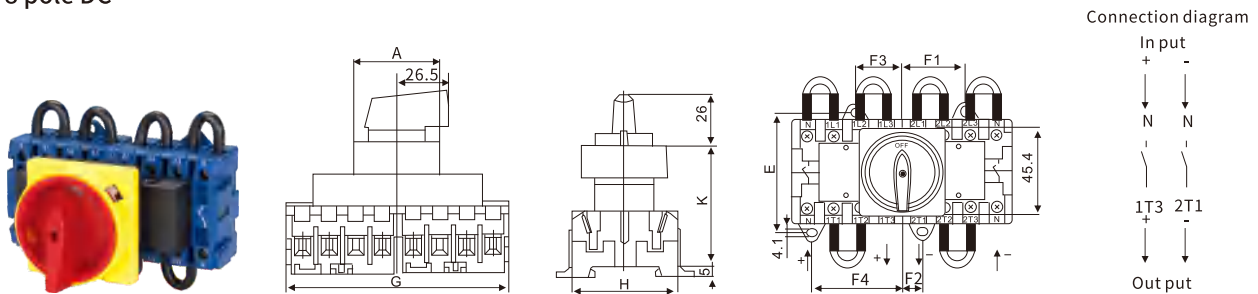


Description	A	E	F1	F2	G	H	K
EKIS30-20/32	44	60	32	10	84	54	64
EKIS30-40	105.4	70	37.5	12.5	100	64	62.5

Description	Working current	Working voltage(DC)	MAX PV load voltage(DC)	Insulation voltage	Connection wire diameter(mm)
EKIS30-20	16A	650V	750V	1000V	φ2.5
EKIS30-32	32A	500V	575V	1000V	φ4
EKIS30-40	32A	650V	750V	1000V	φ4.5
EKIS30-20	12A	800V	920V	1000V	φ2.5
EKIS30-32	25A	650V	750V	1000V	φ4

Use category: DC-22A

8 pole DC



Description	A	E	F1	F2	F3	F4	G	H	K
EKIS30-20/32	44	60	32	10	24	46	111	54	64
EKIS30-40	105.4	70	37.5	12.5	28.5	53.5	132	64	62.5

Description	Working current	Working voltage(DC)	MAX PV load voltage(DC)	Insulation voltage	Connection wire diameter(mm)
EKIS30-20	16A	800V	920V	1000V	φ2.5
EKIS30-32	32A	800V	920V	1000V	φ4
EKIS30-40	32A	800V	920V	1000V	φ4.5

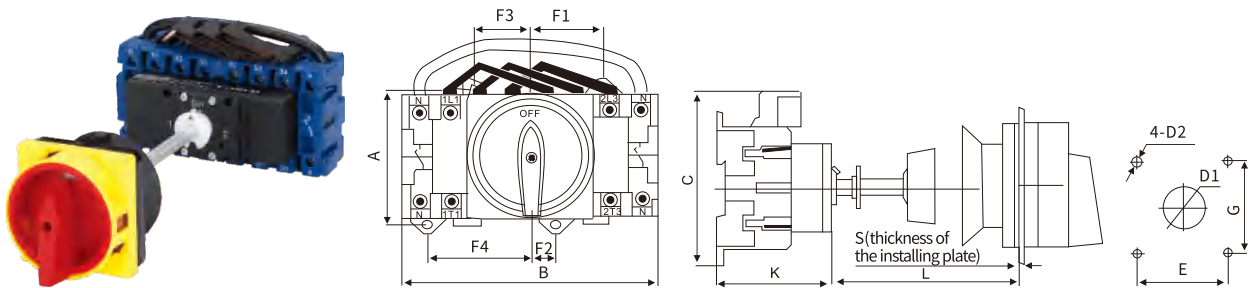
Use category: DC-22A

EKIS30

Isolation Switch ----- Standard_ IEC60947-3

PV DC TYPE

8 pole DC



Description	Dimensions(mm)										Installation(mm)			
	A	B	C	K	F1	F2	F3	F4	L	S	E	G	D1	D2
EKIS30-20	60	111	78	50.5	32	10	24	46	32~150	1~5	48	48	22	4.5
EKIS30-25	60	111	78	50.5	32	10	24	46	32~150	1~5	48	48	22	4.5
EKIS30-32	60	111	78	50.5	32	10	24	46	32~150	1~5	48	48	22	4.5
EKIS30-40	70	132	90	61	37.5	12.5	28.5	53.5	32~150	1~5	48	48	22	4.5
EKIS30-63	70	132	90	61	37.5	12.5	28.5	53.5	32~150	1~5	48	48	22	4.5

Description	Working current	Working voltage(DC)	MAX PV load voltage(DC)	Insulation voltage	Connection wire diameter(mm)
EKIS30-20	16A	800V	920V	1000V	φ2.5
EKIS30-32	32A	800V	920V	1000V	φ4
EKIS30-40	32A	800V	920V	1000V	φ4.5

Use category: DC-22A

Notes

[illegible]

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