

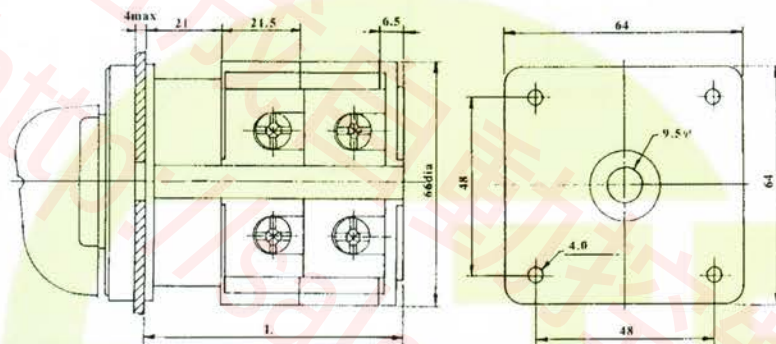


Cam Switch & Changeover Switch



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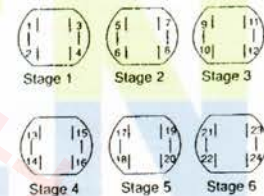
AK-30、AK-60安裝圖面
Dimensions Mounting for AK-30 and AK-60 Switches



層次 Layer	1	2	3	4	5	6
長度(mm) Length	49	70.5	92	113.5	135	156.5



connecting diagram



特性 Specification	AK-30	AK-40	AK-60
阻絕及低感電流 660V Resistive or Low Inductive Loads	32A	40A	63A
阻絕電流切換 IEC/ VDE/ BS Switching of Resistive Loads	25A	32A	40A
交互阻絕及低感電流切換 660V Switching of Combine Resistive or Low Inductive Loads	32A	40A	63A
控制器材接點切換 220V/ 380V/ 440V Switching of Control Devices Contactors	14A 6A	16A 7A	
VDE0660 耐溫電流 660V Thermal Current VDE0660	40A	63A	80A

			ECS	AK-30	AK-40	AK-60			ECS	AK-30	AK-40	AK-60
			ELS						ELS			
			EMS						EMS			
Motor rating	Confirms to IEC/VDE/BS											
AC3 DOL Starting	3Phase	220V	3Kw	5.5Kw	7.5Kw	11Kw	3Phase	120v	1.5HP	2HP	5HP	7.5HP
		380 / 440V	5.5Kw	5.5KW	15Kw	18.5Kw		240v	3HP	5HP	10HP	15HP
		500V	5.5Kw	5.5Kw	15Kw	18.5Kw		480V	5Hp	10Hp	20Hp	25Hp
		600V	5.5Kw	5.5Kw	15Kw	18.5Kw	1Phase	120V	0.5Hp	1Hp	3Hp	3Hp
								240V	1Hp	2Hp	7.5Hp	7.5Hp
								120V	0.5Hp	1Hp	2Hp	3Hp
AC4 DOL Starting reversing, inching	3Phase	220V	1.5Kw	2.7Kw	3.7Kw	5.5Kw	3Phase	120V	0.5Hp	1Hp	2Hp	3Hp
		380 / 440V	3Kw	5.5Kw	6Kw	7.5Kw		240V	1Hp	2Hp	3Hp	5Hp
								480V	2Hp	5Hp	10Hp	15Hp



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型號說明 Model Designation :

AK-30	CODE NO.	AKS-30	CODE NO.
普通式 Normal Type		護蓋式 Case-protected Type	
AK-30(32A)	CAMSW 32A	AKS-30(32A)	PCAMSW 32A
AK-60(63A)	CAMSW 63A	AKS-60(63A)	PCAMSW 63A

32A On-Off 開關 90°

32A On-Off Switches 90°

Code No	Function	Stage	Escutch Plate	Connecting Diagram
A301	1 Pole	1		
A301A	2 Pole	1		
A302	3 Pole	2		
A302A	4 Pole	2		
A303	5 Pole	3		
A303A	6 Pole	3		
A304	7 Pole	4		
A304A	8 Pole	4		

32A 無 Off 切換開關 90°

32A Change Over Switches without Off 90°

Code No	Function	Stage	Escutch Plate	Connecting Diagram
A307	1 Pole	1		
A308	2 Pole	2		
A309	3 Pole	3		
A310	4 Pole	4		

32A 無 Off 電子獨立接點切換開關 90°

32A Change Over Switches without Off with Electrically Isolated Contacts 90°

Code No	Function	Stage	Escutch Plate	Connecting Diagram
A313	1 Pole	1		
A314	2 Pole	2		
A315	3 Pole	3		
A316	4 Pole	4		

32A 中央 Off 切換開關 90°

32A Change Over Switches with Center Off 90°

Code No	Function	Stage	Escutch Plate	Connecting Diagram
A317	1 Pole	1		
A318	2 Pole	2		
A319	3 Pole	3		
A320	4 Pole	4		
A321	1 Pole	1		
A322	2 Pole	2		
A323	3 Pole	3		
A324	4 Pole	4		



Cam Switch & Changeover Switch

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63A On-Off 開關 90°

63A On-Off Switches 90°

Code No	Function	Stage	Escutch Plate	Connecting Diagram
A601	2 Pole	1		
A601A	2 Pole	1		
A602	4 Pole	2		
A602A	4 Pole	2		
A603	6 Pole	3		
A603A	6 Pole	3		
A604	8 Pole	4		
A604A	8 Pole	4		

63A 無 Off 切換開關 90°

63A Change Over Switches without Off 90°

A607	1 Pole	1		
A608	2 Pole	2		
A609	3 Pole	3		
A610	4 Pole	4		

63A 無 Off 電子獨立接點切換開關 90°

63A Change Over Switches without Off with Electrically Isolated Contacts 90°

A613	1 Pole	1		
A614	2 Pole	2		
A615	3 Pole	3		
A616	4 Pole	4		

63A 中央 Off 切換開關 90°

63A Change Over Switches with Center Off 90°

A617	1 Pole	1		
A618	2 Pole	2		
A619	3 Pole	3		
A620	4 Pole	4		
A621	1 Pole	1		
A622	2 Pole	2		
A623	3 Pole	3		
A624	4 Pole	4		



Cam Switch & Changeover Switch

切換開關

有 Off 電壓計開關

Voltmeter Switches with Off

Code No.	Function	Stage	Escutch plate	Connecting diagram	In / Out Put
VS 33	3 Phase 3 wire	2			4 V1 R V2 S 5 T 7
VS 34	3 Phase 4 wire	3			B V2 B V1 Y N R

安培計開關

Ammeter Switches

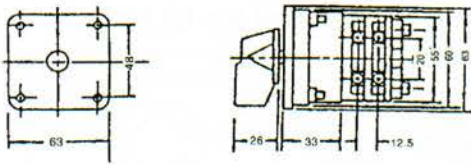
Code No.	Function	Stage	Escutch plate	Connecting diagram	In / Out Put
AS 33	3 Phase 3 wire 2 current transformer	2			4 R A1 T 8 5 A2 7
AS 34	3 Phase 4 wire 3 current transformer	3			A2 B R Y A1 N



Cam Switch & Changeover Switch

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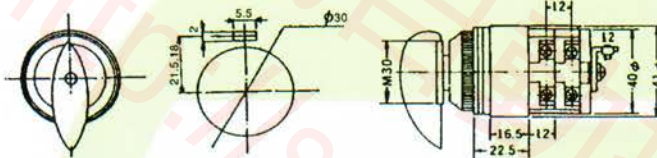
ECS 開關安裝圖面 Dimensions Mounting for ECS Switches
電木座 Phenol Base



層次 Layer	1	2	3	4	5	6	7	8
長度 (mm) Length	38	50	62	74	86	98	110	122



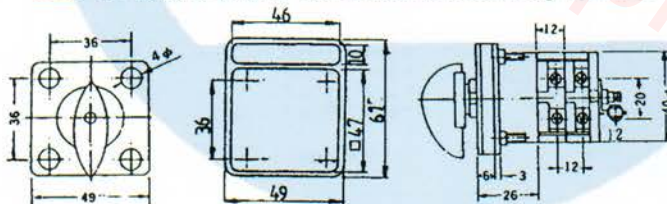
ELS-30 開關安裝圖面 Dimensions Mounting for ELS-30 Switches



層次 Layer	1	2	3	4	5	6	7	8
長度 (mm) Length	35	47	59	71	83	95	107	119



ELS-48 開關安裝圖面 Dimensions Mounting for ELS-48 Switches

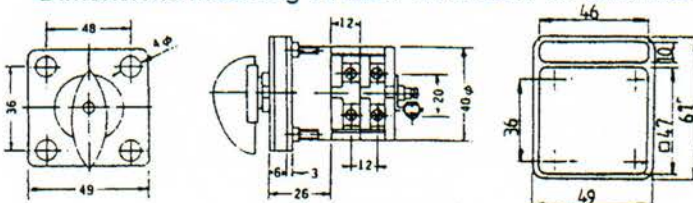


層次 Layer	1	2	3	4	5	6	7	8
長度 (mm) Length	35	47	59	71	83	95	107	119



ELS-60、EMS-60 開關安裝圖面

Dimensions Mounting for ELS-60 & EMS-60 Switches



層次 Layer	1	2	3	4	5	6	7	8
長度 (mm) Length	35	47	59	71	83	95	107	119



• ELS-60

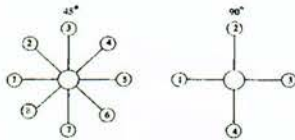
• EMS-60



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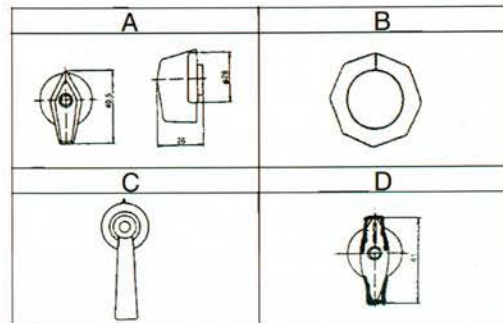
切換角度 Operational Positions



特性 Specification

接點容量 Contact Capacity	AC250V/ 10A	
接觸電阻 Contact Resistance	50mΩ 以下 (初期值) Below 50mΩ (Initial)	
絕緣電阻 Insulation Resistance	DC500V 之下, 100mΩ 以上 Over 100mΩ under DC500V	
耐電壓 Dielectric Strength	AC2500V 一分鐘 AC2500V for 1 minute	
壽命 Service Life	機械 Mechanical	100,000 次 100,000 times
	電氣 Electric	100,000 次 100,000 times

把手類型代碼 Model No. Of Handles



90°無 Off 切換開關

Change Over Switches without Off 90°Switching

Code No.	Function	Stages	Escutch Plate	Connecting Diagram
C001	1 pole	1		
C002	2 pole	2		
C003	3 pole	3		
C004	4 pole	4		
C005	5 pole	5		
C006	6 pole	6		
C007	7 pole	7		
C008	8 pole	8		

90°On/ Off 切換開關

On/ Off Switches with 90°Switching

Code No.	Function	Stages	Escutch Plate	Connecting Diagram
C025	1 pole	1		
C026	2 pole	1		
C027	3 pole	2		
C028	4 pole	2		
C029	5 pole	3		
C030	6 pole	3		
C031	7 pole	4		
C032	8 pole	4		

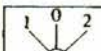
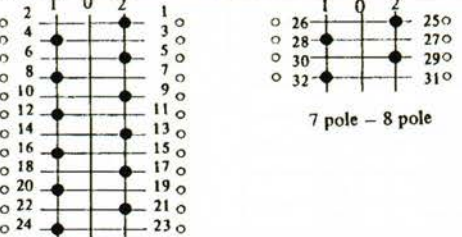
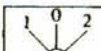


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45°有 Off 切換開關

Change Over Switches with Off 45°Switching

Code No.	Function	Stages	Escutch plate	Connecting diagram
C037	1 pole	1		 1 pole – 6 pole 7 pole – 8 pole
C038	2 pole	2		
C039	3 pole	3		
C040	4 pole	4		
C041	5 pole	5		
C042	6 pole	6		
C043	7 pole	7		
C044	8 pole	8		

中央自動復歸切換開關

Change Over Switches with Spring Return to Center

C049	1 pole	1			
C050	2 pole	2			
C051	3 pole	3			

90°有 Off 切換開關

Change Over Switches with Off 90°Switching

C045	1 pole	1		
C046	2 pole	2		
C047	3 pole	3		
C048	4 pole	4		

自動復歸切換開關

Change Over Switches with Spring Return

C052	1 pole	1			
C053	2 pole	1			
C054	3 pole	2			
C055	4 pole	2			

45°On/ Off 切換開關

On/ Off Switches with 45°Switching

C056	1 pole	1			
C057	2 pole	1			
C058	3 pole	2			
C059	4 pole	2			
C060	5 pole	3			
C061	6 pole	3			
C062	7 pole	4			
C063	8 pole	4			

45°中央 Off 切換開關

Change Over Switches with Center Off 45°Switching

C068	1 pole	1			
C069	2 pole	2			
C070	3 pole	3			
C071	4 pole	4			
C072	5 pole	5			
C073	6 pole	6			
C074	7 pole	7			
C075	8 pole	8			

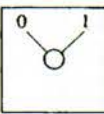
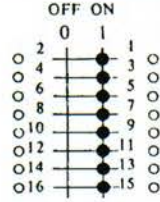


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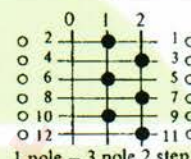
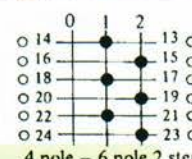
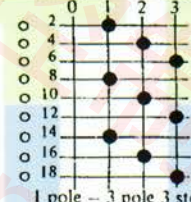
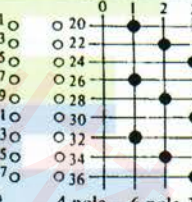
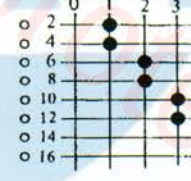
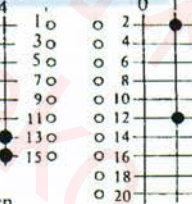
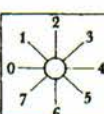
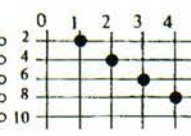
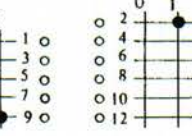
90° On/ Off 切換開關

On/ Off Switches with 90° Switching

Code No.	Function	Escutch Plate	Stages	Connecting diagram
C076	1 pole	 P23	1	OFF ON  1 pole - 8 pole
C077	2 pole		1	
C078	3 pole		2	
C079	4 pole		2	
C080	5 pole		3	
C081	6 pole		3	
C082	7 pole		4	
C083	8 pole		4	

有 Off 多段式切換開關

Multi Step Switches with Off

C087	1 pole 2 step	 P25	1	 1 pole - 3 pole 2 step	 4 pole - 6 pole 2 step
C088	2 pole 2 step		2		
C089	3 pole 2 step		3		
C090	4 pole 2 step		4		
C091	5 pole 2 step		5		
C092	6 pole 2 step		6		
C093	1 pole 3 step	 P26	2	 1 pole - 3 pole 3 step	 4 pole - 6 pole 3 step
C094	2 pole 3 step		3		
C095	3 pole 3 step		5		
C096	4 pole 3 step		6		
C097	5 pole 3 step		8		
C098	1 pole 4 step		2	 1 pole - 2 pole 4 step	 1 pole - 2 pole 5 step
C099	2 pole 4 step		4		
C100	3 pole 4 step		6		
C101	4 pole 4 step		8		
C102	1 pole 5 step	 P30	3	 1 pole 6 step	 1 pole 7 step
C103	2 pole 5 step		5		
C104	3 pole 5 step		8		
C105	1 pole 6 step		4		
C106	2 pole 6 step		7		
C107	3 pole 6 step		11		
C108	1 pole 7 step		4		
C109	2 pole 7 step		8		
C110	1 pole 8 step		5		
C111	1 pole 9 step		5		
C112	1 pole 10 step		6		
C113	1 pole 11 step		6		



Cam Switch & Changeover Switch

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無 Off 多段式切換開關

Multi Step Switches without Off

Code No	Function	Stage	Escutch plate	Connecting diagram
C114	1 pole 3 step	2	P33	
C115	2 pole 3 step	3		
C116	3 pole 3 step	5		
C117	4 pole 3 step	6		
C118	5 pole 3 step	8		
C119	6 pole 3 step	9		
C120	1 pole 4 step	2	P34	
C121	2 pole 4 step	4		
C122	3 pole 4 step	6		
C123	4 pole 5 step	8		
C124	5 pole 4 step	10		
C125	6 pole 4 step	12		
C126	1 pole 5 step	3	P36	
C127	2 pole 5 step	5		
C128	3 pole 5 step	8		
C129	4 pole 5 step	10		
C130	1 pole 6 step	3	P37	
C131	2 pole 6 step	6		
C132	3 pole 6 step	9		
C133	4 pole 6 step	12		
C134	1 pole 7 step	4	P40	
C135	2 pole 7 step	7		
C136	3 pole 7 step	11		
C137	1 pole 8 step	4	P37	
C138	2 pole 8 step	8		
C139	3 pole 8 step	12		

C144	1 pole 2 step	1	P40		
C145	2 pole 2 step	2			
C146	3 pole 2 step	3			
C147	4 pole 2 step	4			
C148	5 pole 2 step	5			



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有 Off 多段式切換開關

Multi Step Switches with Off

Code No.	Function.	Stage	Eschsch plate	connecting diagram
C149	1 pole 3 step	2		
C150	2 pole 3 step	3		
C151	3 pole 3 step	5		
C152	4 pole 3 step	6		
C153	5 pole 3 step	8		
C154	1 pole 4 step	2		
C155	2 pole 4 step	4		
C156	3 pole 4 step	6		
C157	4 Pole 4 Step	8		
C158	1 pole 5 step	3		
C159	2 pole 5 step	5		
C160	3 pole 5 step	8		
C161	1 pole 6 step	4		
C162	2 pole 6 step	7		
C163	3 pole 6 step	11		
C164	1 pole 7 step	4		
C165	2 pole 7 step	8		
C166	1 pole 8 step	5		

安培計開關

Ammeter Switches

C178	3 phase 4 wire 3 current transformer	4			
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馬達逆轉開關

Motor Reversing Switches

C170	2 pole	3			
C171	3 pole	4			

馬達控制開關

Motor Control Switches

C173	4 pole - 8 pole Speed control and Reversing Control	7			
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