Cam Switch

LW39-10 series
LW39-16 series
LW39-25 series
LW39-63 series

Introduction

APT, established in 1993, has been specialized in the manufacturing of low voltage products such as pushbuttons and indicator and is one of the leading low voltage control device manufacturers in China. Through years of promotion and application, APT Series products have been widely serving dozens of industrial fields in China, including power, machinery, steel, metallurgy, petrochemical, transportation, water treatment, food, packaging, textile, harbor and construction etc. They have been successively chosen and used by the national key projects such as Qinshan Nuclear Power Plant, the Three Gorges Project, the Qinghai-Tibet Railway locomotives, Shenzhou V Spacecraft, Shanghai Pudong International Airport, National Stadium ("Bird's Nest") .....

In August, 2008, according to the asset purchase agreement between Shanghai APT Co., Ltd. (hereinafter referred to as "APT") and Siemens Electrical Apparatus Ltd. Suzhou (hereinafter referred to as "Siemens"), both parties have completed the business transaction. APT brand and related products will be under the operation of "Siemens" Group. As a new member of Siemens Group, APT will succeed and promote the business operation philosophy of the former "APT", i.e. customer orientation. With the quality management and R&D resources of Siemens, APT will focus on the manufacture of pushbuttons, indicator components and other important low voltage products such as the signal lighting, cam switch, relay, current transformer and limit switch etc. Furthermore, Siemens will develop its international business operation experience to strengthen the management and business development of APT and better serve Chinese and global market demands through its advanced technology.

We will do better!

Switches

Changeover LW39 Series

Contents

Technical Data

Working conditions: the Altitude≤2000m
Ambient temperature -25℃ -+55℃
Relative Air Humidity≤90%
Installation Class: III
Pollution Class: III

Standards

GB14048.5
IEC60947-5-1

Electrical Technical Data:

Model		LW39-10	LW39-16A (B, C)	LW39-25	LW39-63
Rated Insulation Voltage Ui GB/T14048.1	V	440	690	690	690
Rated Thermal Current Ith GB/T14048.1	A	10	16	25	63
Rated Impulse Withstand Voltage 1min Uimp GB/T14048.1	V	2500	2500	2500	2500
AC Rated operational Current Ie					
AC-21 switching of Resistive Loads GB14048.3	A	10	16	25	63
AC-15 switching of control devices contactors valves ect Loads					
COSØ=0.4 24V	A	10	16	25	28
48V	A	5	8	22	25
110V	A	4	5	18	22
220V	A	2	3	12	16
380V	A	1.2	1.8	8	8
AC-3 squirrel-Cage Asynchronous Motor					
Direct-on-line starting, start-delta starting GB/T14048.3 Appendix A					
3-phase 3-pole 380V	KW	1.5	3	5.5	15
AC-4 Cage Asynchronous Motor					
Startup, braking, reverse, inching					
GB14048.3 Appendix A					
3-phase 3-pole 380V	KW	0.37	1.2	4	6
DC Rated operational Current Ie					
DC-21 switching of Resistive Loads G814048.3					
Number of Series Contacts					
1 2 3 4					
24 48 70 95	A	10	16	25	
48 60 95 110	A	6	12	22	
Voltage V 110 220 300	A	0.56	1	5	
220 440	A	0.24	0.4	2.5	
440	A	0.1	0.27	1.25	
DC-13 switching of control devices contactors valves ect Loads					
T=300ms G814048.5					
Number of Series Contacts					
1 2 3 4					
24 48 70 95	A	8	12	20	
48 60 95 110	A	1.2	2	8	
Voltage V 110 220 300	A	0.25	0.4	2.5	
220 440	A	0.12	0.2	1.25	
440	A		0.1	0.5	
AC electrical endurance	10,000 times	20	20	20	10
DC electrical endurance	10,000 times	10	10	10	
Mechanical endurance	10,000 times	30	30	30	30

LW39-16 Application

LW39-16 is widely implicated in the electrical control-panel-indicate and the measurement of mechanical and electrical control. The Ith is 16A ,and can widely replace the domestic traditional models such as LW2 and LW5. There are three series A, B and C and can satisfy different customer request.

LW39-16A Series

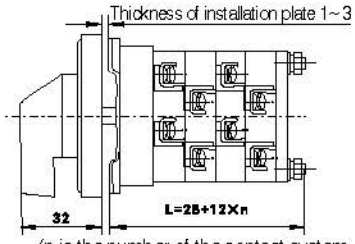
Good appearance and convenient operation, safety and reliable with external wiring for easy use.

- Ith 16A
- Operating angle: 30°, 45°, 90°
- The maximum number of contact poles: 12

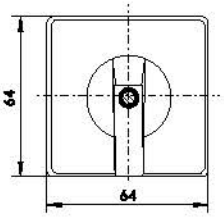
Note: if the working condition is under 100mA @ 24V, please remark in the purchase order. The contactor will be gold-plating.

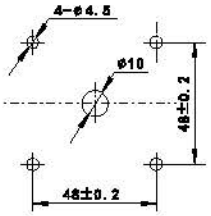
Normal Type LW39-16A

Positioning Angle: 30°, 45°, 90° Maximum Number poles 12 Handles Type: all



(n is the number of the contact system polees n=1~12)
Add one pole for spring return



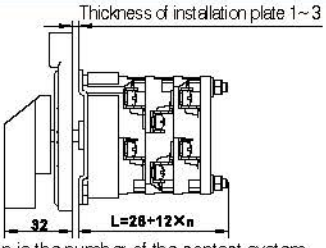


The installation hole size

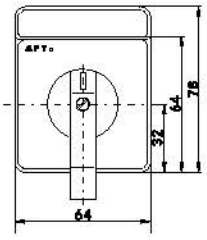
Ordered Model: LW39 -16A P- □ - □ / □□□ Refer to page 15 for details

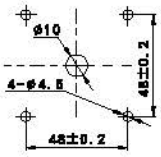
Label Type LW39-16A P

Positioning Angle: 30°, 45°, 90° Maximum Number poles 12 Handles Type: all



n is the number of the contact system polees, with a maximum of 12
Add one pole for spring return



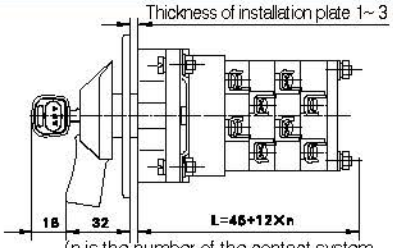


The installation hole size

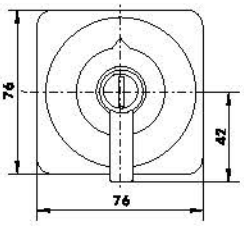
Ordered Model: LW39 -16A P- □ - □ / □□□ Refer to page 15 for details

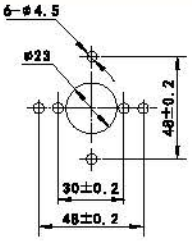
Handle with Key-lock Type LW39-16A YS

Positioning Angle: 45°, 90 ° Maximum Number poles 12 Handles are not selectable



(n is the number of the contact system polees n=1~12)
Add one pole for spring return





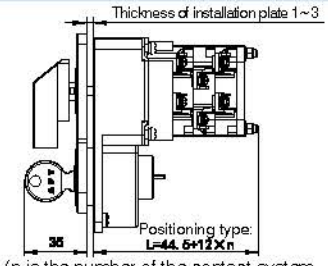
The installation hole size

Ordered Model: LW39 - 16AA YS- □ - □ / □□ Refer to page 15 for details

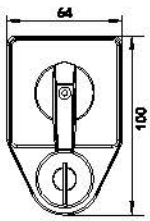
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

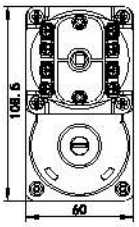
Panel with Key-lock Type LW39-16A YM

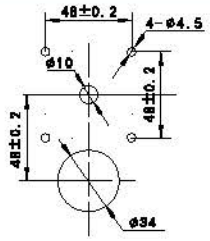
Positioning Angle: 45°, 90 ° Maximum Number poles 12 Handles Type: A, B, C, D



(n is the number of the contact system polees n=1~12)
Add one pole for spring return







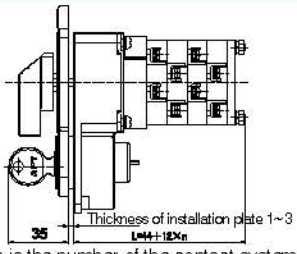
The installation hole size

Ordered Model: LW39 - 16A YM- □ - □ / □□□ Refer to page 15 for details

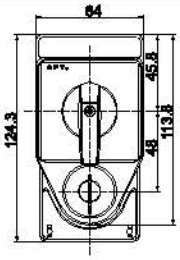
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

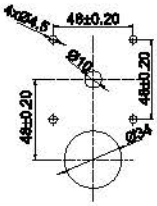
Panel with Key-lock with label Type LW39-16A PYM

Positioning Angle:45°, 90° Maximum Number poles 12 Handles Type: A, B, C, D



(n is the number of the contact system polees n=1~12)
Add one pole for spring return





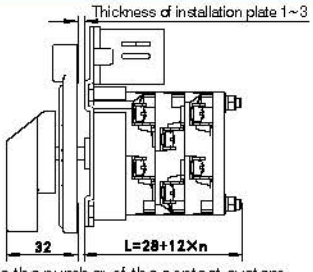
The installation hole size

Ordered Model: LW39 - 16A PYM - □ - □ / □□□ Refer to page 15 for details

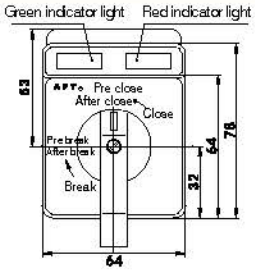
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

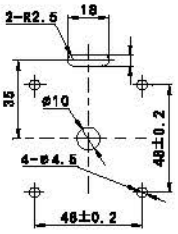
Panel with illumination Type LW39-16A DM

Positioning Angle:45 ° , 90 ° Maximum Number poles Handles Type: all



n is the number of the contact system polees, with a maximum of 12
Add one pole for spring return



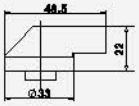
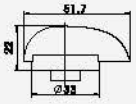
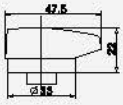
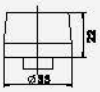


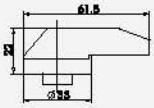
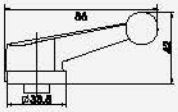
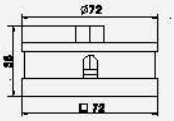
The installation hole size

Ordered Model: LW39 - 16A DM - □ - □ / □□□ Refer to page 15 for details

Note: the standard illumination module has 3 common negative-pole wiring terminals: X1(+), XO(-), X2(+). if there is any special wiring requirement, please show us.

Handles For LW39-16A (defaulted as AK handle if no requirement show us)

Code	Ak	Ar	Bk	Br	Ck	Cr	Dk	Dr
Handle								
Size								

Code	Ek	Er	Fk	Fr	Gk	Gr
Handle						
Size						

LW39-16B Series

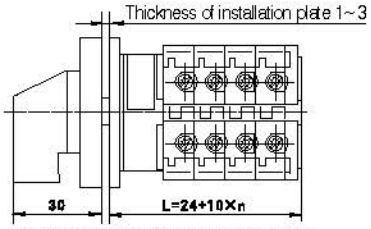
Have tiny visual appearance, look good and fresh with reliable structure. With the international popular built-in wiring,is safety and reliable.

- Ith is 16A, built-in wiring is safety and reliable
- Operation angle: 30°, 45° , 60° , 90°
- The maximum number of contact poles: 12; less than 8 poles is better

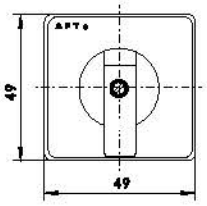
Note: if the working condition is under 100mA @ 24V, please remark in the purchase order. The contactor will be gold-plating.

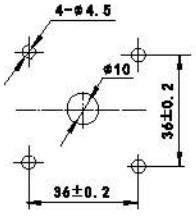
Normal Type LW39-16B

Positioning Angle: 30°, 45° , 60° , 90° Maximum Number poles12, no more than 8 poles is better, Handles Type: all



n is the number of the contact system polees, n=1-12



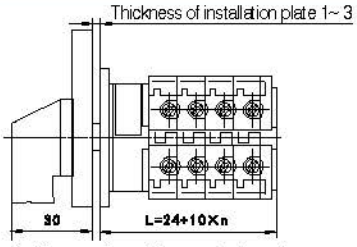


The installation hole size

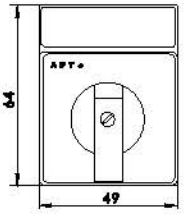
Ordered Model: LW39 - 16B - □ - □ / □□□ Refer to page 15 for details

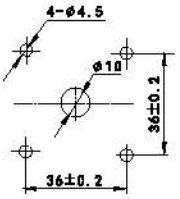
With Label Type LW39-16B P

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum Number poles12 , no more than 8 poles is better, Handles Type: all



n is the number of the contact system polees, with a maximum of 12



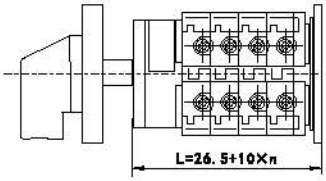


The installation hole size

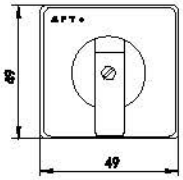
Ordered Model: LW39 - 16B P - □ - □ / □□□ Refer to page 15 for details

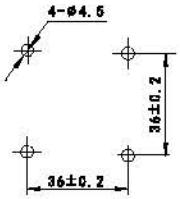
Base–mounted Type: LW39-16B M

Positioning Angle: 30°, 45, 60°, 90 ° Maximum Number poles, no more than 8 poles is better, Handles Type: all



n is the number of the contact system polees, with a maximum of 12



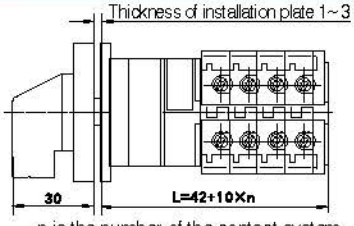


Base installation size (center hole size Ø10)

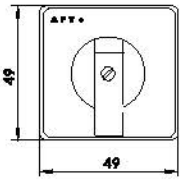
Ordered Model: LW39 - 16B M - □ - □ / □□□ Refer to page 15 for details

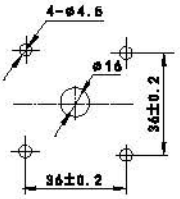
Pull-out spring return Type: LW39-16B ZL

Positioning feature: 9GC or B1 Maximum Number poles 12, no more than 8 poles is better, Handles Type: all



n is the number of the contact system polees, with a maximum of 12





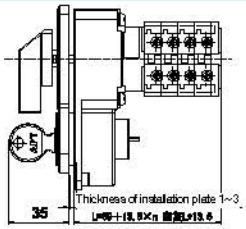
The installation hole size

Ordered Model: LW39 - 16B ZL - □ - □ / □□□ Refer to page 15 for details

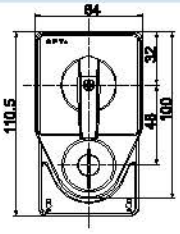
Note: applicable positioning features: -90° ,0° ,90° (Code 9GC); auto-resetting feature: -30° → 0° ← 30° (Code B1)

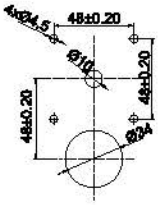
Panel with Key-lock Type LW39-16B YM

Positioning Angle: 45°,90 ° Maximum Number poles 12, no more than 8 poles is better, Handles Type:A,B,D



(n is the number of the contact system polees n=1~12)





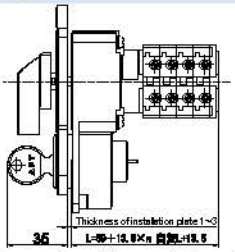
The installation hole size

Ordered Model: LW39 - 16BYM - □ - □ / □□□ Refer to page 15 for details

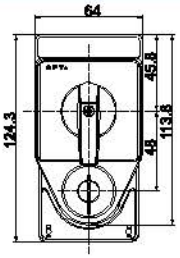
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

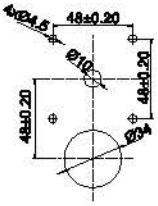
Panel with Key-lock with label Type LW39-16B PYM

Positioning Angle: 45°, 90 ° Maximum Number poles 12, no more than 8 poles is better, Handles Type:A, B, D



(n is the number of the contact system polees n=1~12)



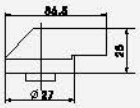
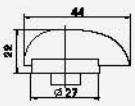
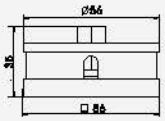


The installation hole size

Ordered Model: LW39 - 16B PYM- □ - □ / □□□ Refer to page 15 for details

Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

Handles for LW39-16B (defaulted as AK handle if no requirement is specified)

Code	Ak	Ar	Bk	Dk	Gk	Gr
Handle						
Size						

LW39-16C Series

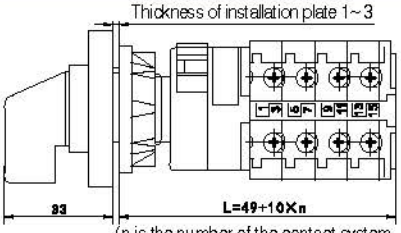
Single hole installation, with the same contact system as Series B. The international popular built-in wiring method is used, is safety and reliable.

- Ith is 16A
- Operation angle: 30°, 45°, 60°, 90°
- The maximum number of the contact poles is 12 and less than 8 poles is better

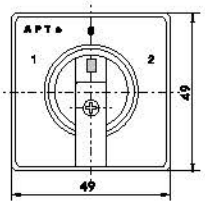
Note: if the working condition is under 100mA @ 24V, please remark in the purchase order. The contactor will be gold-plating.

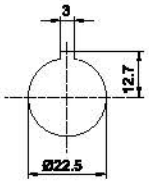
Normal Type: LW39-16C

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum Number poles 12, no more than 8 poles is better, Handles Type: not selectable



(n is the number of the contact system polees n=1~12)



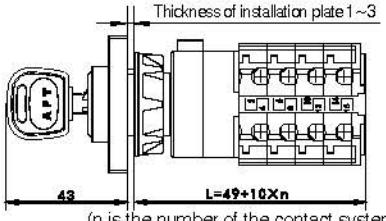


The installation hole size

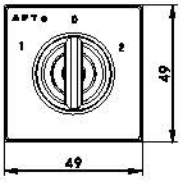
Ordered Model: LW39 - 16C - □ - □ / □□ Refer to page 15 for details

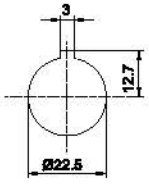
Handle with Key-lock Type LW39-16C YS

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum Number poles, no more than 8 poles is better, without handle



(n is the number of the contact system polees n=1~12)





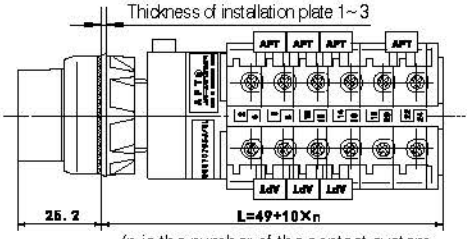
The installation hole size

Ordered Model: LW39 - 16C YS - □ - □ / □□ Refer to page 15 for details

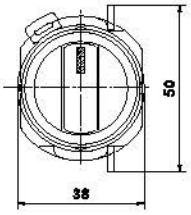
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

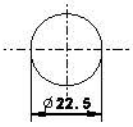
Single-hole Installation without Panel Type LW39-16C U

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum of 12 poles, no more than 8 poles is better Handles: not selectable



(n is the number of the contact system polees n=1~12)

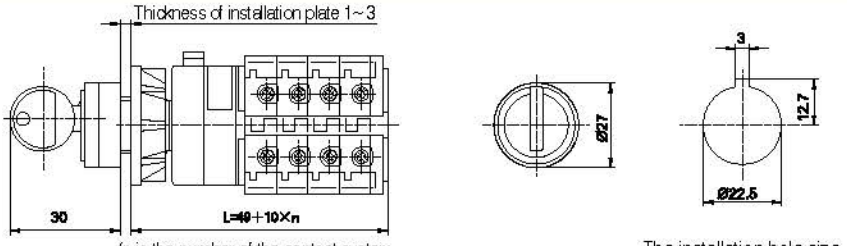




The installation hole size

Ordered Model: LW39 - 16CU- □ - □ / □□ Refer to page 15 for details

Without Panel with Key-lock Type LW39-16CUYS

	Positioning Angle: 30°, 45°, 60°, 90 °
	 The installation hole size

Ordered Model: LW39 - 16CUYS - □ - □ / □□ Refer to page 15 for details

Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

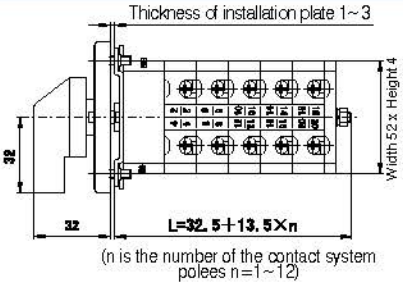
LW39-25 for DC Function

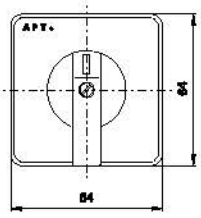
It is the latest product that has been completely independently developed with multiple design patents. LW39-25 is applicable to the application fields with a higher capacity, especially to DC application environment. With The international popular built-in wiring, is safety and reliable. The antifriction-bearing keep the operation gentle and soft, and keep the long mechanical endurance life.

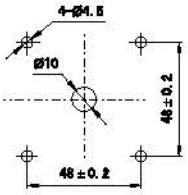
- Ith is 25A, the DC breaking capacity reaches 5A/110V (DC-21)
- Operating angle: 30º, 45º, 90º
- It is extremely rich in the functional features and the maximum number of contact poles is 12
- The gold-plated silver alloy contacts are used, which have greatly guaranteed the contact reliability under low voltage and low current.

Normal Type LW39-25

Positioning Angle: 30°, 45°, 90 ° Maximum Number poles 12 Handles Type: all





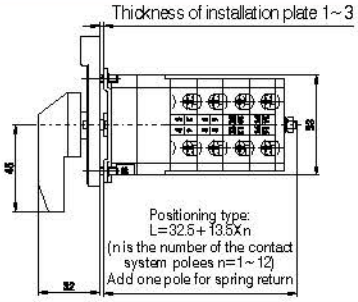


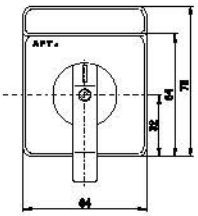
The installation hole size

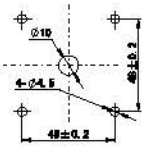
Ordered Model: LW39- 25 - □ - □ / □□□ Refer to page 15 for details

With Label Type LW39-25 P

Positioning Angle: 30°, 45°, 90 ° Maximum Number poles Handles Type: all





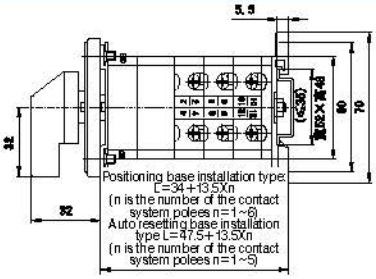


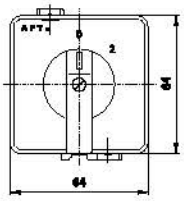
The installation hole size

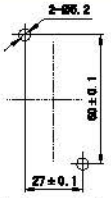
Ordered Model: LW39- 25 P - □ - □ / □□□ Refer to page 15 for details

Base-mounted Type LW39-25 M

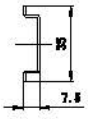
Positioning Angle: 30°, 45°, 90 ° Maximum of 8 Pole Handles Type: all







Installation and hole opening diagram of customer's base

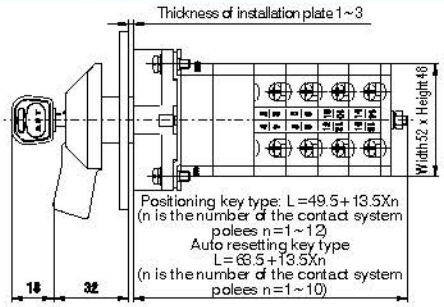


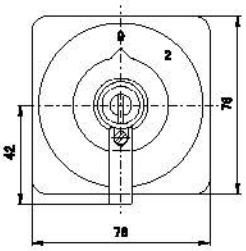
Size of guide rail for installation of customer's base

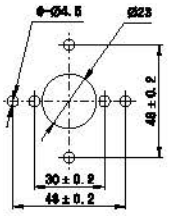
Ordered Model: LW39- 25 M - □ - □ / □□□ Refer to page 15 for details

Handle with Key-lock Type LW39-25 YS

Positioning Angle: 45°, 90 ° Maximum Number poles 12 Handles are not selectable







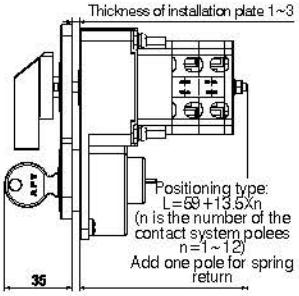
The installation hole size

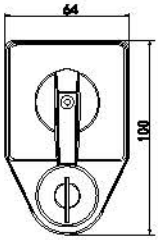
Ordered Model: LW39- 125 YS- □ - □ / □□□ Refer to page 15 for details

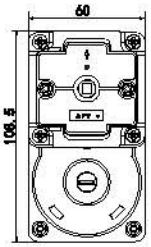
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

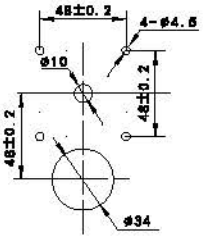
Panel with Key-lock Type LW39-25 YM

Positioning Angle: 45°, 90 ° Maximum Number poles 12 Handles Type: A, B, C, D







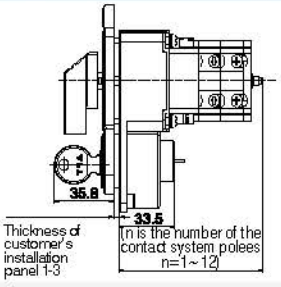


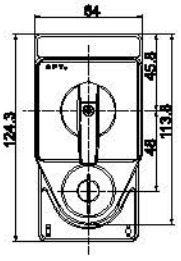
The installation hole size

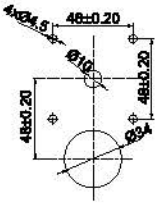
Ordered Model: LW39- 125 YM- □ - □ / □□□ Refer to page 15 for details

Panel with Key-lock with label Type LW39-25 PYM

Positioning Angle: 45°, 90 ° Maximum Number poles 12 Handles Type: A, B, C, D



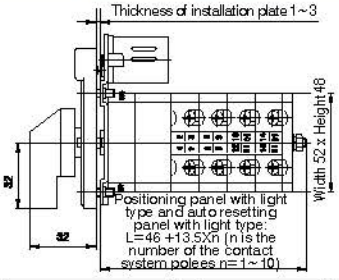


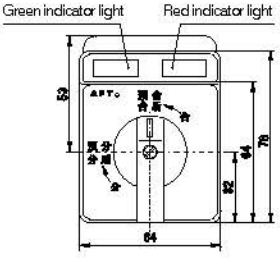


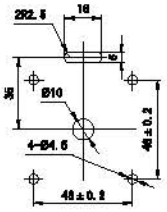
The installation hole size

Panel with illumination Type LW39-25 DM

Positioning Angle: 30°, 45°, 90 ° Maximum of 11 pitches Applicable Handles: all







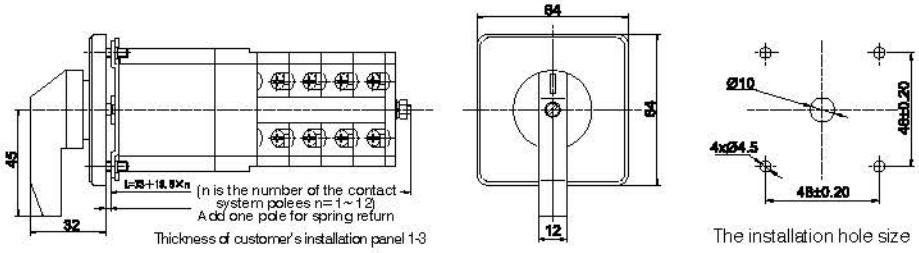
The installation hole size

Ordered Model: LW39- 125 DM- □ - □ / □□□□ Refer to page 15 for details

Note: the standard illumination module has 3 common negative-pole wiring terminals: X1(+), XO(-), X2(+).if there is any special wiring requirement ,please show us .

Pull-out (Push-in) Operation Type LW39-25 LC (TC)

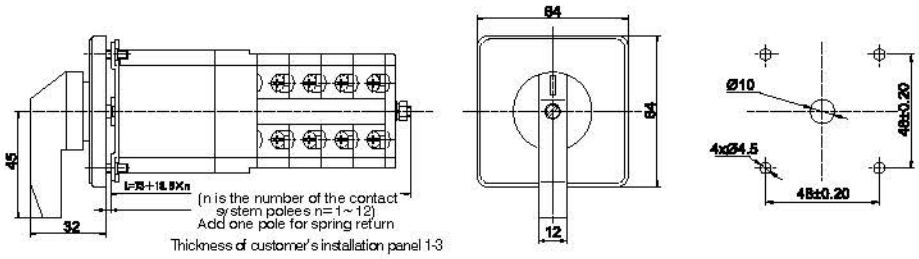
Positioning Angle: 45°, 90 ° Handles Type: E, F



Ordered Model: LW39- 25 LC (TC)- □ - □ / □□□ Refer to page 15 for details

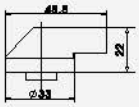
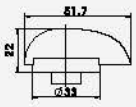
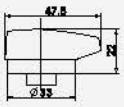
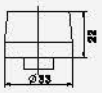
Pull-out (Push-in) spring return Type LW39-25 LF (TF)

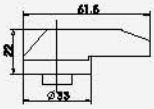
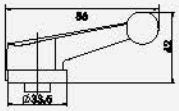
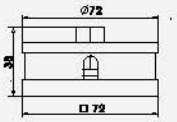
Positioning Angle: 45°, 90 ° Handles Type: E, F



Ordered Model: LW39-25 LF (TF)- □ - □ / □□□ Refer to page 15 for details

Handles for LW39-25 (defaulted as Ak handle if no requirement is specified)

Code	Ak	Ar	Bk	Dk	Gk	Gr
Handle						
Size						

Code	Ek	Er	Fk	Fr	Gk	Gr
Handle						
Size						

Note: For additional functions and models, please refer to Page 15 for details.

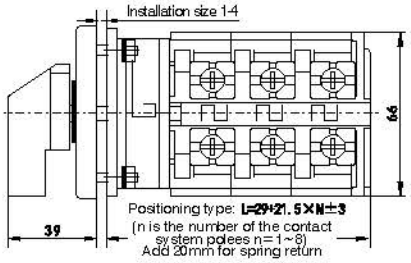
LW39-63 Cam switches with higher Capacity

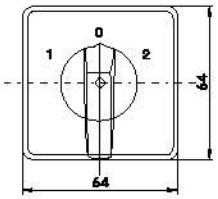
LW39-63 are applicable to the connection, breaking and changeover of the circuits with higher capacity, the startup, acceleration, control and stop of single motor, the changeover of electrical control of the large capacity control circuit, as well as the remote control of power distribution equipment etc. The external wiring method is easy for use.

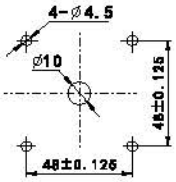
- Ith is 63A
- Operating angle: 30°, 45°, 60°, 90°
- The maximum number of contact poles: 8
- A variety of special product models are provided pertinent to the operation fields of the motors

Normal Type LW39-63

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum of 8 poles Handles Type: all





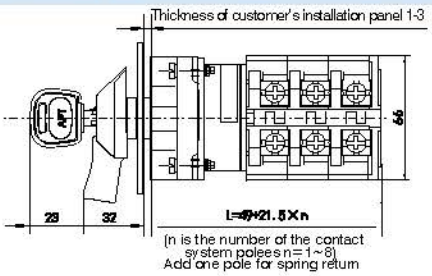


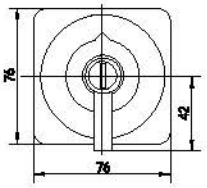
The installation hole size

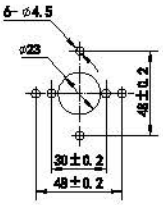
Ordered Model: LW39-63- □ - □ / □□□□ Refer to page 15 for details

Handle with Key-lock Type LW39-63 YS

Positioning Angle: 45°, 90 ° Maximum of 8 poles Handles are not selectable







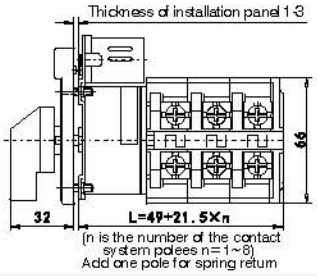
The installation hole size

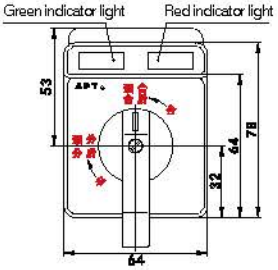
Ordered Model: LW39-63 SY- □ - □ / □□ Refer to page 15 for details

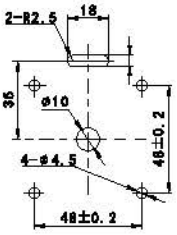
Key Operation: it can be removed at each position and the handle will be locked after the key is taken out. if there is any other requirement, please show us.

Panel with illumination Type LW39-63 DM

Positioning Angle: 30°, 45°, 60°, 90 ° Maximum of 8 poles Handles Type: all





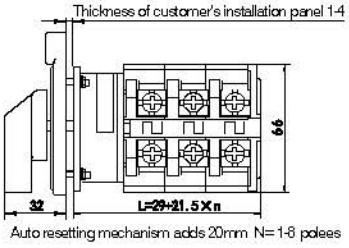
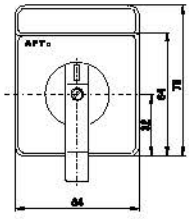
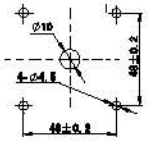


The installation hole size

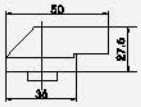
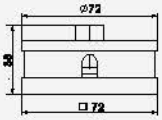
Ordered Model: LW39-63 DM- □ - □ / □□□□ Refer to page 15 for details

Note: the standard illumination module has 3 common negative-pole wiring terminals: X1(+), XO(-), X2(+).if there is any special wiring requirement ,please show us.

With Label Type LW39-63 P

	Positioning Angle: 30°, 45°, 60°, 90 ° Maximum of 8 poles Handles Type: all
	   The installation hole size
Ordered Model: LW39-63 P- □ - □ / □□□ Refer to page 15 for details	

Handles for LW39-63 (defaulted as Ak handle if no requirement is specified)

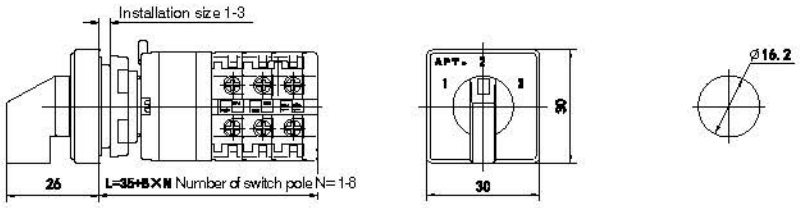
Code	Ak	Gk	Gr
Handle			
Size			

LW39-10 Subminiature Type Cam switches

LW39-10 are widely applicable to the places with quite small installation space. The single-hole installation method that is same to LW39 series pushbuttons is used with the installation hole size as 16mm or 22mm. The international popular built-in wiring method is applied, safety and reliable. The operation head is designed with the sealing component and its protection class is IP64.

- Ith is 10A
- Operating angle: 30°, 45°, 90 °
- The maximum number of contact poles: 8
- The gold-plated silver alloy contact is used, which has greatly guaranteed the contact reliability under low voltage and low current.

Normal Type LW39-10

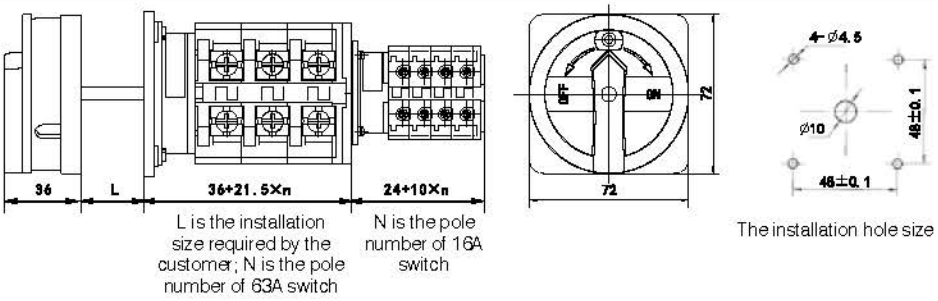
	Positioning Angle: 30°, 45°, 90 ° Maximum of 8 Pole Handles are not selectable
	

Ordered Model: LW39-10 - □ - □ / □□ Refer to page 15 for details

Note: the switch with an angle of 60B instead of 90B can be made

LW39-63/16

The special series with main and auxiliary switches are applicable to the places that shall connect and disconnect the circuits in the power distribution circuits or mechanical and electrical control circuits, and deliver the signals to the control circuits. The main switches have applied the features of LW39-63 series cam switches and auxiliary switches have applied the features of LW39-16B series cam switches. They can be operated integrally with the same axle.



Ordered Model: LW39-63/16

Please provide the contact chart and confirm the model by our Service Department

Model

Please provide the specific model when the user order LW39 series cam switches. There are three ways to confirm the model:

(1) Select from the models of the ordinary cam switches (please reference to P21—26). Please show us if there is any further requirement;

(2) Please tell us the model according to the description of model;

(3) Fill the blank contactor diagram (p28) and we will help you confirm the model.

LW39-10 □ - □ - □ / □ □

- Escutcheon Plates Code (see p18)
- Contactor Poles number
- Contactor Code (reference to p17)
- Code of Position (see p16~17)
- Functional model, to be selected according to the picture

LW39-16 □ □ - □ - □ / □ □ □ □

- Escutcheon Plates Code (see p18)
- Code of Handle
- Voltage Code of illuminate
  "23" means; "26" means 110V; "28" means DC220V; "31" means AC220V.
- Contactor Poles number
- Contactor Code (refer to p17)
- Code of Position (see p16~17)
- Functional model, to be selected according to the picture

LW39-25 □ - □ - □ / □ □ □ □

- Escutcheon Plates Code (see p18)
- Code of Handle
- Voltage Code of illuminate
  "23" means; "26" means 110V; "28" means DC220V; "31" means AC220V.
- Contactor Poles number
- Contactor Code (refer to p17)
- Code of Position (see p16~17)
- Functional model, to be selected according to the picture

LW39-63 □ - □ - □ / □ □ □ □

- Escutcheon Plates Code (see p18)
- Code of Handle
- Voltage Code of illuminate
  "23" means; "26" means 110V; "28" means DC220V; "31" means AC220V.
- Contactor Poles number
- Contactor Code (refer to p17)
- Code of Position (see p16~17)
- Functional model, to be selected according to the picture

- LW39-63/16, Please provide the contactor diagram and we will help you to confirm the model.
- Description of illuminate color code and voltage code:
- "g" means green and "r" means red
- "23" means AC/DC24V, "26" means AC/DC110V, "28" means DC220V, and "31" means AC220V.

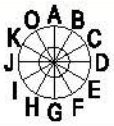
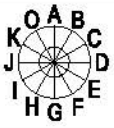
Note:

1. The color code has sequence requirement when the cam switch has illuminate modular, with the panel face the front and write the color code from left to right.
2. For example: "-gr23", shows that the left is green light and the right is red light. "-rg"23" shows that the left is red light and the right is green light.
3. Wiring terminal of illuminate modular:
4. The defaulted wiring terminal is common negative poles: X1(-), XO(-), X2(+). Please show us if there is any special wiring requirement.

Code of Position

The code of position indicates the gear features of the cam switches, including maintained type and spring-return type.

(1) Maintained type: it does not have spring return function. LW39 series cam switches have 30°, 45°, 60° and 90° position. Please attention the position of each models and fill the position codes when you ordered.

Position	Applicable Model	Position circle	Example
30°	LW39-10、LW39-16、LW39-25、LW39-63		"3KC" indicates 30° position, starting from K and ending at C with clockwise. It has 5 positions K, O, A, B, C.
45°	LW39-10、LW39-16、LW39-25、LW39-63		"4OB" indicates 45° position , starting from O and ending at B with clockwise. It has 3 positions O, A, B.
60°	LW39-16B、LW39-16C、LW39-63		"6KE" indicates 60° position, starting from K and ending at E clockwise. It has 4 positions - K, A, C. E
90°	LW39-10、LW39-16、LW39-25、LW39-63		"9GC" indicates 90° position, starting from G and ending at C with clockwise. It has 3 positions - G, A, C.

Position Code Description: □ □ □

- Ending position
- Starting position
- "3" indicates 30°, "4" indicates 45°, "6" indicates 60° and "9" indicates 90°

Note: if the switch is operated without limited in a circle, the ending and starting position will be the same letter, for example: "3JJ" indicates 30° position, starting from -90° with 12 positions without limited.

(2) Spring return Type: one or more position for spring-return type have spring-return function. LW39 series cam switches have various spring-return function types for option.
The following table show the commonly used spring-return functions codes.
Please attention the application models.

Spring-return Position code	Operation Position (Angle)	LW39-10	LW39-16A	LW39-16B LW39-16C	LW39-25	LW39-163
A1	0° ←30°	Y*				
A2	0° ←45°		Y	Y	Y	Y
B1	-30° →0° ←30°	Y*				
B2	-45° →0° ←45°		Y	Y	Y	Y
B3	-60° →-30° →0° ←30° ←60°			Y*		
B4	-90° -45° 0° 45° ←90°		Y	Y	Y	Y
B5	-90° -45° 0° ←45°		Y	Y	Y	Y
B6	-90° →-60° →-30° →0° ←30° ←60° ←90°			Y		
B7	-90° →-45° 0° 45° 90° 135°			Y		
BA	-90° →-45° →0° ←45° ←90°		Y	Y	Y	
BC	-45° →0° 0° ←45°		Y		Y	
BD	-30° →0° 0° ←30°			Y*		
Z1	-135° →-90° 0° ←45°		Y	Y	Y	Y
ZA	-90° →-45° 0° 45° ←90°		Y	Y	Y	Y

Code of Positioning Feature	Handle Operation Position (Angle)	LW39-10	LW39-16A	LW39-16B LW39-16C	LW39-25	LW39-163
ZB	-90° →-45° 0° 45°		Y	Y	Y	Y
ZC	-45° 0° 45° ←90°		Y	Y	Y	Y
ZD	-90° 0° ←45°		Y	Y	Y	Y
ZE	0° 45° ←90°		Y	Y	Y	Y
ZF	-45° 0° ←45°		Y	Y	Y	Y
ZG	-45° →0° 45°		Y	Y	Y	Y
ZK	-45° →0° 45° 90°		Y	Y	Y	Y
W	-120° →-90° 0° ←30°	Y*		Y*		
WA	-90° 0° ←30°	Y*				
WB	-30° →0° 90°	Y*				
WC	0° 90° ←120°	Y*		Y*		
WR	-120° →-90° 0° 90° ←120°	Y*		Y*		
WS	-90° 0° 90° ←120°	Y*		Y*		
WT	-120° →-90° 0° 90°	Y*		Y*		
WU	-90° -30° →0° ←30°			Y*		
WV	-90° 0° ←30° 90°			Y*		
WW	-90° -30° →0° ←30° 90°			Y*		

Precautions: "*", means the number poles of the cam switch is less than 3;
if you have more requirement ,please contact our technical department.

Contactor Codes

The contactor codes can be showed in the model with the following two ways:

1. Inquiry the contactor codes in the 'contactor codes handbook';
2. We can provide you the contactor code according your contactor diagram (P28);

For example:

Requirements: 3 position; the 1st position has 4 contactors closed, the 2nd position has 2 contactors closed and the 3rd position has 4 contactors closed. The contactor codes can be got in the 'contactor codes handbook' as: 424/3.

Junction Code	424/3		
Operation Gear	1	2	3
1-2	×		×
3-4	×		×
5-6	×		×
7-8	×		×
9-10		×	
11-12		×	

If contactor codes can't be found in 'contactor codes handbook' ,you can provide the contactor diagrams to us (fill with "x" letter as the contactor closed on the blank contactor diagram on the P28),and add the "x" letter after the contactor code as the customer requirement.

contactor Code: 424X

Junction Code	424×/3		
Operation Gear	1	2	3
1-2	×		×
3-4	×		
5-6		×	×
7-8	×		×
9-10			×
11-12	×	×	

Note: X in contactor diagram means that the contactor closed.

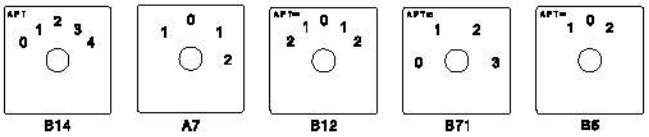
Escutcheon Plates Code

The Escutcheon Plates Code of panel indicate the specific requirements for the prints on the panels of the cam switches. The user can select escutcheon plate code according to "Ordinary escutcheon Codes of Panel", or provide the requirements for customization. If there are no show in the Order Models, we will provide the panels according to the defaulted escutcheon plates code rule.

1. Defaulted Escutcheon Plates Code:

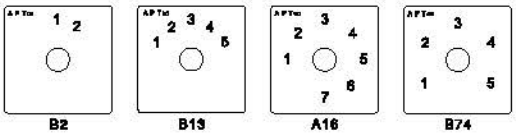
(1) If one position have no contactor closed, this position plate shall be "0" and then the position on both sides shall be show in sequence of Arabic figure as "1", "2", "3"…… For 3 position cam switche, there is not the plate as of 1-0-1, instead of 1-0-2.

For example:



(2) If the position haven't "0", each position will be showed in sequence of Arabic figure as "1", "2", "3"……(clockwise).

For example:

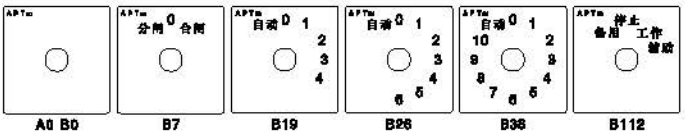


2. Ordinary escutcheon plates:

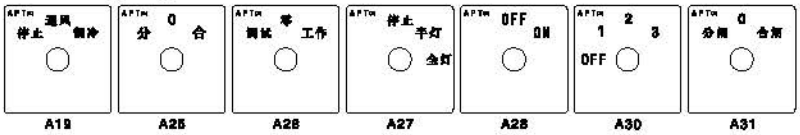
Notes: the codes starting with A are applicable for LW39-10, LW39-16A, LW39-25 and LW39-63

The codes starting with B are applicable for LW39-16B and LW39-16C

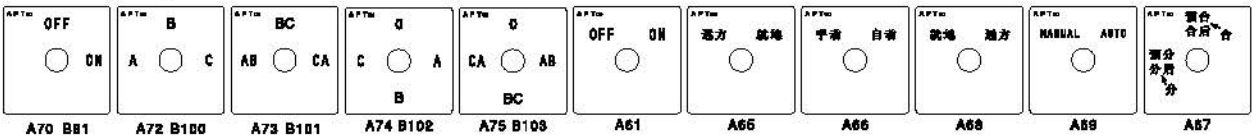
Positioning Angle - 30°



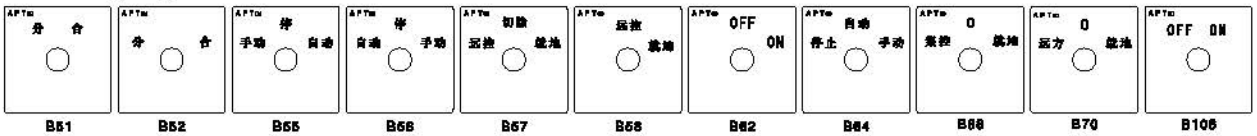
Positioning Angle - 45°

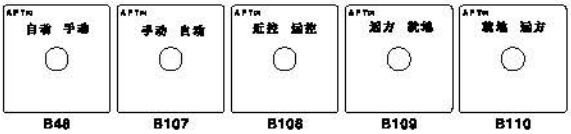


Positioning Angle - 90° and Combined Angles



Positioning Angle - 60°





3. Special Plate, add the letter "P" after the pole code.

Model and Revision Specification

LW39 series cam switches have been very popular used by users in the market. With the continuously increased in these years, the product functions and models have been also updated so that the meanings of the models of the initially designed products cannot satisfy the ordering demands of the customers. Therefore, after the careful study, it has been decided that the meanings of the original product models shall be modified in this revision.

The main modifications are as follows:

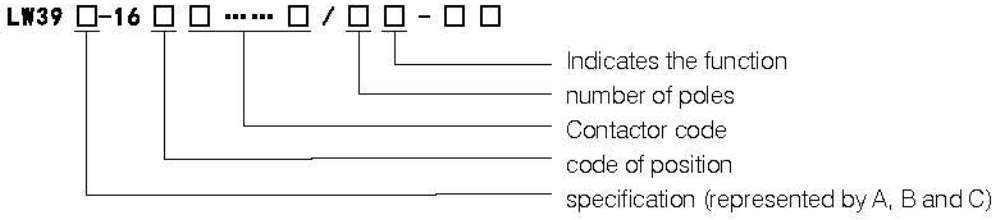
(1) The two codes "A, B" and "Function Representation" in the old models LW39A-16 and LW39B-16 are integrated into the "function model" in the new model.

(2)"Code of position", for easy memorization and to reduce the errors during the ordering, please use the new code applicable rules in the definition of a new model. (Reference to Code of Position in p16 for details)

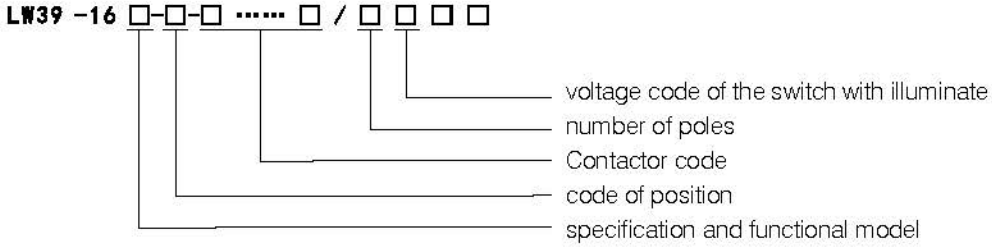
(3) The contactor codes can be prepared by the user or us flexibly or follow the existing "contactor codes handbook'" for easy memorization and individualized compiling (reference to Code of Position in p17 for details)

Please try to order the products according to the new defining method of the models and we feel sorry for any inconvenience to you!

Example of Old Model:



Example of New Model:



Comparison Table for New and Old Codes of Position

To make the existing customers to easily understand and use the new codes of position, the following table is to list the comparison between the new and old codes.

Comparison Table for New and Old Codes of Position

Type A (LW39-16A) Codes of Positioning		
Old Code	New Code	Position
C	4AB	0° 45°
D	4OB	45° 0° 45°
E	4OC	45° 0° 45° 90°
F	4GC	90° 45° 0°45° 90°
G	4GD	90° 45° 0°45° 90° 135°
V	4GE	90° 45° 0°45° 90° 135°180°
U	4GF	90° 45° 0°45° 90° 135°180° 225°
UT	4GG	90° 45° 0° 45° 90° 135° 180° 225° without limiting part
H	3OC	30° 0° 30° 60°
I	3KC	60° 30° 0° 30° 60°
J	3JC	90° 60° 30° 0° 30° 60°
K	3JD	90° 60° 30° 0° 30° 60° 90°
L	3JE	90° 60° 30° 0° 30° 60° 90° 120°
LD	3OG	30° 0° 30° 60° 90°120°150°180°
M	3JF	90°60°30°0°30°60°90°120°150°
N	3JG	90°60°30° 0° 30° 60° 90°120°150°180°
ND	3OI	30° 0° 30° 60° 90°120°150°180° 210° 240°
P	3JH	90° 60° 30° 0° 30° 60° 90° 120° 150° 180° 210°
Q	3JI	90° 60° 30° 0° 30° 60° 90° 120° 150° 180° 210° 240°
QD	3OK	30°0°30°60°90°120°150°180°210°240°270°300°
QT	3JJ	90° 60° 30° 0° 30° 60° 90° 120° 150° 180° 210° 240° without limiting part
R	9OB	45° 45°
RA	9GA	90° 0°
RE	9AC	0° 90°
S	9GC	90° 0° 90°
T	9GE	90° 0° 90° 180°
TT	9GG	90° 0° 90° 180° without limiting part

Type B (LW39-16B) Codes of Positioning		
Old Code	New Code	Position
C	6AC	0° 60°
D	6KC	60° 0° 60°
E	6JD	90° 30° 30° 90°
F	6IE	120° 60° 0° 60° 120°
G	6IG	120° 60° 0° 60° 120° 180°
GT	6II	120° 60° 0° 60° 120° 180° without limiting part
H	3OC	30° 0° 30° 60°
I	3KC	60° 30° 0° 30° 60°
J	3JC	90° 60°30° 0° 30° 60°
K	3JD	90° 60°30° 0° 30° 60° 90°
L	3JE	90° 60°30° 0° 30° 60° 90° 120°
LD	3OG	30° 0° 30° 60° 90° 120° 150° 180°
M	3JF	90° 60°30° 0° 30° 60° 90° 120° 150°
N	3JG	90° 60°30° 0° 30° 60° 90° 120° 150° 180°
ND	3OI	30° 0° 30° 60° 90° 120° 150° 180° 210° 240°
P	3JH	90° 60°30° 0° 30° 60° 90° 120° 150° 180° 210°
Q	3JI	90° 60°30° 0° 30° 60° 90° 120° 150° 180° 210° 240°
QD	3OK	30°0°30°60°90°120°150°180°210°240°270°300°
QT	3JJ	90° 60°30° 0° 30° 60° 90° 120° 150° 180° 210° 240° without limiting part
R	6OB	30° 30°
RA	9GA	90° 0°
RE	9AC	0° 90°
S	9GC	90° 0° 90°
T	9GE	90° 0° 90° 180°
TT	9GG	90° 0° 90° 180° without limiting part

Models of Common Cam switches

Normal ON/OFF Switches

Number of Pole	Printing	0	1	Model
1 Pole	1-2		×	LW39-□□-□-02/1
	3-4		×	
2 Pole	5-6		×	LW39-□□-□-04/2
	7-8		×	
3 Pole	9-10		×	LW39-□□-□-06/3
	11-12		×	
4 Pole	13-14		×	LW39-□□-□-08/4
	15-16		×	
5 Pole	17-18		×	LW39-□□-□-0A/5
	19-20		×	
6 Pole	21-22		×	LW39-□□-□-0C/6
	23-24		×	
7 Pole	25-26		×	LW39-□□-□-0E/7
	27-28		×	
8 Pole	29-30		×	LW39-□□-□-0G/8
	31-32		×	
9 Pole	33-34		×	LW39-□□-□-0I/9
	35-36		×	
10 Pole	37-38		×	LW39-□□-□-0K/10
	39-40		×	

Example: LW39-16A-4AB-06/3, indicates LW39-16A type 3-pole ON/OFF switch with the positioning angle as 0°,45°and printing on panel as 0, 1

Double-throw Switches without "0" position and with independent contact

Number of Pole	Printing	1	2	Model
1 Pole	1-2	×		LW39-□□-□-11/1
	3-4		×	
2 Pole	5-6	×		LW39-□□-□-22/2
	7-8		×	
3 Pole	9-10	×		LW39-□□-□-33/3
	11-12		×	
4 Pole	13-14	×		LW39-□□-□-44/4
	15-16		×	
5 Pole	17-18	×		LW39-□□-□-55/5
	19-20		×	
6 Pole	21-22	×		LW39-□□-□-66/6
	23-24		×	
7 Pole	25-26	×		LW39-□□-□-77/7
	27-28		×	
8 Pole	29-30	×		LW39-□□-□-88/8
	31-32		×	
9 Pole	33-34	×		LW39-□□-□-99/9
	35-36		×	
10 Pole	37-38	×		LW39-□□-□-AA/10
	39-40		×	

Example: LW39-16A-90B-33/3, indicates LW39-16A type 3-pole double-throw switch with the positioning angle as -45°, 45° and printing on panel as 1, 2

Double-throw Switch, without "0" position and double connecting straps

Number of Pole	Printing	1	2	Model
1 Pole	1-2	×		LW39-□□-□-11J/1
	3-4		×	
2 Pole	5-6	×		LW39-□□-□-22J/2
	7-8		×	
3 Pole	9-10	×		LW39-□□-□-33J/3
	11-12		×	
4 Pole	13-14	×		LW39-□□-□-44J/4
	15-16		×	
5 Pole	17-18	×		LW39-□□-□-55J/5
	19-20		×	
6 Pole	21-22	×		LW39-□□-□-66J/6
	23-24		×	
7 Pole	25-26	×		LW39-□□-□-77J/7
	27-28		×	
8 Pole	29-30	×		LW39-□□-□-88J/8
	31-32		×	
9 Pole	33-34	×		LW39-□□-□-99J/9
	35-36		×	
10 Pole	37-38	×		LW39-□□-□-AAJ/10
	39-40		×	

Example: LW39-16B-60B-33J/3, indicates LW39-16B type 3-pole double-throw switch, with connecting strap, positioning angle as -30°, 30° and printing on panel as 1, 2

Double-throw Switch, with "0" position and with independent contact

Number of Pole	Printing	1	0	2	Model
			0°		
1 Pole	1-2	×			LW39-□□-□-101/1
	3-4			×	
2 Pole	5-6	×			LW39-□□-□-202/2
	7-8			×	
3 Pole	9-10	×			LW39-□□-□-303/3
	11-12			×	
4 Pole	13-14	×			LW39-□□-□-404/4
	15-16			×	
5 Pole	17-18	×			LW39-□□-□-505/5
	19-20			×	
6 Pole	21-22	×			LW39-□□-□-606/6
	23-24			×	
7 Pole	25-26	×			LW39-□□-□-707/7
	27-28			×	
8 Pole	29-30	×			LW39-□□-□-808/8
	31-32			×	
9 Pole	33-34	×			LW39-□□-□-909/9
	35-36			×	
10 Pole	37-38	×			LW39-□□-□-A0A/10
	39-40			×	

Example: LW39-25-40B-303/3, indicates LW39-25 type 3-pole double-throw switch, with positioning angle as -45°, 0°, 45° and printing on panel as 1, 0, 2

Double-throw Switches with "0" position and double connecting straps

Number of Pole	Printing	1	0	2	Model
			0°		
1 Pole	1-2	×			
	3-4			×	LW39-□□-□-101J/1
2 Pole	5-6	×			
	7-8			×	LW39-□□-□-202J/2
3 Pole	9-10	×			
	11-12			×	LW39-□□-□-303J/3
4 Pole	13-14	×			
	15-16			×	LW39-□□-□-404J/4
5 Pole	17-18	×			
	19-20			×	LW39-□□-□-505J/5
6 Pole	21-22	×			
	23-24			×	LW39-□□-□-606J/6
7 Pole	25-26	×			
	27-28			×	LW39-□□-□-707J/7
8 Pole	29-30	×			
	31-32			×	LW39-□□-□-808J/8
9 Pole	33-34	×			
	35-36			×	LW39-□□-□-909J/9
10 Pole	37-38	×			
	39-40			×	LW39-□□-□-A0AJ/10

Example: LW39-25-40B-404J/4, indicates LW39-25 type 4-pitch double-throw switch, with connecting strap, positioning angle as -45°, 0°, 45° and printing on panel as 1, 0, 2

Multi-gear Switches 3-gear Switches

Number of Pole	Printing	1	2	3	Model
1 Pole	1-2	×			
	3-4		×		
2 Pole	5-6			×	LW39-□□-□-111J/2
	7-8	×			
3 Pole	9-10		×		
	11-12			×	LW39-□□-□-222J/3
4 Pole	13-14	×			
	15-16		×		
5 Pole	17-18			×	LW39-□□-□-333J/5
	19-20	×			
6 Pole	21-22		×		
	23-24			×	LW39-□□-□-444J/6
7 Pole	25-26	×			
	27-28		×		
8 Pole	29-30			×	LW39-□□-□-555J/8
	31-32	×			
9 Pole	33-34		×		
	35-36			×	LW39-□□-□-666J/9

Multi-gear Switch, 4-gear Switch

Number of Pole	Printing	1	2	3	4	
1 Pole	1-2	×				
	3-4		×			LW39-□□-□-1111J/2
2 Pole	5-6			×		
	7-8				×	
3 Pole	9-10	×				
	11-12		×			LW39-□□-□-2222J/4
4 Pole	13-14			×		
	15-16				×	
5 Pole	17-18	×				
	19-20		×			LW39-□□-□-3333J/6
6 Pole	21-22			×		
	23-24				×	
7 Pole	25-26	×				
	27-28		×			LW39-□□-□-4444J/8
8 Pole	29-30			×		
	31-32				×	
9 Pole	33-34	×				
	35-36		×			LW39-□□-□-5555J/10
10 Pole	37-38			×		
	39-40				×	
11 Pole	41-42	×				
	43-44		×			LW39-□□-□-6666J/12
12 Pole	45-46			×		
	47-48				×	

Multi-gear Switch, 5-gear Switch

Number of Pole	Printing	1	2	3	4	5	
1 Pole	1-2	×					
	3-4					×	
2 Pole	5-6		×				LW39-□□-□-1 × 5J/3
	7-8			×			
3 Pole	9-10				×		
	11-12		×				
4 Pole	13-14			×			
	15-16				×		LW39-□□-□-2 × 5J/5
5 Pole	17-18	×					
	19-20					×	
6 Pole	21-22	×					
	23-24					×	
7 Pole	25-26		×				LW39-□□-□-3 × 5J/8
	27-28			×			
8 Pole	29-30				×		
	31-32		×				
9 Pole	33-34			×			
	35-36				×		LW39-□□-□-4 × 5J/10
10 Pole	37-38	×					
	39-40					×	

Voltage Measurement Cam switch

With “0” position, N line and 3-phase phase voltage of changeover measurement

LW39-16A-YH1/3 LW39-16B-YH1/3 LW39-25-YH1/3					
A74	B102	0	A	B	C
		0°	90°	180°	270°
A 1-2			×		
C 3-4					×
B 5-6				×	
N 9-10			×	×	×

With “0” position, 3-phasse wire voltage of changeover measurement

LW39-16A-YH2/3 LW39-16B-YH2/3 LW39-25-YH2/3					
A75	B103	O	AB	BC	CA
		0°	90°	180°	270°
B 1-2			×	×	
A 5-6					×
7-8			×		
C 11-12				×	×

Without “0” position, with N line, 3-phase phase voltage of changeover measurement

LW39-16A-YH3/3 LW39-16B-YH3/3 LW39-25-YH3/3				
A72	B100	A	B	C
		-90°	0°	90°
A 1-2		×		
C 3-4				×
B 5-6			×	
N 9-10		×	×	×

Without “0” position, 3-phase wire voltage of changeover measurement

LW39-16A-YH4/2 LW39-16B-YH4/2 LW39-25-YH4/2				
A73	B101	AB	BC	CA
		-90°	0°	90°
B 1-2		×	×	
C 3-4			×	×
A 5-6				×
7-8		×		

With “0” position, N line, 3-phase phase voltage and 3-phasse wire voltage of changeover measurement

LW39-16A-YH5/4 LW39-16B-YH5/4 LW39-25-YH5/4								
A57	B4-1	CA	BC	AB	O	AN	BN	CN
		-135°	-90°	-45°	0°	45°	90°	135°
C 1-2			×					×
B 3-4				×			×	
5-6		×						
A 7-8						×		
9-10						×		×
11-12		×		×				
N 13-14							×	
15-16			×					

With “0” position, 3-phase wire voltage of changeover measurement separate for 2 power supplies

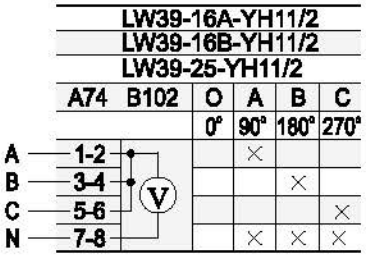
LW39-16A-YH6/4 LW39-16B-YH6/4 LW39-25-YH6/4							
	CA	BC	AB	O	AB	BC	CA
	-135°	-90°	-45°	0°	45°	90°	135°
2A 1-2					×		×
1A 3-4	×		×				
2B 5-6						×	
1C 7-8		×					
9-10					×		
11-12	×						
2C 13-14						×	×
1B 15-16		×	×				

With “0” position, N line, 1-phase phase voltage and 3-phase wire voltage of changeover measurement

LW39-16A-YH8/4 LW39-16B-YH8/4 LW39-25-YH8/4						
A57	B4-1	CA	BC	AB	O	AN
		-135°	-90°	-45°	0°	45°
C 1-2			×			
B 3-4				×		
5-6		×				
A 7-8						×
9-10						×
11-12		×		×		
N 13-14						
15-16			×			

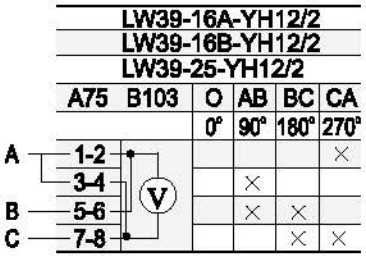
Voltage Measurement Cam switch

With “0” position, without N line, 3-phase wire voltage of changeover measurement



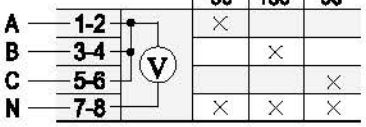
LW39-16A-YH11/2 LW39-16B-YH11/2 LW39-25-YH11/2					
A74	B102	O	A	B	C
		0°	90°	180°	270°
1-2			×		
3-4				×	
5-6					×
7-8			×	×	×

With “0” position, without N line, 3-phase wire voltage of changeover measurement



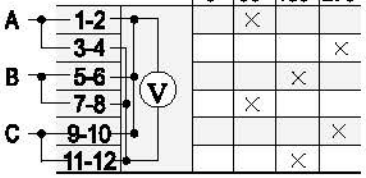
LW39-16A-YH12/2 LW39-16B-YH12/2 LW39-25-YH12/2					
A75	B103	O	AB	BC	CA
		0°	90°	180°	270°
1-2					×
3-4			×		
5-6			×	×	
7-8				×	×

Without “0” position, with N line, 3-phase phase voltage of changeover measurement



LW39-16A-YH13/2 LW39-16B-YH13/2 LW39-25-YH13/2				
A72	B100	A	B	C
		-90°	180°	90°
1-2		×		
3-4			×	
5-6				×
7-8		×	×	×

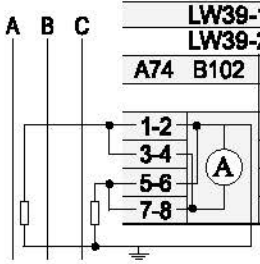
With “0” position, without N line, 3-phase wire voltage of changeover measurement



LW39-16A-YH22/3 LW39-16B-YH22/3 LW39-25-YH22/3					
A75	B103	O	AB	BC	CA
		0°	90°	180°	270°
1-2			×		
3-4					×
5-6				×	
7-8			×		
9-10					×
11-12				×	

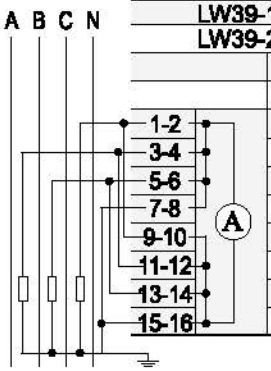
Current Measurement Cam switch

2 transformers, with “0” line, without N line, 3-phase current of changeover measurement



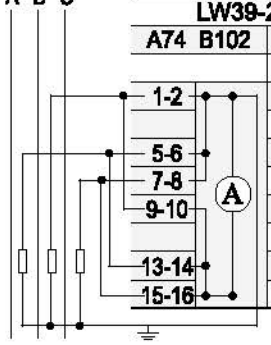
LW39-16A-LH1/2 LW39-16B-LH1/2 LW39-25-LH1/2					
A74	B102	O	A	B	C
		0°	90°	180°	270°
1-2		×			×
3-4			×	×	
5-6		×	×		
7-8				×	×

3 transformers, with N line, changeover measurement A, B, C, N 3-phase 4-wire current



LW39-16A-LH2/4 LW39-16B-LH2/4 LW39-25-LH2/4				
	N	A	B	C
	0°	90°	180°	270°
1-2	×	×	×	
3-4	×		×	×
5-6	×	×		×
7-8		×	×	×
9-10				×
11-12		×		
13-14			×	
15-16	×			

3 transformers, with “0” position, changeover measurement A, B, C 3-phase current



LW39-16A-LH3/4 LW39-16B-LH3/4 LW39-25-LH3/4					
A74	B102	O	A	B	C
		0°	90°	180°	270°
1-2		×	×		×
5-6		×		×	×
7-8		×	×	×	
9-10				×	
13-14			×		
15-16					×

Power Transmission and Distribution ON/OFF Control Switches LW39A Type

Model of Switch		LW39-16A-ZJ/1a.4.6a.40.20/7					
		LW39-25-ZJ/1a.4.6a.40.20/7					
Panel Symbol		After Break	Pre-close	Close	After Close	Pre-break	Break
Handle Direction		←	↑	↗	↑	←	↙
Handle Angle		-90°	0°	45°	0°	-90°	-135°
1a	1-3		×		×		
	2-4	×				×	
4	5-8			×			
	6-7						×
6a	9-10		×		×		
	10						
	9-12			×			
	11-10	×				×	×
40	13-14		×			×	
	15-14	×					×
	13-16			×	×		
20	17-19			×	×		
	20-18	×					×
	17-18		×			×	

Note: replace LW2-Z-1a.4.6a.40.20./F8

Model of Switch	LW39-16A-Z/49.6781/8					
	LW39-25-Z/49.6781/8					
Panel Symbol	After Break	Pre-close	Close	After Close	Pre-break	Break
Handle Direction	←	↑	↗	↑	←	↙
Handle Angle	-90°	0°	45°	0°	-90°	-135°
1-2		×		×		
3-4	×				×	
5-6			×			
7-8						×
9-10		×		×		
11-12						
13-14			×			
15-16	×				×	×
17-18						×
19-20						
21-22		×			×	
23-24	×					×
25-26			×	×		
27-28			×	×		
29-30		×			×	
31-32	×					×

Note: replace LW12-16D/49.6781/7

Model of Switch		LW39-16A-Z/1a.4.20/4					
		LW39-25-Z/1a.4.20/4					
Panel Indication		After Break	Pre-close	Close	After Close	Pre-break	Break
Handle Direction		←	↑	↗	↑	←	↙
Position Angle		-90°	0°	45°	0°	-90°	-135°
1a	1-2		×		×		
	3-4	×				×	
4	5-6			×			
	7-8						×
20	9-10			×	×		
	11-12		×			×	
	13-14	×					×
	15-16						

Note: replace LW2-Z-1a.4.20/F8

Model of Switch		LW39-16A-Z/1a.4.6a.40.20/5					
		LW39-25-Z/1a.4.6a.40.20/5					
Panel Indication		After Break	Pre-close	Close	After Close	Pre-break	Break
Handle Direction		←	↑	↗	↑	←	↙
Position Angle		-90°	0°	45°	0°	-90°	-135°
1a	1-2		×		×		
	3-4	×				×	
4	5-6			×			
	7-8						×
6a	9-10		×	×	×		
	11-12	×				×	×
40	13-14	×	×			×	×
	15-16			×	×		
20	17-18			×	×		
	19-20	×					×

Note: replace LW2-Z1a.4.6a.40.20/F8

Model of Switch		LW39-16A-ZJ/1a.4.6a.20/6					
		LW39-25-ZJ/1a.4.6a.20/6					
Panel Indication		After Break	Pre-close	Close	After Close	Pre-break	Break
Handle Direction		←	↑	↗	↑	←	↙
Position Angle		-90°	0°	45°	0°	-90°	-135°
1a	1-3		×		×		
	2-4	×				×	
4	5-8			×			
	6-7						×
6a	9-10		×		×		
	10						
	9-12			×			
	11-10	×				×	×
20	13-14		×			×	
	13-15			×	×		
	16-14	×					×

Capacitor Enclosure Regulating Switches

8-loop Main Capacitor Enclosure Regulating Switch

LW39-16A-3OI-21-9/6 LW39-16B-3OI-21-9/6	Auto -30°	0 0°	1 30°	2 60°	3 90°	4 120°	5 150°	6 180°	7 210°	8 240°
1-2		×	×	×	×	×	×	×	×	×
3-4	×									
5-6	×									
7-8			×	×	×	×	×	×	×	×
9-10				×	×	×	×	×	×	×
11-12					×	×	×	×	×	×
13-14						×	×	×	×	×
15-16							×	×	×	×
17-18								×	×	×
19-20									×	×
21-22										×
23-24										

8-loop Auxiliary Capacitor Enclosure Regulating Switch

LW39-16A-3JF-0-8/4 LW39-16B-3JF-0-8/4	0 -90°	1 -60°	2 30°	3 0°	4 30°	5 60°	6 90°	7 120°	8 150°
1-2		×	×	×	×	×	×	×	×
3-4			×	×	×	×	×	×	×
5-6				×	×	×	×	×	×
7-8					×	×	×	×	×
9-10						×	×	×	×
11-12							×	×	×
13-14								×	×
15-16									×

6-loop Main Capacitor Enclosure Regulating Switch

LW39-16A-3OG-21-7/5 LW39-16B-3OG-21-7/5	Auto -30°	0 0°	1 30°	2 60°	3 90°	4 120°	5 150°	6 180°
1-2		×	×	×	×	×	×	×
3-4	×							
5-6	×							
7-8			×	×	×	×	×	×
9-10				×	×	×	×	×
11-12					×	×	×	×
13-14						×	×	×
15-16							×	×
17-18								×
19-20								

6-loop Auxiliary Capacitor Enclosure Regulating Switch

LW39-16A-3JD-0-6/3 LW39-16B-3JD-0-6/3	0 -90°	1 -60°	2 30°	3 0°	4 30°	5 60°	6 90°
1-2		×	×	×	×	×	×
3-4			×	×	×	×	×
5-6				×	×	×	×
7-8					×	×	×
9-10						×	×
11-12							×

10-loop Main Capacitor Enclosure Regulating Switch

LW39-16A-3OK-21-AC/7 LW39-16B-3OK-21-AC/7	Auto -30°	0 0°	1 30°	2 60°	3 90°	4 120°	5 150°	6 180°	7 210°	8 240°	9 270°	10 300°
1-2		×	×	×	×	×	×	×	×	×	×	×
3-4	×											
5-6	×											
7-8			×	×	×	×	×	×	×	×	×	×
9-10				×	×	×	×	×	×	×	×	×
11-12					×	×	×	×	×	×	×	×
13-14						×	×	×	×	×	×	×
15-16							×	×	×	×	×	×
17-18								×	×	×	×	×
19-20									×	×	×	×
21-22										×	×	×
23-24											×	×
25-26												×
27-28												×

10-loop Auxiliary Capacitor Enclosure Regulating Switch

LW39-16A-3JH-0-A/5 LW39-16B-3JH-0-A/5	0 -90°	1 -60°	2 30°	3 0°	4 30°	5 60°	6 90°	7 120°	8 150°	9 180°	10 210°
1-2		×	×	×	×	×	×	×	×	×	×
3-4			×	×	×	×	×	×	×	×	×
5-6				×	×	×	×	×	×	×	×
7-8					×	×	×	×	×	×	×
9-10						×	×	×	×	×	×
11-12							×	×	×	×	×
13-14								×	×	×	×
15-16									×	×	×
17-18										×	×
19-20											×

Product Model of Operating Motor Switch

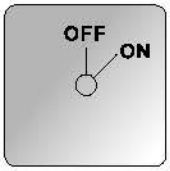
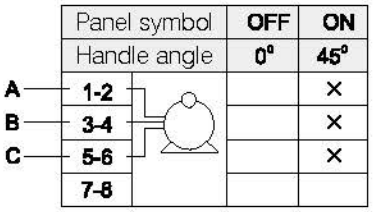
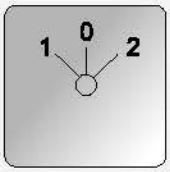
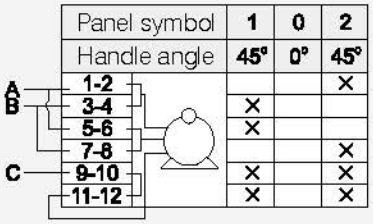
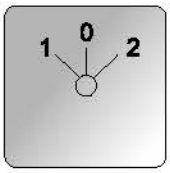
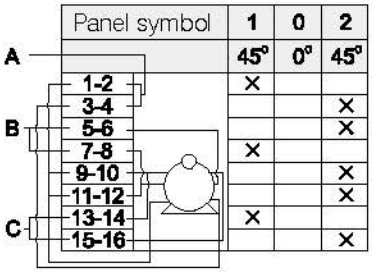
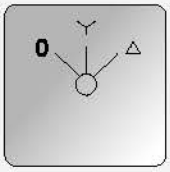
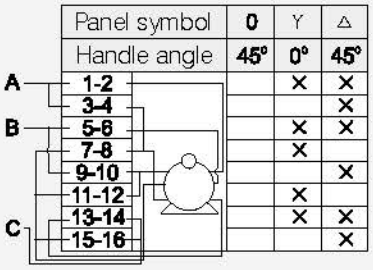
LW39-□ □ □□ / □ - □

- Motor Power (kW)
- Code of Usage Feature (reference to Table 2)
- Conventional Thermal Current

Usage

Table 2 Codes of Usage Features of Operating Motor

Usage	Direct Startup Cage Motor	Forward / Backward Startup Cage Motor	Two-speed Motor Direct Startup and Variable Speed	Star delta Startup Cage Motor
Code of Feature	Q	N	S	XS

Function	Model	Panel Symbol	Junction List
Direct startup, disconnected during the operation	LW39-63-Q15/2 LW39-25-Q5.5/2 LW39-16A-Q3/2 LW39-16B-Q3/2		
Startup, plug braking Reversal, closed ON/OFF	LW39-63-N6/3 LW39-25-N4/3 LW39-16A-N1.2/3 LW39-16B-N1.2/3		
Two-speed motor Startup and variable speed	LW39-63-S15/4 LW39-25-S5.5/4 LW39-16A-S3/4 LW39-16B-S3/4		
Star delta startup	LW39-63-XS18.5/4		

Blank Contactor diagram

Customer Name: _____ Contact Person: _____

Contact: (Tel No.) _____ (Fax No.) _____

Description of Basic technical data of Cam switch:

Ith: _____ A

Handle : _____ (Fill the code)

Model: _____

Escutcheon Plates													
Position													
Terminal Number and contactor closed/ opened Status	1 o–o o–o 2												
	3 o–o o–o 4												
	5 o–o o–o 6												
	7 o–o o–o 8												
	9 o–o o–o 10												
	11 o–o o–o 12												
	13 o–o o–o 14												
	15 o–o o–o 16												
	17 o–o o–o 18												
	19 o–o o–o 20												
	21 o–o o–o 22												
	23 o–o o–o 24												
	25 o–o o–o 26												
	27 o–o o–o 28												
	29 o–o o–o 30												
	31 o–o o–o 32												
	33 o–o o–o 34												
	35 o–o o–o 36												
	37 o–o o–o 38												
	39 o–o o–o 40												
	41 o–o o–o 42												
	43 o–o o–o 44												
	45 o–o o–o 46												
	47 o–o o–o 48												

Model of Cam switch (confirmed by the manufacturer): _____

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