

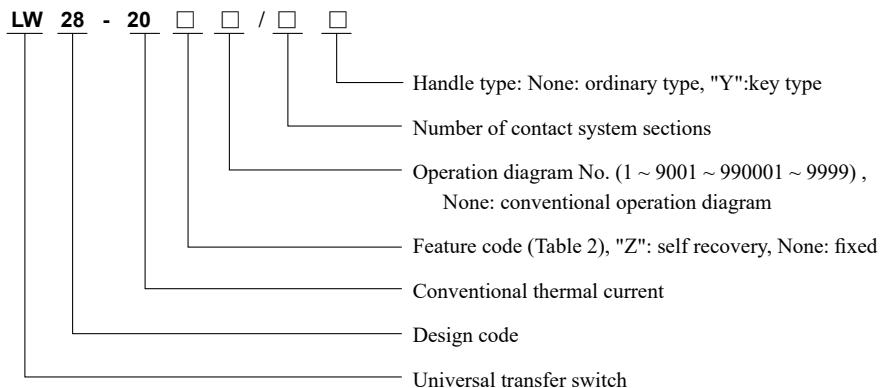
LW28 Series Rotary Change-over Cam Switch



1 Overview

LW28 series Rotary Change-over Cam Switches is mainly used in AC 50Hz main circuit with a rated working voltage of 380V and below and with a DC voltage of 220V and below for power-on, power-off and change-over of circuit and also for direct master control and circuit measurement.

2 Type Designation



3 Technical Parameters

Table 1

Name	LW28-20	
	AC-15	DC-13
Rated working voltage Ue(V)	380	220
Rated working current Ie(A)	1.5	0.14
Rated insulation voltage Ui(V)		550
Resistive current Ith(A)		20
Electrical life (times)	20×10^4	6×10^4
Mechanical life (times)		30×10^4
Operating frequency (times/h)		120

4 Others

4.1 Classification

- 4.1.1 There are main circuit change-over, direct control motor and master control according to the purpose.
- 4.1.2 There are location type, self-reset type and location and self-reset type.
- 4.1.3 There are location type 1-12 sections, self-reset 1-3 sections, and direct control motor 1-6 sections according to the number of the contact system sections.
- 4.1.4 There are 30°, 45°, 60°, and 90° according to the operating angle.

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4.2 Classified according to the operating method and operator position (see Table 2)

Table 2

Use category	Feature code	Operator position	
Self-reset	A	0° 30°	
	B	30° 0° 30°	
Location type	C	0° 90°	0° 30°
	D	90° 0° 90°	30° 0° 30°
	E	90° 0° 90° 180°	30° 0° 30° 60°
	F		60° 30° 0° 30° 60°
	G		60° 30° 0° 30° 60° 90°
	H		90° 60° 30° 0° 30° 60° 90°
	I		90° 60° 30° 0° 30° 60° 90° 120°
	J		120° 90° 60° 30° 0° 30° 60° 90° 120°
	K		120° 90° 60° 30° 0° 30° 60° 90° 120° 150°
	L		150° 120° 90° 60° 30° 0° 30° 60° 90° 120° 150°
Location type	M		150° 120° 90° 60° 30° 0° 30° 60° 90° 120° 150° 180°
	N		45° 45°
Self-set type	Z	30° 0° 60°	135° 90° 0° 45°
			90° 0° 45°

4.3 Wiring diagram of common control switch used in LW28 series voltage and current measurement switching box

Phase voltage phase-change switch

LW28-20/YH1/2	0	UA	UB	UC
	0°	90°	180°	270°
	1-2	x		
	3-4		x	
	5-6		x	
	7-8	x	x	x

LW28-20/YH3/2	UA	UB	UC	
	90°	0°	90°	
	1-2	x		
	3-4		x	
	5-6		x	
	7-8	x	x	x

LW28-20/YH1/3	0	UA	UB	UC
	0°	90°	180°	270°
	1-2	x		
	3-4		x	
	5-6		x	
	9-10	x	x	x

LW28-20/YH2/2	0	UAB	UBC	UCA
	0°	90°	180°	270°
	1-2			x
	3-4		x	
	5-6	x	x	
	7-8		x	x

LW28-20/YH4/2	UAB	UBC	UCA
	90°	0°	90°
	1-2		x
	3-4	x	
	5-6	x	x
	7-8	x	x

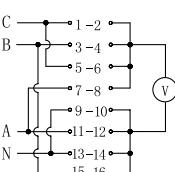
Line voltage phase-change switch

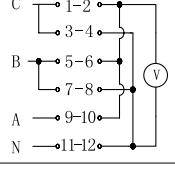
LW28-20-YH2/3	0	UAB	UBC	UCA
	0°	90°	180°	270°
	1-2	x	x	
	5-6		x	
	7-8	x		
	11-12		x	x

LW28-20-YH3/3	0	UAB	UBC	UCA
	0°	90°	180°	270°
	1-2	x		
	3-4		x	
	5-6		x	
	7-8	x		
	9-10		x	
	11-12			x

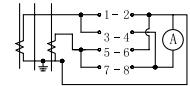
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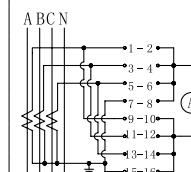
Three-phase line voltage and three-phase phase-voltage phase-change switch

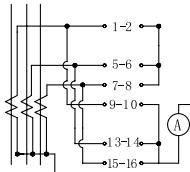
LW28-20-YH5/4	UCA	UBC	UAB	0	UAN	UBN	UCN
	135°	90°	45°	0°	45°	90°	135°
	1-2		x				x
	3-4			x		x	
	5-6	x					
	7-8				x		
	9-10				x	x	
	11-12	x		x			
	13-14					x	
	15-16		x				

LW28-20-YH5/3	UCA	UBC	UAB	0	UAN	UBN	UCN
	135°	90°	45°	0°	45°	90°	135°
	1-2		x				x
	3-4	x					
	5-6	x				x	
	7-8		x	x			
	9-10	x		x		x	
	11-12				x	x	x

Current measurement transfer switch

LW28-20 LH2/2	0	IA	IB	IC
	0°	90°	180°	270°
	1-2	x		x
	3-4		x	x
	5-6	x	x	
	7-8		x	x

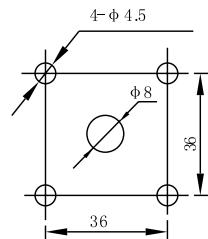
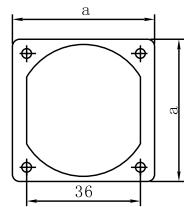
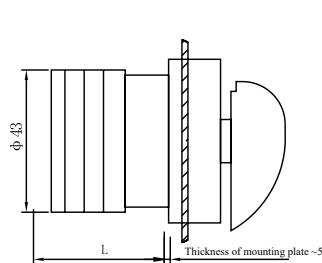
LW28-20 LH2/4	0	IA	IB	IC
	0°	90°	180°	270°
	1-2	x	x	x
	3-4	x		x
	5-6	x	x	x
	7-8	x	x	x
	9-10			x
	11-12		x	
	13-14			x
	15-16	x		

LW28-20 LH3/4	0	IA	IB	IC
	0°	90°	180°	270°
	1-2	x	x	x
	5-6	x		x
	7-8	x	x	x
	9-10			x
	13-14		x	
	15-16		x	

LW28-20/Q1/5.5	0	1
	0°	60°
Panel	A → 1-2	x
I ↴	B → 3-4	x
↑	C → 5-6	x
	7-8	

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5 Outline and Installation Dimensions



L= 22+9.6in a= 48×48

Installation dimensions

6 Ordering Notice

Please specify the complete model of switch when ordering.

For example: To order the universal change-over switch, the wiring diagram type is order code LW28-20 D303/2.

Wiring diagram No.	D303		
Conversion angle	60°	0°	60°
1-2	×		×
3-4	×		
5-6			×
7-8	×		×