

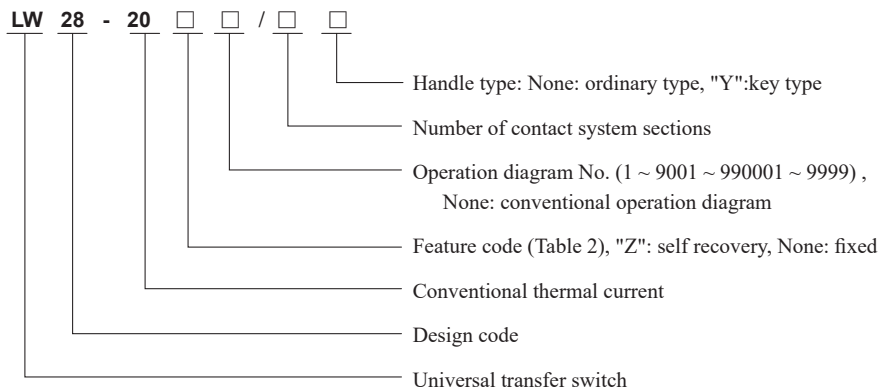
LW28 Series CAM Switch



1 Overview

LW28 Series 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 U_e (V)	380	220
Rated working current I_e (A)	1.5	0.14
Rated insulation voltage U_i (V)	550	
Resistive current I_{th} (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°
	M	150° 120° 90° 60° 30° 0° 30° 60° 90° 120° 150° 180°
	N	45° 45°
Location type	Z	30° 0° 60° 135° 90° 0° 45°
Self-set type		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	U _A	U _B	U _C
	0°	90°	180°	270°
A → 1-2	1-2	×		
B → 3-4	3-4		×	
C → 5-6	5-6			×
N → 7-8	7-8	×	×	×

LW28-20/YH3/2	U _A	U _B	U _C
	90°	0°	90°
A → 1-2	1-2	×	
B → 3-4	3-4	×	
C → 5-6	5-6		×
N → 7-8	7-8	×	×

LW28-20/YH1/3	0	U _A	U _B	U _C
	0°	90°	180°	270°
A → 1-2	1-2	×		
B → 3-4	3-4		×	
C → 5-6	5-6			×
N → 9-10	9-10	×	×	×

LW28-20/YH2/2	0	U _{AB}	U _{BC}	U _{CA}
	0°	90°	180°	270°
A → 1-2	1-2			×
B → 3-4	3-4	×		
C → 5-6	5-6	×	×	
N → 7-8	7-8		×	×

LW28-20/YH4/2	U _{AB}	U _{BC}	U _{CA}
	90°	0°	90°
A → 1-2	1-2		×
B → 3-4	3-4	×	
C → 5-6	5-6	×	×
N → 7-8	7-8	×	×

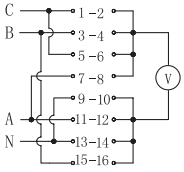
Line voltage phase-change switch

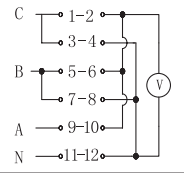
LW28-20-YH2/3	0	U _{AB}	U _{BC}	U _{CA}
	0°	90°	180°	270°
B → 1-2	1-2	×	×	
A → 5-6	5-6			×
C → 11-12	11-12	×	×	

LW28-20-YH3/3	0	U _{AB}	U _{BC}	U _{CA}
	0°	90°	180°	270°
A → 1-2	1-2	×		
B → 3-4	3-4		×	
C → 5-6	5-6		×	
N → 7-8	7-8	×		
N → 9-10	9-10			×
N → 11-12	11-12	×		

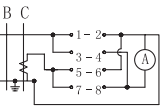
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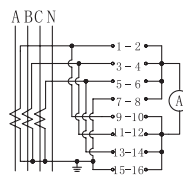
Three-phase line voltage and three-phase phase voltage phase-change switch

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

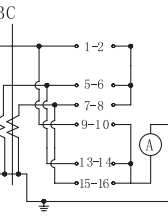
LW28-20-YH5/3	UCA	UBC	UAB	0	UAN	UBN	UCN
	135°	90°	45°	0°	45°	90°	135°
	1-2	×					×
	3-4	×					
	5-6	×				×	
	7-8	×	×				
	9-10	×	×		×		
	11-12				×	×	×

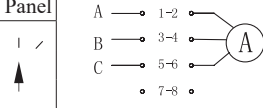
Current measurement transfer switch

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

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

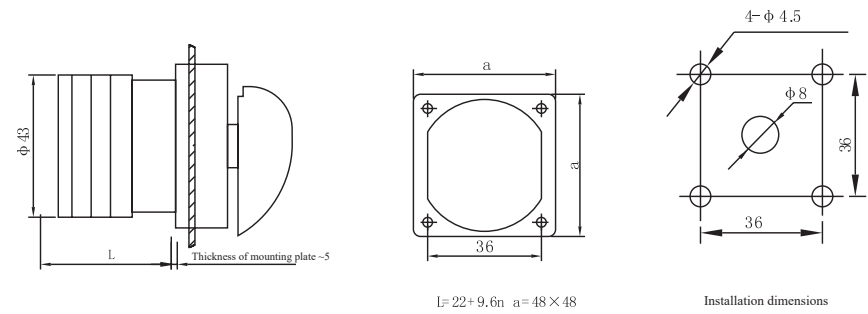
Break during direct start and operation

LW28-20 LH3/4	0	IA	IB	IC
	0°	90°	180°	270°
	1-2	×	×	×
	3-4	×	×	×
	5-6	×	×	×
	7-8	×	×	×
	9-10		×	
	11-12			
	13-14	×		
	15-16			×

LW28-20/Q1/5.5	0	1
	0°	60°
	1-2	×
	3-4	×
	5-6	×
	7-8	

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5 Outline and 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	×		×