

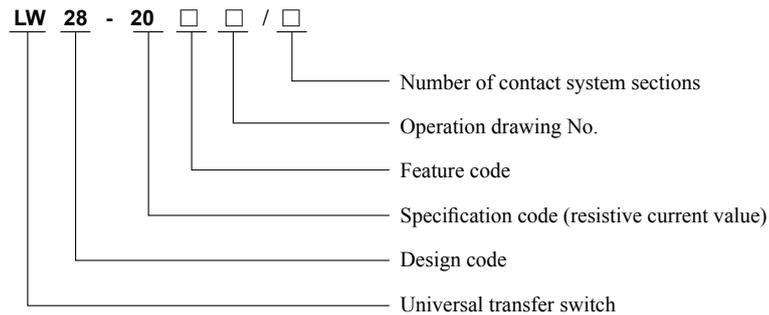
LW28 Series Rotary Change-over Cam Switches



1 Product 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 Product parameters

Item	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.
- 4.1.5 There are the following types according to the shape and size of the panel (see Table 2).

table 2

Large square panel		Small square panel	
Length	Width	Length	Width
64	64	48	48

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4.2 Classified according to the operating method and operator position (see Table 3)

Table 3

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	UA	UB	UC
	0°	90°	180°	270°
		×		
			×	
				×
	×	×	×	

LW28-20/YH3/2	UA	UB	UC
	90°	0°	90°
		×	
			×
	×	×	×

LW28-20/YH1/3	0	UA	UB	UC
	0°	90°	180°	270°
		×		
			×	
				×
	×	×	×	

LW28-20/YH2/2	0	UAB	UBC	UCA
	0°	90°	180°	270°
				×
		×		
		×	×	
			×	×

LW28-20/YH4/2	UAB	UBC	UCA
	90°	0°	90°
			×
	×		
	×	×	
		×	×

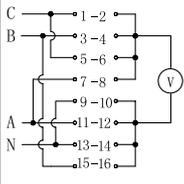
Line voltage phase-change switch

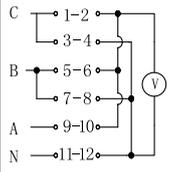
LW28-20-YH2/3	0	UAB	UBC	UCA
	0°	90°	180°	270°
		×	×	
				×
		×		
			×	×

LW28-20-YH3/3	0	UAB	UBC	UCA
	0°	90°	180°	270°
				×
			×	
		×		
				×

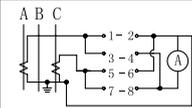
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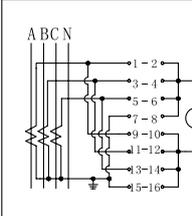
Three-phase line voltage and three-phase phase voltage phase-change switch

LW28-20-YH5/4	UCA	UBC	UAB	0	UAN	UBN	UCN
	135°	90°	45°	0°	45°	90°	135°
		×					×
			×			×	
	×						
					×		
	×		×			×	×
							×

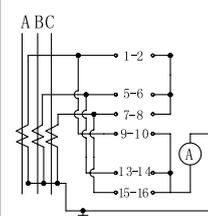
LW28-20-YH5/3	UCA	UBC	UAB	0	UAN	UBN	UCN	
	135°	90°	45°	0°	45°	90°	135°	
		×					×	
			×			×		
				×	×			
	×		×			×		
						×	×	×

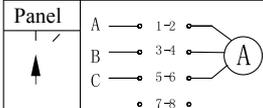
Current measurement transfer switch

LW28-20 LH2/2	0	IA	IB	IC
	0°	90°	180°	270°
	×			×
		×	×	
	×	×		
			×	×

LW28-20 LH2/4	0	IA	IB	IC
	0°	90°	180°	270°
	×	×	×	
	×		×	×
	×	×		×
		×	×	×
				×
	×		×	

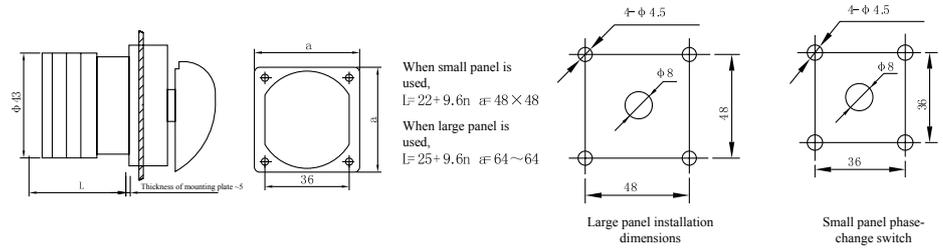
Break during direct start and operation

LW28-20LH3/4	0	IA	IB	IC
	0°	90°	180°	270°
	×	×		×
		×	×	×
	×	×	×	
			×	
		×		
				×

LW28-20/Q1/5.5		0	1
		0°	60°
		×	
			×
			×

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5 Outline and installation dimensions



6 Order information

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.	D 3 0 3		
Conversion angle	60°	0°	60°
1 - 2	×		×
3 - 4	×		
5 - 6			×
7 - 8	×		×