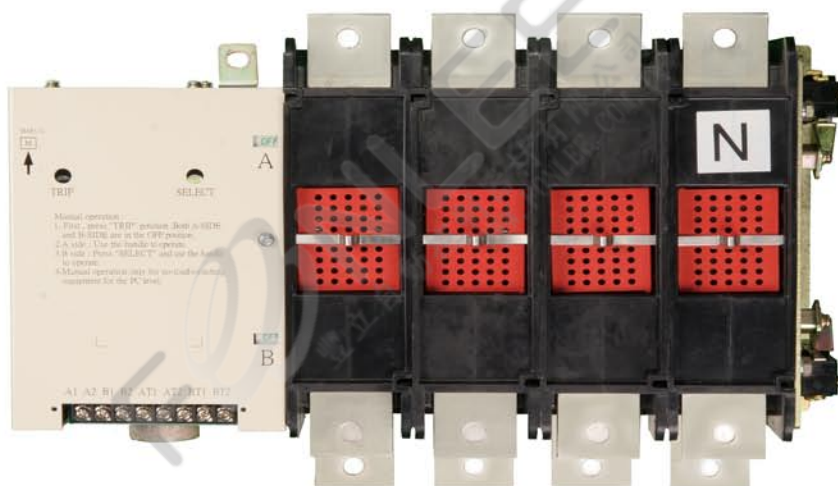


AUTOMATIC TRANSFER SWITCHES

LECTOTYPE MANUAL



www.twltk.com



ID: @gwq4409h



SHANG WET ELECTRIC CO.,LTD

SPECIFICATION

TDS SERIES

Type				TDS 01		TDS 02		TDS 04		TDS 06	
Rated voltage				AC800V							
Rated current(Ie)				100A		200A		400A		600A	
Connection				Front						Back	
Number of poles				3P	4P	3P	4P	3P	4P	3P	4P
Weight				6.3kg	7kg	6.3kg	7kg	12kg	14.5kg	33kg	42kg
	AC 100V/110V			20A							
	AC 200V/220V			10A							
	Trip coil current			AC 220V 2A							
Performance	Fuse protected short-circuit withstand										
	Rated Short-time current			100KA		120KA		120KA		120KA	
	Short-time withstand current without protection 240V										
	Rated Short-time current			10KA		10KA		12KA		15KA	
	Switching capacity			AC33B(10Ie Ie≤100A時cosφ=0.45、Ie≤100A時cosφ=0.35)							
	Operati on time	Source A	Closing	55ms		55ms		60ms		100ms	
			Tripping	20ms		20ms		25ms		30ms	
		Source B	Closing	80ms		80ms		90ms		135ms	
			Tripping	20ms		20ms		25ms		30ms	
	Life			Electrical:10000 operations , Machanical:15000 operation							
Switching frequency			120 operations/hour								
Auxiliary switch				2C for power source A,2C for power source B (240V AC15A.110V DC/5A Switching capacity)							
Accessories				Protective cover (front) 、 Surge absorber 、 Manual handle							

CHARACTERISTIC :

One-Coil Application : Only one coil is used for both service circuit and stand-by circuit switching. Surge absorber protection.

Reference Standards
IEC 60947-6-1 UL 1008

Neutral Point Method :

ATS can be positioned at neutral point by its tripping mechanism.

ATS control mode can be :

A→OFF→B · B→OFF→A and A→OFF→A · B→OFF→B Also, ATS can switch instantly to stand-by source when normal power service fails.

SPECIFICATION

TDS SERIES

Type				TDS 08		TDS 10		TDS 12		TDS 16	
Rated voltage				AC800V							
Rated current(Ie)				800A		1000A		1250A		1600A	
Connection				Back							
Number of poles				3P	4P	3P	4P	3P	4P	3P	4P
Weight				33kg	42kg	39kg	49kg	40kg	51kg	51kg	59kg
	AC 100V/110V			20A						40A	40A
	AC 200V/220V			10A						20A	20A
	Trip coil current			AC 220V 2A						4A	
Performance	Fuse protected short-circuit withstand										
	Rated Short-time current			120KA		120KA		120KA		120KA	
	Short-time withstand current without protection 240V										
	Rated Short-time current			22KA		22KA		25KA		25KA	
	Switching capacity			AC33B(10Ie Ie≤100A時cosφ=0.45、Ie≤100A時cosφ=0.35)							
	Operati on time	Source A	Closing	100ms	115ms	115ms	115ms				
			Tripping	30ms	25ms	25ms	25ms				
		Source B	Closing	135ms	145ms	145ms	150ms				
			Tripping	30ms	25ms	25ms	25ms				
	Life			Electrical:10000 operations , Machanical:15000 operation							
Switching frequency			120 operations/hour								
Auxiliary switch				2C for power source A,2C for power source B (240V AC15A.110V DC/5A Switching capacity)							
Accessories				Protective cover (front) 、 Surge absorber 、 Manual handle							

ORDERING FORM

*Optional, please contact us for more information

- Pole
2=2P 3=3P 4=4P
- Rated Current
01=100A 02=200A 04=400A
- Operating Voltage
0=Optional 1=AC110V 2=AC220V

SPECIFICATION

TDS SERIES

Type			TDS 20		TDS 25		
Rated voltage			AC 800V				
Rated current(Ie)			2000A		2500		
Connection			Back				
Number of poles			3P	4P	3P	4P	
Weight			115kg	135kg	115kg	135kg	
	AC100V/110V		40A	40A	40A	40A	
	AC200V/220V		20A	20A	20A	20A	
	Trip coil current		AC 220V 6A				
Performance	Fuse protected short-circuit withstand						
	Rated Short-time current		120KA		120KA		
	Short-time withstand current without protection 240V						
	Rated Short-time current		35KA		50KA		
	Switching capacity		AC33B(10Ie Ie≤100A時cosφ=0.45、Ie≤100A時cosφ=0.35)				
	Operati on time	Source A	Closing	180ms		180ms	
			Tripping	25ms		25ms	
		Source B	Closing	220ms		220ms	
			Tripping	25ms		25ms	
	Life			Electrical:10000 operations , Machanical:15000 operation			
Switching frequency			30 operations/hour				
Auxiliary switch			2C for power source A,2C for power source B (240V AC 2.5A,110V AC/5A,110V DC/5A Switching capacity)				
Accessories			Protective cover (front) 、 Manual handle				

1.Reference Standards

1.1 85~110% of operating voltage.

1.2 Withstand voltage

* Main circuit 2500VAC for 1 min. * operating circuit 2000VAC for 1 min.

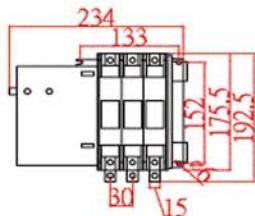
2.VA of operating transformer

The VA of transformer used in the operating circuit of should not be smaller than the value calculated as. operating voltage * operating current * 1.5=_____VA

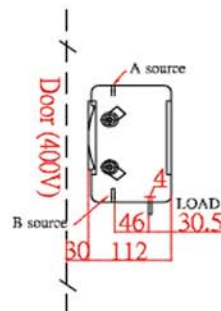
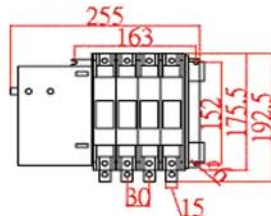
OVERALL DIMENSIONS (mm)

TDS SERIES

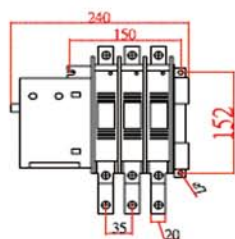
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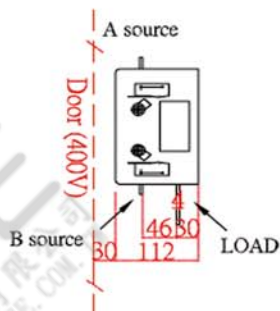
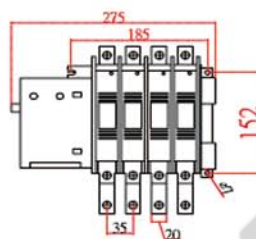
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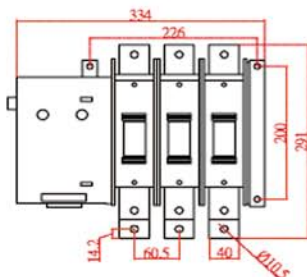
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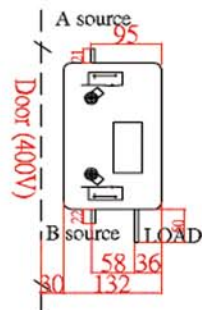
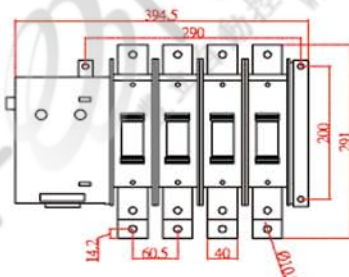
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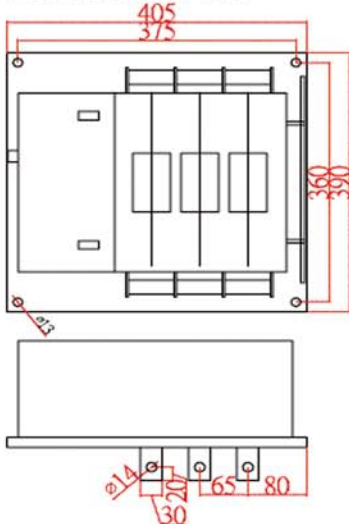
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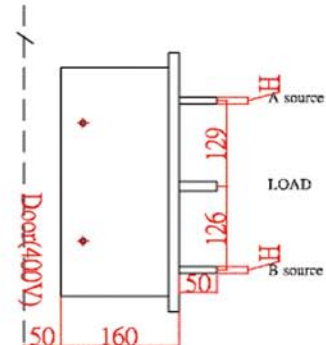
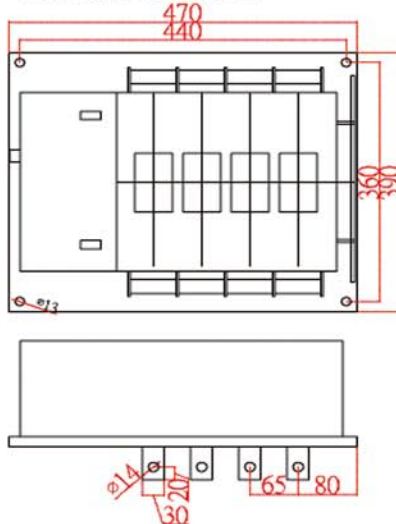
TYPE : TDS-4P400



TYPE:TDS-3P600
TYPE:TDS-3P800



TYPE:TDS-4P600
TYPE:TDS-4P800



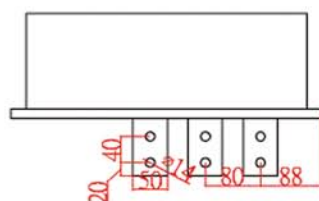
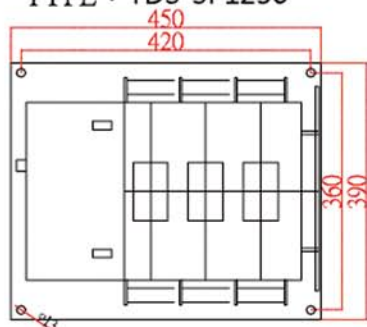
BUS (mm)

	600A	800A
H	15	15

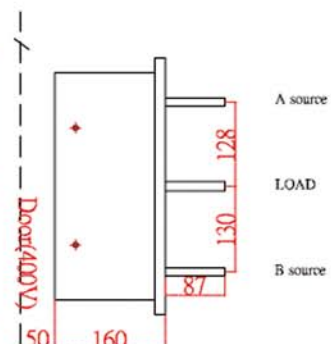
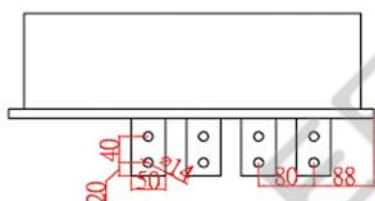
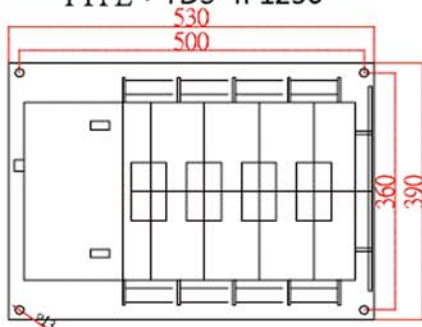
OVERALL DIMENSIONS (mm)

TDS SERIES

TYPE : TDS-3P1000
TYPE : TDS-3P1250

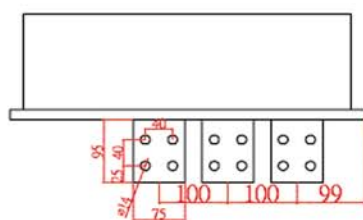
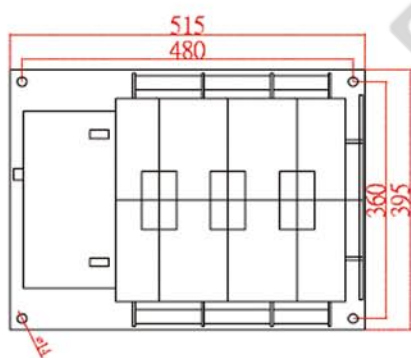


TYPE : TDS-4P1000
TYPE : TDS-4P1250

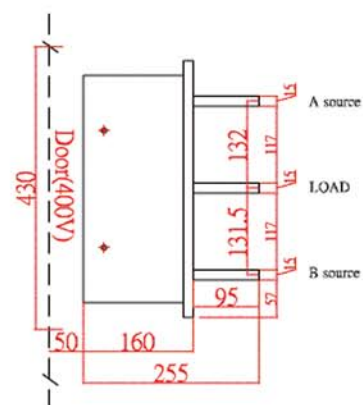
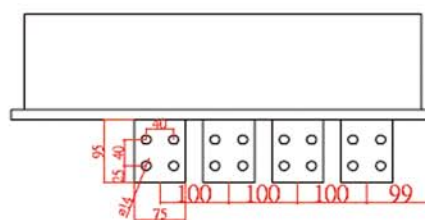
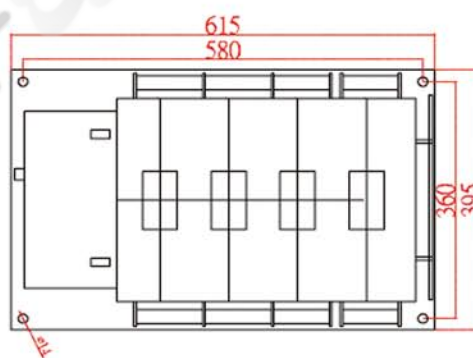


BUS (mm)		
	1000A	1250A
H	15	15

TYPE : TDS-3P1600



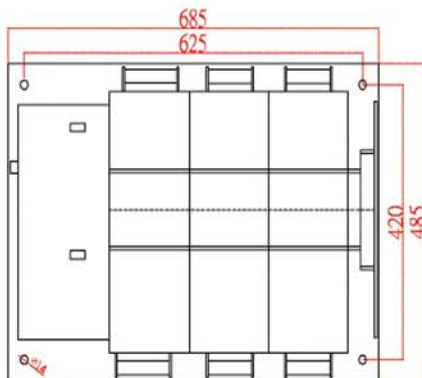
TYPE : TDS-4P1600



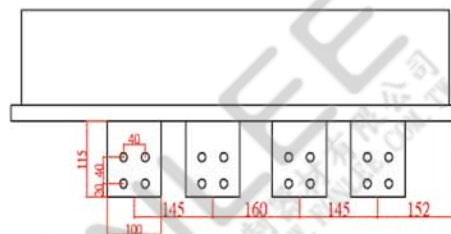
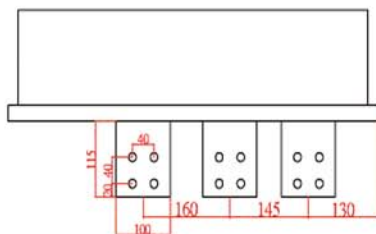
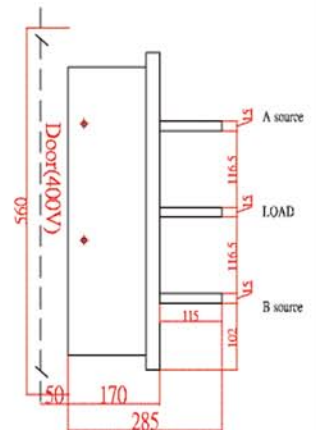
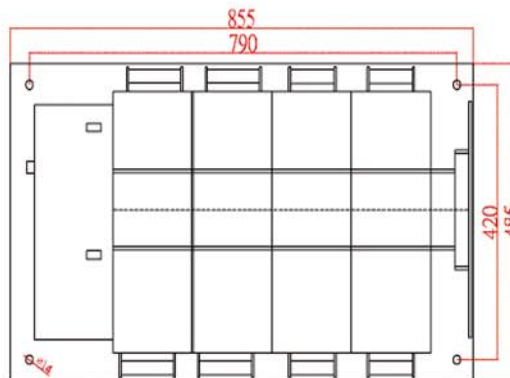
OVERALL DIMENSIONS (mm)

TDSN SERIES

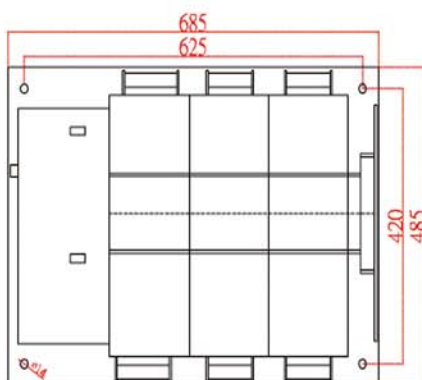
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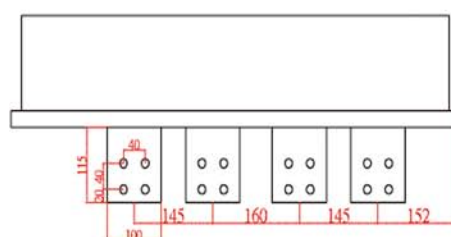
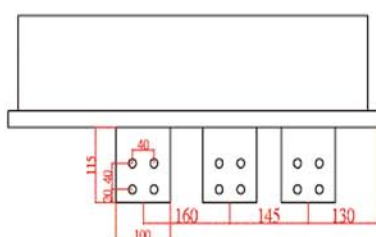
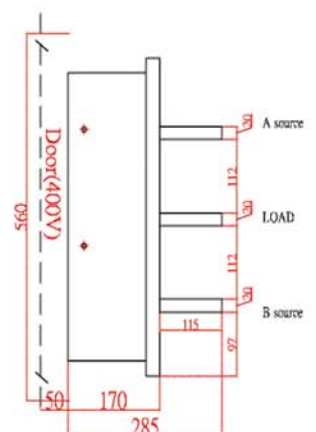
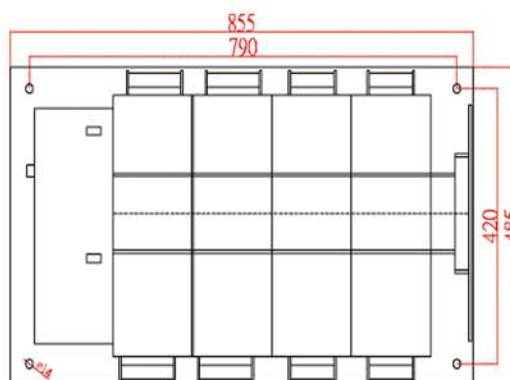
TYPE : TDS-4P2000



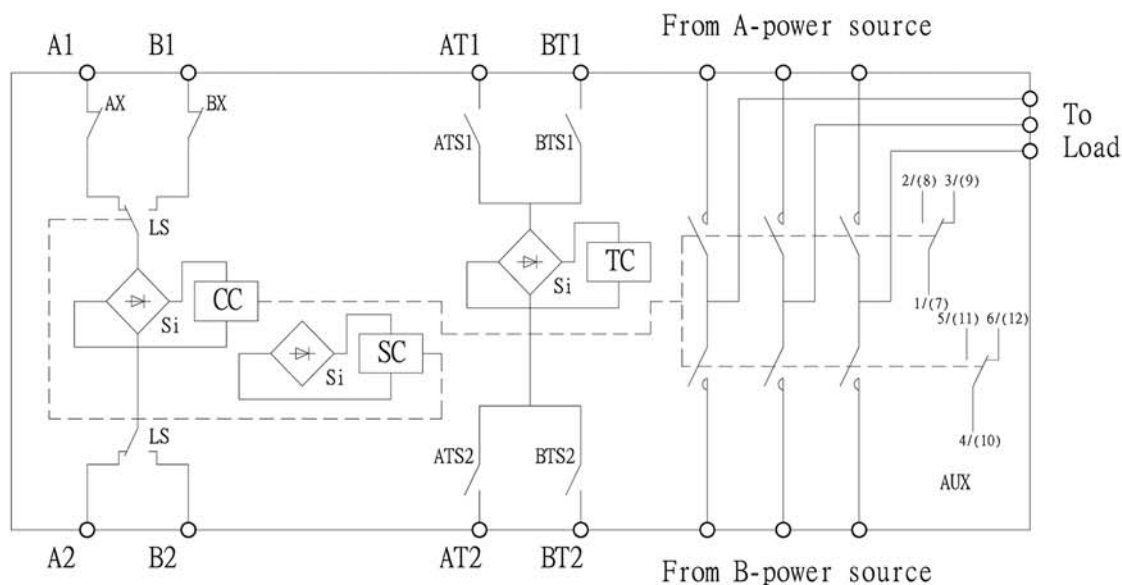
TYPE : TDS-3P2500



TYPE : TDS-4P2500



Internal circuit diagram



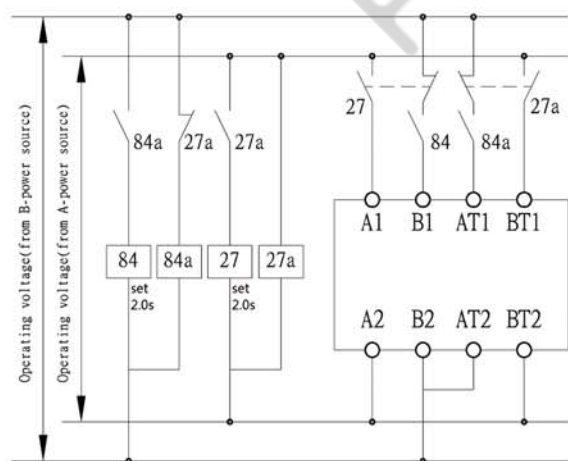
CC : Closing coil
 Si : Silicon rectifier
 LS : Selective switch
 ATS1.ATS2 : Trip control switch
 BTS1.BTS2 : Trip control switch
 AUX : Auxiliary switch
 AUX() : Additional purchase

AX、BX : Control switch
 SC : Selective coil
 TC : Trip coil

Operating Circuit Terminal
 A1-A2 : A-power source side
 B1-B2 : B-power source side
 AT1-AT2 : A-power Trip side
 BT1-BT2 : B-power Trip side

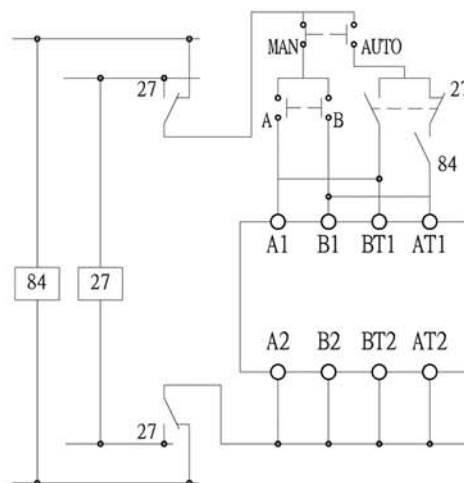
Representative control circuit

Standard changeover A priority



27a.84a: Volatge relay
 27 .84 : Time delay Volatge relay

In the case of using a changeover switch
 (Manual<-->Auto)



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2023.10 1000 pcs