## THL Fuse Disconnecting Switch(3P break simultaneously)

#### Scope of Application

THL series bar fuse disconnector is used in AC 50(60) Hz distribution unit 100mm or 185mm busbar system with rated voltage up to 690V and rated thermal current up to 1600A, it's mainly made as power supply switch and emergency switch as well as overload and short circuit protection of circuit, it has been widely used for distribution facility such as box transformer and cable branch box etc.

The product complies with standard of GB14048.3, IEC60947.3

#### Structure Feature

THL series bar fuse switch disconnector is mainly mounted in 100mm or 185mm busbar system, which integrates three single-pole fuse switch disconnectors in end-to-end arrangement. A contact blade seat of each phase is connected with one phase of busbar system, kinds of cable connection terminals are optional for cable outlet.

The holder carrying live part is made of high strength fibre reinforced plastic(FRP). Ag-plated fuse contact blade seat tightly connected with busbar ensures low power loss, low work temperature and high breaking capacity. Standard bolt is used for cable outlet, cable connection terminal can also added. The shell is fixed by rotation lock, which is easy for dismounting.

THL series bar fuse switch disconnector can be fixed by screw or hook. When it's mounted with hook, the busbar doesn't need punching, which makes the installation easier, more flexible and more reliable.





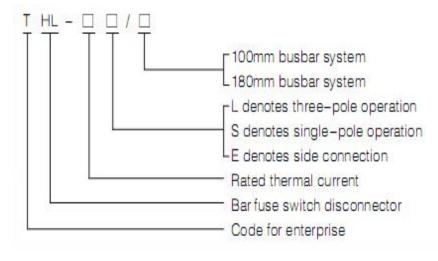


# Specification

Production No.	Model and specification Busbar system(mm)		Equipped fuse link	Note				
TL001	THL-160L/100	100 (注)	NH00(RT16-00)	Three-pole break				
TL002	THL-160L/185	185	NH00(RT16-00)	Three-pole break				
TL003	THL-160S/185	185	NH00(RT16-00)	Single-pole break				
TL004	THL-250L/185	185	NH1(RT16-1)	Three-pole break				
TL005	THL-250S/185	185	NH1(RT16-1)	Single-pole break				
TL006	THL-250LE/185	185	NH1(RT16-1)	Three-pole break, side connection				
TL007	THL-250SE/185	185	NH1(RT16-1)	Single-pole break, side connection				
TL008	THL-400L/185	185	NH2(RT16-2)	Three-pole break				
TL009	THL-400S/185	185	NH2(RT16-2)	Single-pole break				
TL010	THL-400LE/185	185	NH2(RT16-2)	Three-pole break, side connection				
TL011	THL-400SE/185	185	NH2(RT16-2)	Single-pole break, side connection				
TL012	THL-630L/185	185	NH3(RT16-3)	Three-pole break				
TL013	THL-630S/185	185	NH3(RT16-3)	Single-pole break				
TL014	THL-630LE/185	185	NH3(RT16-3)	Three-pole break, side connection				
TL015	THL-630SE/185	185	NH3(RT16-3)	Single-pole break, side connection				
TL016	THL-1600/185	185	NH4(RT17)	Single-pole break				

Note: through transfer device or 185mm system.

# Model and Description



## Technical Characteristics

	Туре				THL-160				THL-250				
			12.35	2001				Language of the Control				Carramon or con-	
Electric	Design opera		Ue	V		AC690					DC220	March 2 may be seen	
parameter	Design operating current		Le	Α	160	100	160	100	250	200	250	200	
	With fuse thermal current conversion		lth	Α	160	100	160	100	250	200	250	200	
	With fuse thermal current conversion		lth	Α	210A with TM00			400A with TM2					
	Design frequency		_	Hz	40-60 40-60			40-60 40-60 -					
	Design insulation voltage		Ui	V	AC690		AC690						
	Limiting design short circuit current		-	kAeff	50	50	25	25	80	80	25	25	
	Design instantaneous current (1s)		Low	kAeff	_		_	-	_	-	2	_	
	Usage categ			-	AC-22B		DC-21B			AC-22B			
	Design closing capacity		7.	Α	480	300	240	150	1200	600	375	300	
	Design break		-	Α	480	300	240	150	1200	600	375	300	
	Design impul		Uimp	٧	8	8	8	8	12	12	8	8	
	Electric life (s	witching times)	7	7.3	200	300	200	300	200	200	200	200	
	Total power loss at Lth (without fuse)		Pv	W	18	7	12	5	23	15	16	11	
Fuse	The size complies with GB13539.2, IEC60269.2		70	70			0				1		
	Max design current (gl/gG)		Ln	Α	160	100	160	100	250	200	250	200	
	Max allowable	e power loss (1s)	Pv	W		া	2			3	2		
Mechanism parameter	Mechanical life (switching times)		-	-		17	00		1400				
	Weight 1)		-	kg	100m	m=1,4	185m	m=2,4	4,9				
	Bus rail space		-	mm		100	/185		185				
Cable connection	Flat wire	Bolt diameter	-	-	R	N	18		M10/M12				
		Cable joint coupling(DIN43620)	-	mm²	1×	10-95(n	nax.25 w	idth)	1 × 25-150				
		Flat rail	_	mm	20×10				30×10				
		Starting torque	Ma	Nm		12	-15		30-35				
	Jointing	Jointing clamp section area		mm²		1,5-70Cu/ribbon6 x 9 x 0.8							
	clamp type	Starting torque	Ma	Nm	S00	N-SS-	2,6						
		Jointing clamp section area	1110	mm <sup>2</sup>	D 00	1			0				
	Jointing clamp type		Ma	Nm	P 00- 10-70 Al/Cu 70 26			<b>-</b>					
	1 1 1	Starting torque	IVIA		2000	0	2,6 35–95 Al/Cu			25-150/185-300		-000	
	Jointing clamp type	Jointing clamp section area	14.	mm²	P 00- 95	3			KM2G			-300	
	and the second second	otaring to que		95		2,6				40			
	Jointing	Jointing clamp section area		mm²	KU 00		10-95		KM2G-F	M2G-F 25-240			
	clamp type	Starting torque	Ma	Nm			15				40		
Protection	Front	Work state		-	IP30				IF	30			
method	Meter built-in	The front baffle plate shall be open	_	-		IF	10		IP10				
	A-b't t0)			~~		05			00.				
condition	Ambient temperature 2)			℃	-25 to +55				-25 to +55				
	Design work mode			_	Continuous work			Continuous work					
	Operation			-	Handle control			Handle control					
	Embedded type			-		Horizontal, vertical			Horizontal, vertical				
	Height			М	6	2000 and below				2000 and below			
	Level of pollution			-	3				3				
	Level of over voltage			-						IV			

Note: 1) Not containing package 2) Normal temperature is 35°C ,the operating current shall drop when reaching 55°C .

Туре					THL-400				THL-630				
	All the state of the state of the						21270 010				2/2/07/07		
Electric parameter	Design opera		Ue	٧						AC690			
parameter	Design operating current		Le	A	400	315	400	315	630	500	630	500	
	With fuse thermal current conversion		lth	Α	400	315	400	315	630	500	630	500	
	With fuse thermal current conversion		lth	Α	630A with TM3				800A with TM3/1250				
	Design frequency			Hz	40-60 40-60			40-60 40-60					
	Design insula	Ui	٧	AC690			AC690						
	Limiting desi	17-2	kAeff	80	80	25	25	80	80	25	25		
	Design instar	Low	kAeff	_	-	_	-	-	-	_	_		
	Usage categ			-		AC-22B				AC-22B			
	Design closin		7.0	Α	1890	945	600	475	2400	1500	945	750	
		king capacity	_	Α	1890	945	600	475	2400	1500	945	750	
	Design impul		Uimp	٧	12	12	8	8	12	12	8	8	
	Electric life (s	switching times)	7	-	200	200	200	200	200	200	200	200	
	Total power l	oss at Lth (without fuse)	Pv	W	49	30	33	21	110	70	74	47	
Fuse	The size complies with GB13539.2, IEC60269.2		_	2		2			3				
	Max design current (gl/gG)		Ln	Α	400	315	400	315	630	500	630	500	
	Max allowable power loss (1s)		Pv	W	45			48					
							100				200		
Mechanism parameter	Mechanical life (switching times)		-	-		1400				1000			
paramotor	Weight 1)		-	kg	4, 9				5, 6				
	Bus rail space		-	mm	185				185				
Cable	Flat wire	at wire Bolt diameter		-		M12				M12			
connection		Cable joint coupling(DIN43620)	-	mm2		1 × 25-240			1 x 25-300(max.43 widht) 30 x 10				
		Flat rail	_	mm	20×10								
		Starting torque	Ma	Nm	35–40			35–40					
	Jointing	Jointing clamp section area	-	mm2	25		-150/185-300		25		-150/185-300		
	clamp type	Starting torque	Ma	Nm	KM2G	40		KM2G	2G 40				
	Jointing clamp type	Jointing clamp section area	-	mm2	KM2G		25–240		KM2G		25-240		
		Starting torque	Ma	Nm	-F				-F	INEG			
									***				
Protection	Front	Work state		-		IP30			IP30				
method	hod Meter built-in The front baffle plate shall be open		5T-8	,T-0	IP10			IP10					
	* 11 11		-	20		05.				05.			
condition	Ambient temperature 2)		Tu	℃	-25 to +55			-25 to +55					
	Design work mode		.73	7.0		Continuous work			Continuous work				
	Operation		-	-	Handle control			Handle control					
	Embedded type		-	-	Horizontal, vertical			Horizontal, vertical					
	Height		578	М		2000 and below			2000 and below				
	Level of pollution		_	_	3			3					
	Level of over			IV				IV					

Note: 1) Not containing package 2) Normal temperature is 35°C , the operating current shall drop when reaching 55°C .

### **Outline Dimension**

