

Functions and Characteristics





Type of control: Type A: LED, Type B: LED digital tube, Type C: LCD

Product structure: Small size, large current, simple structure and ATS integration

Features: Fast switching speed, low failure rate, convenient maintenance and reliable performance

(with automatic switching time adjustable in 0 s-255 s)

Wiring method: Grid-to-grid, grid-to-generator, automatic charge and automatic recovery, automatic

charge without automatic recovery, and mutual standby

Product shell frame: 63, 125, 250, 630, 800, 1,250, 1,600

Product current: 20, 32, 40, 50, 63, 80, 100, 125, 160, 200, 225, 250, 315, 350, 400, 500, 630, 700, 800,

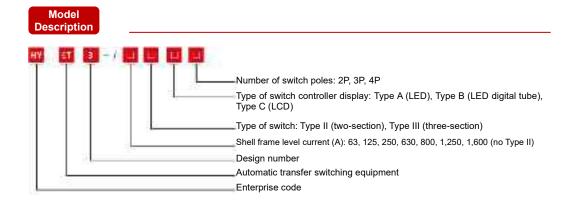
1,000, 1,250, 1,600 A

Product classification: Two-section without double off position and three-section with middle double off position

Number of poles: 2, 3, 4

Product standard: GB/T14048.11

ATS level: PC





- The ambient temperature shall be -5°C-+40°C; and the average temperature within 24 hours shall not exceed +35°C. The relative humidity at the highest temperature of +40°C shall not exceed 50%, and a higher relative humidity is allowed at a lower temperature. For example, 90% humidity at +20°C, but condensation may occur due to temperature change, which shall be considered.
- · The altitude of the installation location shall not exceed 2,000 m, and the category shall be Class IV.
- The inclination shall not be more than ±23°C.
- The contamination grade shall be Grade 3.
- If the above conditions cannot be met, please consult the manufacturer when ordering.



Functions and Characteristics



The HYET3 Dual-power (main and standby) Automatic Transfer Switching Equipment adopts electromagnetically driven and electromechanical interlocking mechanism. The main circuit contacts are of static and dynamic structures, and the moving contacts are of V-type design. To avoid long-term electrification of the electromagnetic coil, electric closing and mechanical holding are adopted. Therefore, the operating mechanism does not need to provide the working current under steady-state working conditions, which has a remarkable energy saving effect. The control power supply is from the AC 220 V main and standby power supplies (without additional control current). Due to its superior structural features, the main and standby power supplies will not be switched on at the same time, which ensures that the common and standby power supplies work reliably and do not interfere with each other. The switch has the electric or mechanical closing instruction, and it can also provide customers with normally open and normally closed passive contacts for other purposes.

The intelligent controller simultaneously provides many functions such as voltage loss, undervoltage, overvoltage, transfer delay control, generator signal control, and feedback signal, and has strong anti-interference ability. It has three transfer modes including automatic charge and automatic recovery, automatic charge without automatic recovery, and mutual standby.

The two-section switch has two stable working positions: common power supply closing, standby power supply opening; and common power supply opening and standby power supply closing.

The three-section switch has three stable working positions: common power supply closing, standby power supply opening; common power supply opening and standby power supply opening; and common power supply opening and standby power supply closing.

Simple and convenient installation. Manual transfer can be carried out with special handle in the manual state.

Main Technical Parameters

Name	Model	HY ET 3-63	HY ET 3 -125	HY ET 3 -250	HY ET 3 -630	HY ET 3 -800	HY ET 3-1250	HY ET 3 -1600							
Use category		H: AC-33A; De	efault: AC-33B	H: AC	C-33iA; Default: AC	C-33B	AC-	33iB							
Rated working voltage	e Ue	AC 230	V (2P) AC 400 \	/ (3/4P)		AC 4	400V								
Rated insulation volta	ige Ui		AC 800 V												
Rated impulse withsta	and voltage Uimp				8 kV										
Rated limited short-ci	rcuit current Iq) kA												
Coming life (Airean)	Mechanical			6,000			5,0	000							
Service life (times)	Electrical			1,500			1,0	000							
			2				1								
Number of poles					3										
					4										
Operation cycle (sec/	time)		30) s			60 s								
Switching time					0–255 s										



Functions and Characteristics



Details of controller parameter function

utomatic operation andie operation I I I I I I I I I I I I I I I I I I I	Type of control		Type A	Type B	Type C
andle operation ontroller key	Installation mode		Integra	ted	Integrated/split type
controller key operation ommunication remote control (485) ommunication remote control (485) fonitor common overvoltage fonitor common undervoltage fonitor common voltage loss fonitor common voltage loss A/B/C three-phase A/B/C three	Automatic operat	ion	•		
Common remote control (485) Intercommon overvoltage ABC three-phase ABC	Handle operation				
Ionitor common overvoltage Ionitor common undervoltage Ionitor common undervoltage Ionitor common undervoltage Ionitor common voltage loss Ionitor common voltage loss Ionitor common voltage loss Ionitor common phase loss Ionitor standby voervoltage Ionitor standby undervoltage Ionitor standby undervoltage Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby voltage loss Indicate loss Indicat	Controller key op	eration	•		•
Ionitor common undervoltage loss Individual common voltage loss Individual common phase Individual common phase Individual common phase Individual comm	Communication r	remote control (485)	-		•
Ionitor common voltage loss Ionitor common phase loss Ionitor common phase loss Ionitor common phase loss Ionitor standby undervoltage Ionitor standby undervoltage Ionitor standby undervoltage Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby phase loss Ionitor s	Nonitor common	overvoltage	A/B/C three	e-phase	A/B/C three-phase
Ionitor common phase loss Ionitor standby overvoltage Ionitor standby overvoltage Ionitor standby overvoltage Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby voltage loss Ionitor standby phase loss Ionitor standby undervoltage setting (V) Individual standby Ionitor standby undervoltage setting (V) Ionitor standby undervoltage Ionitor standby u	Nonitor common	undervoltage	A/B/C three	e-phase	A/B/C three-phase
Control standby overvoltage	Monitor common	voltage loss	A/B/C three	e-phase	A/B/C three-phase
Ionitor standby undervoltage loss	Monitor common	phase loss	A/B/C three	e-phase	A/B/C three-phase
A phase	Monitor standby	overvoltage	A pha	se	A/B/C three-phase
A phase A ph	Monitor standby	undervoltage	A pha	se	A/B/C three-phase
utomatic charge and automatic recovery utomatic charge without automatic recovery lutual standby utomatic charge without automatic recovery lutual standby Default 170 V Default 170 V (Adjustable range: 130-200 V) common standby undervoltage setting (V) Default 265 V Default 265 V (Adjustable range: 250-300 V) ransfer delay time setting 0-5 s 0-90 s Tansient dwell time type (III) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 250-300 V) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 250-300 V) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 250-300 V) Tansient dwell time type (III) Default 170 V (Adjustable range: 130-200 V) Default 265 V Default 265 V (Adjustable range: 130-200 V) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 130-200 V) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 130-200 V) Tansient dwell time type (III) Tansient dwell time type (III) Default 265 V Default 265 V (Adjustable range: 130-200 V) Tansient dwell time type (III) Tansient dwell tim		-	·		
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Litural standby Litural st		·			
Common standby undervoltage setting (V) Default 170 V Default 265 V Default 26	utomatic charge	e without automatic recovery	•		•
Common standby overvoltage setting (V) Default 265 V Default 265 V Default 265 V Adjustable range: 250–300 V) ransfer delay time setting 0-5 s 0-90s ransient dwell time type (II)	Mutual standby		-		•
Transfer delay time setting	Common standby	y undervoltage setting (V)	Default 170 V	Default 170 V	(Adjustable range: 130-200 V)
Common power supply closing Common power supply Common power voltage Common power supply closing Common power supply c	ommon standby	v overvoltage setting (V)	Default 265 V	Default 265 V	(Adjustable range: 250–300 V)
Common standby power supply	ransfer delay tir	ne setting	0-5 s		0-90s
The turn delay time setting	ransient dwell ti	me type (II)		-	
Controller panel display Common power supply opening/closing Standby power supply opening/closing Common power voltage Common power voltage Standby power voltage Fault alarm display Fire control linkage type (III) Display mode Common power supply closing Common power voltage Fault alarm display Fire control linkage type (III) Display mode Common power supply closing Common power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (III) Fire control linkage feedback signal type (I) Fire control linkage feedback signal type (III)	ransient dwell ti	me type (III)	0-90 s	0-99 s	0-255 s
Common power supply opening/closing Standby power supply opening/closing Common power voltage Common power voltage Standby power voltage Standby power voltage Fault alarm display Fire control linkage type (II) Display mode Common power voltage LED (light-emitting diode) LED digital tube LCD (Chinese) Common power supply closing Standby power supply closing Standby power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (III) Fire control linkage feedback signal type (I) Fire control linkage feedback signal type (III)	eturn delay time	e setting	0-5 s	0-90 s	0-90 s
Standby power supply opening/closing		Common standby power supply			
Controller panel display Standby power voltage		Common power supply opening/closing			
Standby power voltage Fault alarm display Fire control linkage type (II) Display mode Common power supply closing Standby power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (II) User external port Fire control linkage type (II) Fire control linkage type (II) Fire control linkage type (II) Fire control linkage feedback signal type (II) Fire control linkage feedback signal type (III)		Standby power supply opening/closing	•		•
display Fault alarm display Fire control linkage type (II) Fire control linkage type (III) Display mode LED (light-emitting diode) LED digital tube LCD (Chinese) Common power supply closing Standby power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (III) Fire control linkage type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Common power voltage	-	•	•
Fault alarm display Fire control linkage type (II) Fire control linkage type (III) Display mode LED (light-emitting diode) LED digital tube LED (chinese) Common power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (III) Fire control linkage type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Standby power voltage	-	•	•
Fire control linkage type (III) Display mode LED (light-emitting diode) LED digital tube LCD (Chinese) Common power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (II) Fire control linkage type (III) Fire control linkage feedback signal type (I) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)	,	Fault alarm display	•		•
Display mode Common power supply closing Standby power supply closing Generator control (passive) Fire control linkage type (III) Fire control linkage feedback signal type (III)		Fire control linkage type (II)		-	
Common power supply closing Standby power supply closing Generator control (passive) User external port Fire control linkage type (III) Fire control linkage feedback signal type (II) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Fire control linkage type (III)	•		
Standby power supply closing Generator control (passive) Fire control linkage type (II) Fire control linkage type (III) Fire control linkage feedback signal type (I) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Display mode	LED (light-emitting diode)	LED digital tube	LCD (Chinese)
Generator control (passive) Fire control linkage type (II) Fire control linkage feedback signal type (II) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Common power supply closing	•		•
User external port Fire control linkage type (II) Fire control linkage feedback signal type (II) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III) Fire control linkage feedback signal type (III)		Standby power supply closing			
Oser external port Fire control linkage type (III)		Generator control (passive)			
Fire control linkage type (III) Fire control linkage feedback signal type (I) Fire control linkage feedback signal type (III)	User external	Fire control linkage type (II)		-	
Fire control linkage feedback signal type (III)		Fire control linkage type (III)	•		
. To control initiago to capital type (III)		Fire control linkage feedback signal type (I)		-	
					•
		Communication port (485)	_		

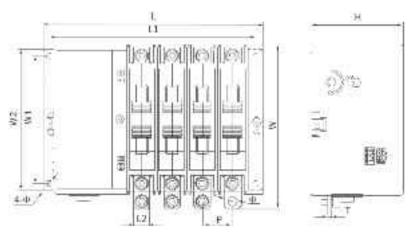
Note: "■" means this function is available, and "-" means this function is not available.



Functions and Characteristics

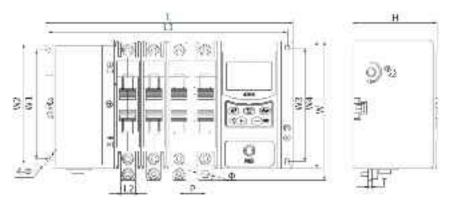


① Two-section type outline and installation dimensions



Type A and B outline and installation dimensions

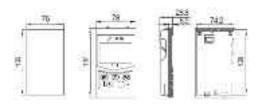
		(Outline d	imensior	1			Installa	ation dim	ension		Copper bar dimension				
Product model		L		W	W2	Н		L1		W1	4- Ф	L2	_	Р	Φ	
	2P	3P	4P	VV	VVZ	П	2P	3P	4P	VVI	4- Ψ	L2	'	Р	Ψ	
HYET3-63 II A/B	170	194	218	195	168	112	156	180	204	152	7	12	2	24	6.5	
HYET3-125 II A/B	180	210	240	195	168	112	166	196	226	152	7	15	2.5	30	8.5	
HYET3-250 II A/B	196	232	268	195	168	112	182	218	254	152	7	20	4	36	8.5	
HYET3-630 II A/B	297	357	417	284	226	138	276	336	396	206	9	40	5	60	13	



Type C outline and installation dimensions

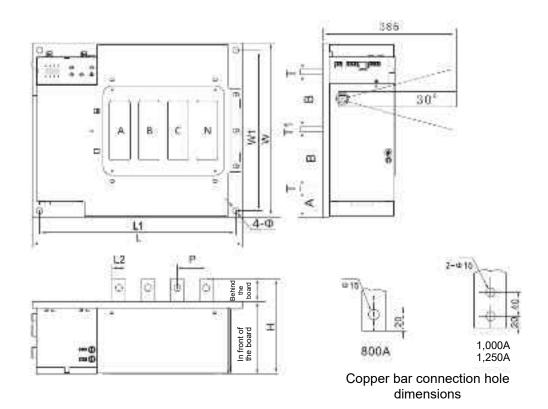


Functions and Characteristics



Type C split controller outline and installation dimensions: Mounting hole: 75×130

			Outli	ne dimer	nsion				Ins	stallation	dimensi		Copper bar dimension				
Product model				w	W2	W4	Н		L1		W1	W3	4- Ф	L2	_	Р	Ф
	2P	3P	4P	VV	VVZ	VV4	П	2P	3P	4P	VVI	VVS	4- Ψ	LZ	'	-	Ψ
HYET3-63 II C	256	280	304	195	168	170	112	242	266	290	152	160	7	12	2	24	6.5
HYET3-125 II C	266	296	326	195	168	170	112	252	282	312	152	160	7	15	2.5	30	8.5
HYET3-250 II C	282	318	354	195	168	170	112	268	304	340	152	160	7	20	4	36	8.5
HYET3-630 II C	388	449	510	284	226	226	143	368	429	490	206	206	9	40	5	60	13

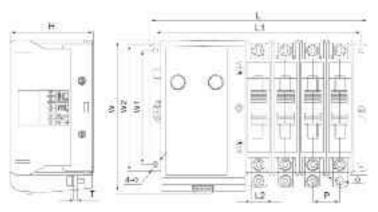


		Outline d	limension			In	stallation	dimensi	on		Copper bar dimension								
Product model	ı	_			L1				In front	Behind						Р			
i reduct model	3P	4P	W	Н	3P	4P	W1	4 -Ф	of the board	the board	Α	В	L2	Т	T1	A-B phase C-N phase	B-C phase		
HYET3-800	405	470	390	210	373	438	358	Ф14	160	50	60	117	30	12	15	65	65		
HYET3-1250	450	530	390	250	418	498	358	Ф14	160	90	58	117	50	12	15	80	80		



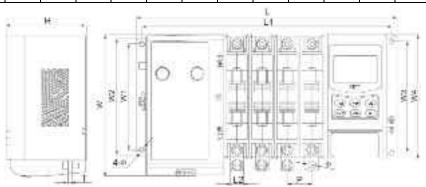
Functions and Characteristics

② Three-section type outline and installation dimensions

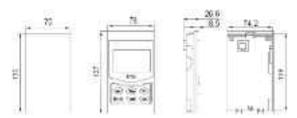


Type A and B outline and installation dimensions

		(Outline d	imensior	1			Installa	ation dim	ension	Copper bar dimension				
Product model	L			W	W2	Н	L1			W1	1.6	2	+	D	
	2P	3P	4P	٧٧	VVZ	П	2P	3P	4P	VVI	4- Ф	L2	'		Ф
HYET3- 63 III A/B	196	220	244	203	168	112	182	206	230	152	7	12	2	24	6.5
HYET3- 125 III A/B	206	236	266	203	168	112	192	222	252	152	7	15	2.5	30	8.5
HYET3- 250 III A/B	222	268	294	203	168	112	208	244	280	152	7	20	4	36	8.5
HYET3- 630 III A/B	297	357	417	284	226	138	276	396	396	206	9	40	5	60	13



Type C outline and installation dimensions



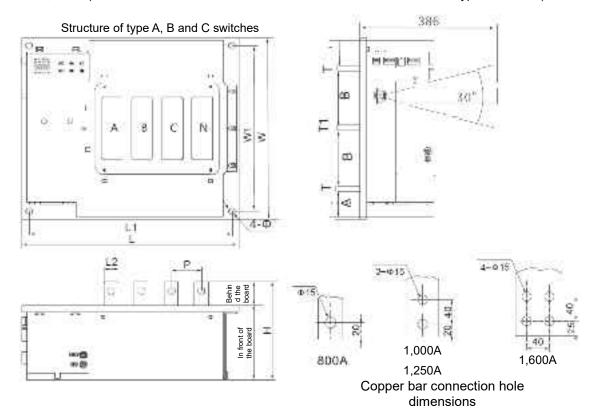
Type C split controller outline and installation dimensions: Mounting hole: 75×130

			Outli	ne dimer	nsion	n.	n.		Ins	stallation	dimensi		Copper bar dimension				
Product model		L		w	W2	W4	н	L1			W1	W3	4- Ф	L2	_	D	Φ
	2P	3P	4P	VV	VVZ	VV4	П	2P	3P	4P	VVI	VV3	4- Ψ	L2	'	P	Ψ
HYET3-63 III C	282	306	330	203	168	178	118	268	292	316	152	160	7	12	2	24	6.5
HYET3-125 III C	292	322	352	203	168	178	118	278	308	338	152	160	7	15	2.5	30	8.5
HYET3-250 III C	308	344	380	203	168	178	118	294	330	366	152	160	7	20	4	36	8.5
HYET3-630 III C	388	449	510	284	226	226	143	368	429	490	206	206	9	40	5	60	13



Functions and Characteristics

8.2 HYET3-800–1,250 A, (installed behind the board, with the same installation dimensions for Type A, B and C)



		Outline d	imension		In	on		Copper bar dimension									
Product model		L		Н	L1				In front	Behind						Р	
	3P	4P	W		3P	4P	W1	4-Ф	of the board	the board	Α	В	L2	Т	T1	A-B phase C-N phase	B-C phase
HYET3-800	405	470	390	210	373	438	358	Ф14	160	50	60	117	30	12	15	65	65
HYET3-1250	450	530	390	250	418	498	358	Ф14	160	90	58	117	50	12	15	80	80
HYET3-1600	509	610	390	255	477	578	358	Ф14	160	95	55	117	75	15	15	101	101