

Rating

Standard ATS WN Type

100A ~ 3000A



New model with improved insulated feature and safety
Neutral Point Mode added
A → Neutral(off) → B

Features

Full insulated feature

The breaking part is fully enclosed in a mold structure to completely prevent electrical accidents due to the insulation degradation resulting from an electric shock due to a physical contact or attachment of dust or foreign substances when used for a long time.

Safe Conduction

All phases are designed to have a certain contact pressure which allows them to maintain a safe conducting performance. It is protected by Latch device so the intensity of the over-current is high in case of a short circuit.

Sophisticated Design

Each phase is fully insulated and is in an independent 1-phase structure. According to the convenience of users, the conduction parts of 3-phase and 4-phase can be combined depending on the capacity and the number of phases.

One-coil Mode

It is a Compact Type where closing of commercial power and reserved power is possible with 1 closing coil.

Safe Open Feature

By adopting a unique-structured arc shute, the operational cycle is semi-permanent because the arc breaking time is short and the contact consumption is little. A stable breaking can always be implemented regardless of the operating voltage by applying a trip operation that uses a breaking spring.

Neutral Point Mode

After checking the stability and safety of the circuit, Neutral Point ("OFF" state) is possible due to the trip structure for the transfer mode. That is, operation by A → off → B, B → off → A as well as A → off → A, B → off → B and instantaneous transfer are possible.

Saving Power

It is in an instantaneous excitation mode with very little power consumption. The contact pressure is protected by Latch device so the intensity of the over-current is high in case of a short circuit. By adopting a unique-structured arc shute, the operational cycle is semi-permanent because the arc breaking time is short and the contact consumption is little.

Various Products

There are various products with the rated voltage and current up to 600V, 100-3000A and they are molded in a dust-proof structure. DC load switch is also possible.

Breaking Feature

A stable breaking can always be implemented regardless of the operating voltage by applying a trip operation that uses a breaking spring.

Type		61WN	62WN	64WN							
Rated Current	AC33B	A	100	200	400						
	AC31B	A	150	300	600						
Rated voltage		V	AC600, DC125	AC600, DC125	AC600, DC125						
Poles		P	2, 3, 4	2, 3, 4	2, 3, 4						
Throw		T	Double Throw	Double Throw	Double Throw						
Connection Method	Front		●	●	●						
	Back		●	●	●						
Short Circuit Withstand											
With Circuit Limiting Fuses		kA	200	200	200						
With any Circuit Breaker		kA	10	10	35						
With Specific Circuit Breaker		kA	25	25	45						
Switch Capacity		Class	AC33B	AC33B	AC33B						
Operational Cycle	Electrical	Times	50,000	50,000	50,000						
	Mechanical	Times	250,000	250,000	250,000						
Switch Frequency		Times /hr	150(No.4)	150(No.4)	150(No.4)						
Transfer Sequence			A→B,A→Neutral(off)→B								
Operation Time	A	closing	msec	≤55	≤55	≤55					
		power trip	msec	≤20	≤20	≤20					
	B	closing	msec	≤80	≤80	≤80					
		power trip	msec	≤20	≤20	≤20					
Operating Voltage & Current			2P	3P	4P	2P	3P	4P	2P	3P	4P
closing	DC110V	A	4	4	5	4	4	5	5	5	7.2
	AC100/110V	A	4	4	5	4	4	5	5	5	7.2
	AC200/220V	A	2	2	2.5	2	2	2.5	2.5	2.5	3.6
Trip	AC/DC110V	A	1.4			1.4			1.4		
	AC220V	A	0.7			0.7			0.7		
External Size & Weight											
Front Size(mm)		H	192	192	192	192	192	233	233	233	
		W	218	254	290	218	254	290	248	299	350
		D	118	118	118	118	118	118	118	118	118
Back Size(mm)		H	174	174	174	174	174	208	208	208	
		W	218	254	290	218	254	290	248	299	350
		D	139	139	139	139	139	139	156	156	156
Weight	Front	kg	4.5	6	8	4.5	6	8	7.5	9	10.5
	Back	kg	4.5	6	8	4.5	6	8	6	8	10
Other Detailed Info											
Circuit diagram			A6-19			A6-19			A6-19		
Contact Time chart			A6-18			A6-18			A6-18		
Drawing			A6-24			A6-24			A6-25		
Precautions			A6-14			A6-14			A6-14		

(1) AC33B: Motor load or total system load

(2) AC31B: Incandescent lamp control or resistive load

(2) Trip: A circuit is opened to the Neutral Position at OFF state in A or B power



Automatic Transfer Switch

A6
Automatic Transfer Switch

	66WN		68WN		610WN		612WN		616WN		620WN		625WN		630WN	
	600		800		1000		1200		1600		2000		2500		3000	
	800		1000		1200		1400		1800		2500		3000		3500	
	AC600, DC125		AC600, DC125		AC600, DC125		AC600, DC125		AC600, DC125		AC600, DC125		AC600, DC125		AC600, DC125	
	3, 4		3, 4		3, 4		3, 4		3, 4		3, 4		3, 4		3, 4	
	Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw	
	●		●		●		●		●		-		-		-	
	●		●		●		●		●		●		●		●	
	200		200		200		200		200		200		200		100	
	35		50		50		50		85		85		100		250	
	65		65		65		65		85		100		100		100	
	AC33B		AC33B		AC33B		AC33B		AC33B		AC33B		AC33B		AC33B	
	50,000		10,000		10,000		10,000		10,000		5,000		5,000		5,000	
	250,000		50,000		50,000		50,000		50,000		10,000		10,000		10,000	
	150(No.4)		150(No.4)		150(No.4)		150(No.4)		150(No.4)		30(No.5)		30(No.5)		30(No.5)	
	A↔B,A↔Neutral(off)↔B															
	≤60		≤100		≤100		≤115		≤115		≤140		≤180		≤180	
	≤20		≤30		≤30		≤30		≤30		≤35		≤35		≤35	
	≤90		≤135		≤135		≤145		≤145		≤190		≤220		≤220	
	≤25		≤30		≤30		≤30		≤30		≤35		≤35		≤35	
	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
	6.4	9	8	10	8	10	8	10	8	10	13	16	13	16	16	18
	6.4	9	8	10	8	10	8	10	8	10	13	16	13	16	16	18
	3.2	4.5	4	5	4	5	4	5	4	5	6.5	8	6.5	8	8	9
	3		3		3		4		4		4		4		4	
	1.5		1.5		1.5		2		2		2		2		2	
	278	278	298	298	298	298	535	535	535	535	-	-	-	-	-	-
	340	400	400	480	400	480	453	536	453	536	-	-	-	-	-	-
	143	143	143	143	143	143	228	228	228	228	-	-	-	-	-	-
	248	248	267	267	267	267	380	380	380	380	380	380	380	380	380	380
	340	400	400	480	400	480	453	536	453	536	528	636	603	736	603	736
	171	171	173	173	173	173	256	256	256	256	256	256	256	256	256	256
	15	18	20	24	21	25	52.5	63.5	58	69	-	-	-	-	-	-
	14	17	19	23	20	24	50	60	55	65	65	85	92.5	119	92.5	119
	A6-19		A6-19		A6-19		A6-19		A6-19		A6-19		A6-19		A6-19	
	A6-18		A6-18		A6-18		A6-18		A6-18		A6-18		A6-18		A6-18	
	A6-26		A6-26		A6-26		A6-27		A6-27		A6-27		A6-28		A6-28	
	A6-14		A6-14		A6-14		A6-14		A6-14		A6-14		A6-14		A6-14	