Ratings

Standard ATS WN Types

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.

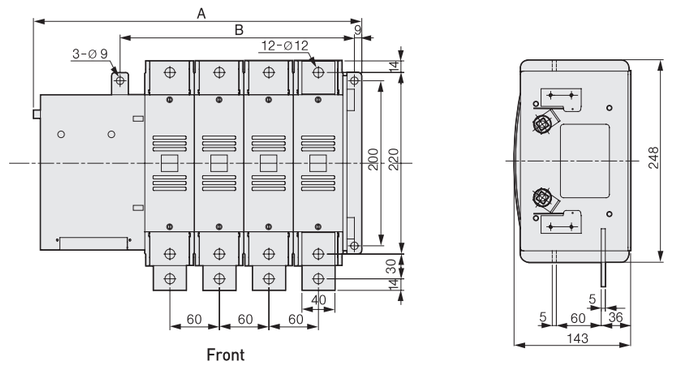
Type			61WN			62WN			64WN			66WN		68WN		610WN		612WN		616WN		620WN		625WN		630WN	
Rated Current(In)		A	100			200			400			600		800		1000		1200		1600		2000		2500		3000	
Rated Voltage(Ue)		V	AC600			AC600			AC600			AC600		AC600		AC600		AC600		AC600		AC600		AC600		AC600	
Rated Insulation Voltage(Ui)		V	AC800			AC800			AC800			AC800		AC800		AC800		AC800		AC800		AC800		AC800		AC800	
Rated Impulse Voltage(Uimp)		kV	8			8			8			8		8		8		8		8		8		8		8	
Pole		P	2, 3, 4			2, 3, 4			2, 3, 4			3, 4		3, 4		3, 4		3, 4		3, 4		3, 4		3, 4		3, 4	
Throw		T	Double Throw			Double Throw			Double Throw			Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw		Double Throw	
Connection Type	Front		●			●			●			●		●		●		●		●		-		-		-	
	Back		●			●			●			●		●		●		●		●		●		●		●	
Performance																											
Short Time Current(1s) Icw		kA	5			10			12			15		22		22		25		32		40		50		50	
Short Circuit Peak Current Icm		kA	5			10			12			15		22		22		25		32		40		50		50	
With Specific Circuit Breaker		kA	14			25			35			42		50		50		65		65		85		85		85	
Fuse Mounting		kA	200			200			200			200		200		200		200		200		200		200		200	
Switch Capacity Note1)		Class	AC-33B			AC-33B			AC-33B			AC-33B		AC-33B		AC-33B		AC-33B		AC-33B		AC-33B		AC-33B		AC-33B	
Endurance	Electrical	Cycles	5,000			5,000			5,000			5,000		5,000		5,000		5,000		5,000		3,000		3,000		3,000	
	Mechanical	Cycles	10,000			10,000			10,000			10,000		10,000		10,000		10,000		10,000		5,000		5,000		5,000	
Transfer Sequence			A ↔ B, A ↔ Neutral(off) ↔ B											A ↔ B, A ↔ Neutral(off) ↔ B													
Operation Time	Closing	msec	≤55			≤55			≤55			≤100		≤100		≤100		≤150		≤150		≤180		≤180		≤180	
	Trip	msec	≤20			≤20			≤20			≤30		≤30		≤30		≤30		≤30		≤35		≤35		≤35	
Conditions of Uninterruptible Transfer			2P	3P	4P	2P	3P	4P	2P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P	3P	4P
Closing	AC/DC 110V	A	7	7	7	7	7	7	8	8	8	8	10	10	10	10	10	8	10	8	10	13	16	-	-	-	-
	AC 220V	A	3.5	3.5	3.5	3.5	3.5	3.5	4	4	4	4	5	5	5	5	5	4	5	4	5	6.5	8	12	15	12	15
Trip Note2)	AC/DC 110V	A	3			3			3			4		4		4		4		4		4		-		-	
	AC 220V	A	1.5			1.5			1.5			2		2		2		2		2		2		2		2	
Dimensions & Weights																											
Front Size (mm)		H	192	192	192	192	192	192	254	254	254	278	278	298	298	298	298	534.5	534.5	534.5	534.5	-	-	-	-	-	-
		W	215	251	287	215	251	287	245	296	347	340	400	400	480	400	480	452.5	535.5	452.5	535.5	-	-	-	-	-	-
		D	118	118	118	118	118	118	119	119	119	143	143	143	143	143	143	228	228	228	228	-	-	-	-	-	-
Back Size (mm)		H	174	174	174	174	174	174	208	208	208	248	248	267	267	267	267	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5	378.5
		W	215	251	287	215	251	287	245	296	347	340	400	400	480	400	480	452.5	535.5	452.5	535.5	527.5	635.5	502.5	735.5	602.5	735.5
		D	143	143	143	143	143	143	163	163	163	177	177	178	178	178	178	261	261	261	261	261	261	326	326	326	326
Weight	Front	kg	4.5	6	8	4.5	6	8	7.5	9	10.5	15	18	20	24	21	25	52.5	63.5	58	69	-	-	-	-	-	-
	Back	kg	4.5	6	8	4.5	6	8	6	8	10	14	17	19	23	20	24	50	60	55	65	65	85	92.5	119	92.5	119
Additional Product Information																											
Circuit diagram			A6-19			A6-19			A6-19			A6-19		A6-19		A6-19		A6-19		A6-19		A6-19		A6-19		A6-19	
Time chart			A6-18			A6-18			A6-18			A6-18		A6-18		A6-18		A6-18		A6-18		A6-18		A6-18		A6-18	
Drawing			A6-24			A6-24			46-25			A6-26		A6-26		A6-26		A6-27		A6-27		A6-27		A6-28		A6-28	
Precautions			A6-14			A6-14			A6-14			A6-14		A6-14		A6-14		A6-14		A6-14		A6-14		A6-14		A6-14	

* Note1] Switching Capacity : AC-33B :
Overcurrent Switching Performance (Closing 10×Ie, Breaking 10×Ie, CosØ = 0.35),
Rated Load Switching Performance (Closing 1×Ie, Breaking 1×Ie, CosØ = 0.8
* Note2] Trip : The switch in the circuit is opened to the neutral position (OFF) at Power A or B.

External Sizes

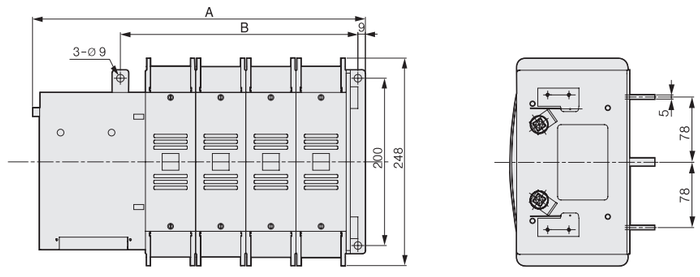
Low Voltage Automatic Transfer Switch ATS, CTTS

WN Type 66WN



Front

Type	A	B
3P	340	224
4P	400	284

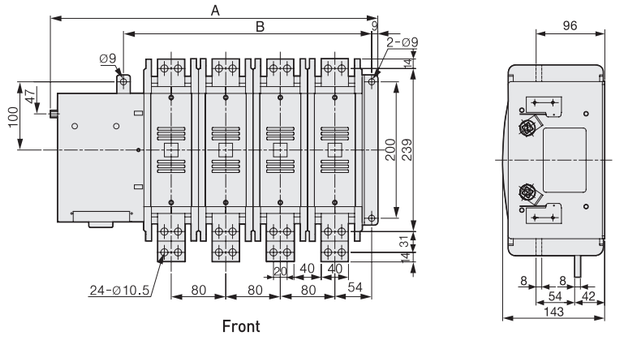


Back

Type	A	B
3P	340	224
4P	400	284

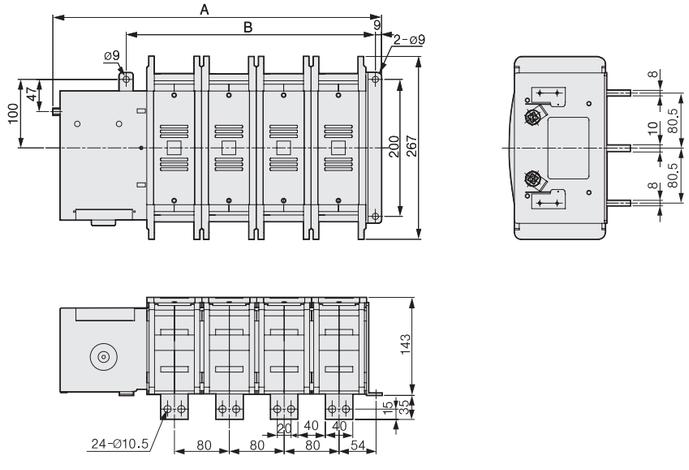
Low Voltage Automatic Transfer Switch ATS, CTTS

WN Type 68WN



Front

Type	A	B
3P	400	284
4P	480	364



Back

Type	A	B
3P	400	284
4P	480	364