



ATS WN - C Type

1250A ~ 3200A



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 semipermanent 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			C60125WN	
Rated Current (In)		A	1250	
Rated Operational Voltage (Ue)		V	AC600	
Rated Insulation Voltage (Ui)		V	AC800	
Rated Impulse Withstand Voltage (Uimp)		kV	8	
Number of Poles		P	3, 4	
Number of Throw		T	(Double Throw)	
Connection Type	Front			
	Back		●	
Performance				
Rated Short Time Current (1sec)		I _{cw} kA	25	
Rated Short-circuit Closing Current		I _{cm} kA	25	
With breakers (SPCD)		kA	50	
With fuses		kA	200	
Switching Capability		Class	AC-33B	
Life Time	Electrical	Number	5,000	
	Mechanical	Number	10,000	
Switchover Sequence			A ↔ B, A ↔ Neutral(Off) ↔ B	
Run Time	closing	msec	≤ 150	
	trip	msec	≤ 30	
Operating Voltage and Current (rms)			3P	4P
closing	DC110V	A	11	11
	AC220V	A	6	6
(trip)	DC110V	A	4	
	AC220V	A	2	
External Dimensions and Weight				
Front Size (mm)		H	-	-
		W	-	-
		D	-	-
Back Size (mm)		H	485	485
		W	329	412
		D	416	416
Weight	Front	kg	-	-
	Back	kg	50	60
Additional Product Information				
Circuit diagram			A6-22	
Time chart			A6-20	
Drawing			A6-32	
Precautions			A6-18	

* Note1) Switching Capacity : AC-33B :

Overcurrent Switching Performance (Closing 10×I_e, Breaking 10×I_e, CosØ = 0.35),

Rated Load Switching Performance (Closing 1×I_e, Breaking 1×I_e, CosØ = 0.8

* Note2) Trip : The switch in the circuit is opened to the neutral position (OFF) at Power A or B.

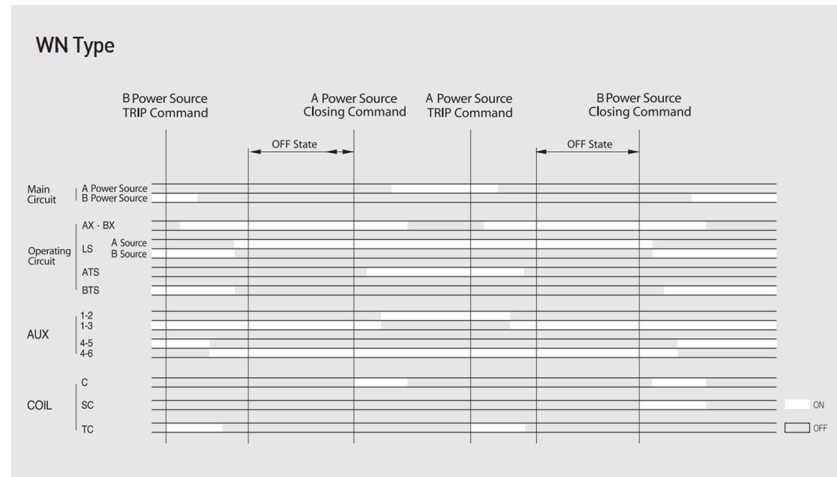
	C60160WN		C60200WN		C60250WN		C60320WN	
	1600		2000		2500		3200	
	AC600		AC600		AC600		AC600	
	AC800		AC800		AC800		AC800	
	8		8		8		8	
	3, 4		3, 4		3, 4		3, 4	
	Double Throw		Double Throw		Double Throw		Double Throw	
	●		●		●		●	
	32		40		50		50	
	32		40		50		50	
	50		65		85		85	
	200		200		200		200	
	AC-33B		AC-33B		AC-33B		AC-33B	
	5,000		3,000		3,000		3,000	
	10,000		5,000		5,000		5,000	
	A ↔ B, A ↔ Neutral(Off) ↔ B							
	≤150		≤180		≤180		≤180	
	≤30		≤35		≤35		≤35	
	3P	4P	3P	4P	3P	4P	3P	4P
	11	11	11	14	-	-	-	-
	6	6	6	7	15	15	15	15
	4		4		-		-	
	2		2		2		2	
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	-	-	-	-	-	-	-	-
	485	485	485	485	485	485	485	485
	329	412	404	512	480.5	614	480.5	614
	416	416	416	416	480	480	480	480
	-	-	-	-	-	-	-	-
	55	65	65	85	92.5	119	92.5	119
	A6-22		A6-22		A6-22		A6-22	
	A6-20		A6-20		A6-20		A6-20	
	A6-32		A6-33		A6-34		A6-34	
	A6-18		A6-18		A6-18		A6-18	



Contact Time Charts & Circuit Diagrams

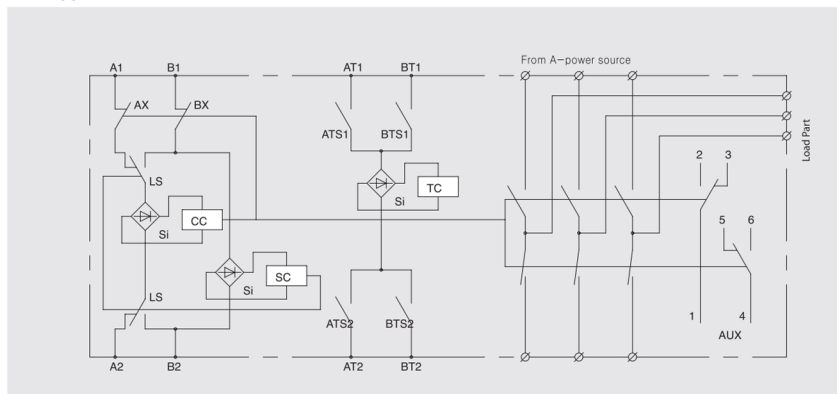
Low Voltage Auto Transfer Switch ATS, CTTS

Contact Time Charts



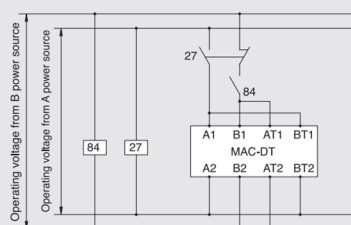
Low Voltage Auto Transfer Switch ATS, CTTS

WN Type Internal Circuit

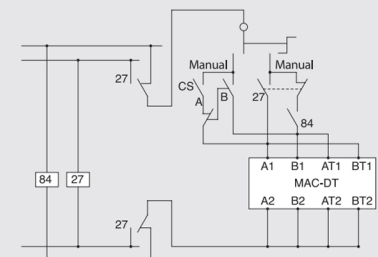


WN Type Operating Circuits

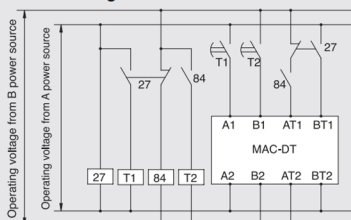
In case of a Normal Transfer (In case of an Instantaneous Transfer)



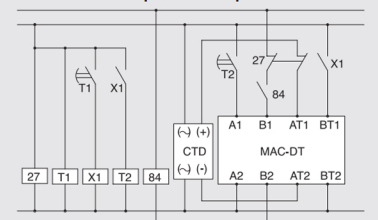
In case of Manual-Auto COS Part



When using a TIMER for Transfer

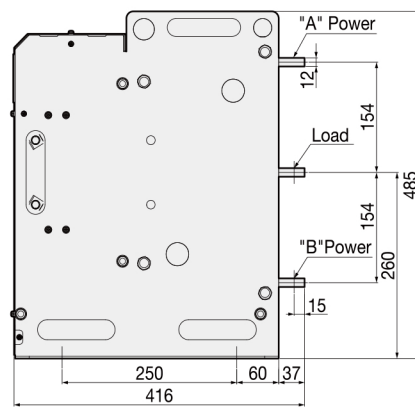
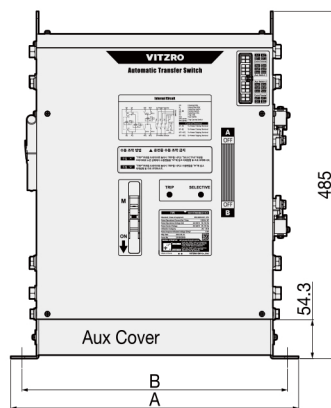
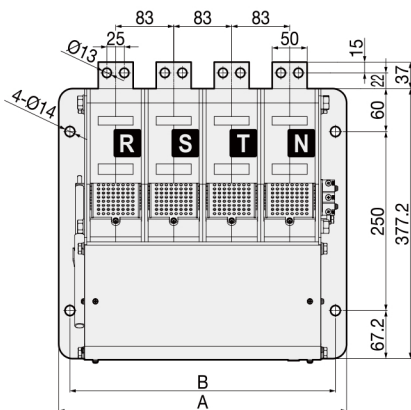


In case of a Capacitor Trip





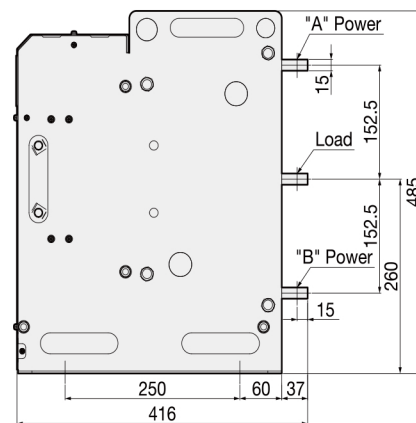
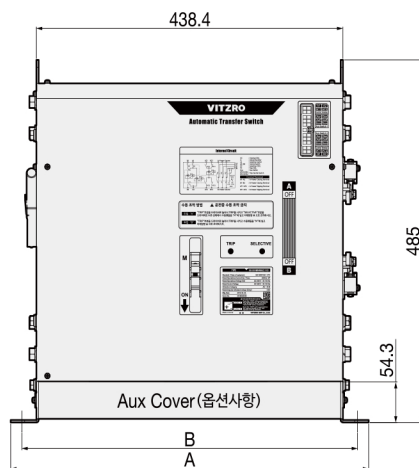
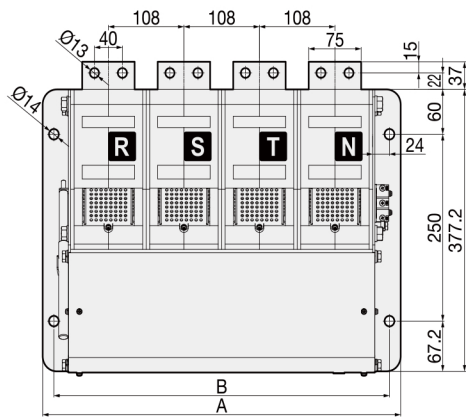
■ WN C-Type 1200A~1600A



극수	A	B
3P	329	297
4P	412	380

■ WN형 C-Type 2000A

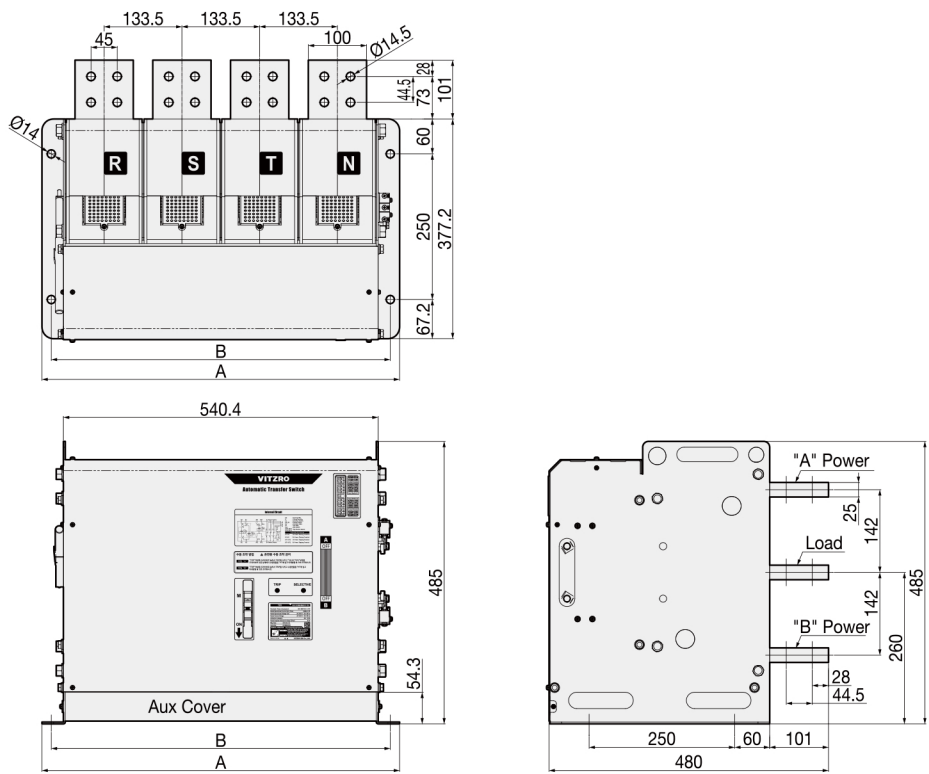
이면형



극수	A	B
3P	404	372
4P	512	480



■ WN C-Type 2500A~3200A



Type	A	B
3P	480.5	448.5
4P	614	582