### ATS WN - C Type

1250A ~ 3200A



Neutral Point Mode added A ↔ Neutral (off) ↔ B

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  $A \mapsto off \mapsto B$ ,  $B \mapsto off \mapsto A$  as well as A  $\rightarrow$ off $\rightarrow$ A, B $\rightarrow$ off $\rightarrow$ 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 uniquestructured 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									
Rated Operational Voltage (Ue)	TYPE					C60125WN			
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)           Front Back           Connection Type           Front Back           Front Back           Connection Type           Front Back           Connection Type           Front Back           Cased Short Time Current (Isec) Low kA         25           Rated Short-circuit Closing Current Icm         kA         25           With breakers (SPCD)         kA         50           With fuses         kA         200           Switching Capability         Class         AC-33B           Life Time         Electrical         Number         5,000           With fuses         AC-33B           Ac-33B           Life Time         Ac-34           Ac-33B           Ac-33B           Ac-33B           Ac-30 <tr< td=""><td>Rated Cu</td><td>ırrent (In)</td><td></td><td></td><td>Α</td><td colspan="3">1250</td></tr<>	Rated Cu	ırrent (In)			Α	1250			
Rated Impulse Withstand Voltage (Uimp)	Rated Ope	erational V	oltage (U	e)	V	AC6	AC600		
Number of Poles         P         3, 4           Number of Throw         T         (Double Throw)           Connection Type         Front Back         Front Back           Performance           Rated Short Time Current (1sec)         Icw kA         25           Rated Short-circuit Closing Current Icm kA         25           With breakers (SPCD)         kA         50           With fluses         kA         200           Switching Capability         Class         AC-33B           Life Time         Electrical         Number         5,0000           With fluses         Mechanical         Number         10,000           Switchover Sequence         A ++ B, A ++ Neutral(Off) ++ B         B           Run Time         closing         msec         ≤150           With fluses         Sa         A         230            msec         ≤150           Closing         msec         ≤150           With fluses         Sa         4P           Closing         Msec         ≤30            A 6         6           (trip)         AC220V         A 2            AC220V	Rated Ins	ulation Vo	Itage (Ui	)	V	AC800			
Number of Throw   T	Rated Impu	ılse Withsta	nd Voltage	e (Uimp)	kV	8			
Front Back           Performance           Rated Short Time Current (1sec)         Icw kA         25           Rated Short-circuit Closing Current         Icm 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           Run Time         closing         msec         ≤150           Trip         msec         ≤30           Operating Voltage and Current (rms)         3P         4P           closing         msec         ≤30           Operating Voltage and Current (rms)         3P         4P           closing         A 2         4           External Dimensions and Weight           Front Size (mm)         W 3- A         A           A 4         A         A           A 5         W 3- A         A           Back Size (mm)         W 3- A         A           Back kg         50 <td< td=""><td>Number of F</td><td>Poles</td><td></td><td></td><td>Р</td><td>3,</td><td colspan="3">3, 4</td></td<>	Number of F	Poles			Р	3,	3, 4		
Performance   Rated Short Time Current (1sec)   Icw   kA   25	Number of 7	Throw			Т	(Double Throw)			
Performance	Connection	Tyna		Fron	t				
Rated Short Time Current (1sec)         Icw         kA         25           Rated Short-circuit Closing Current         Icm         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         Msec         ≤150           A 2220V         A         6         6           (trip)         DC110V         A         4         4           AC220V         A         2         External Dimensions and Weight           Front Size (mm)         W         -         -         -           Weight         Front kg         -         -         -           Back Size (mm)         Front kg         -         -         -	Connection	туре		Back	(	•			
Rated Short-circuit Closing Current         lcm         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           Run Time         Closing         msec         ≤150           Run Time         trip         msec         ≤30           Operating Voltage and Current (rms)         3P         4P           Closing         msec         ≤30           Operating Voltage and Current (rms)         3P         4P           AP           Life Time         A         4           AC220V         A         6         6           AC220V         A         2         External Dimensions and Weight           Front Size (mm)         H         -         -         -           Back Size (mm)         W         329         412         -           D         416         416         416         416	Performa	nce							
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 trip msec         ≤ 30           Operating Voltage and Current (rms)         3P         4P           closing AC220V         A 6         6           AC220V         A 6         6           AC220V         A 2         2           External Dimensions and Weight         H	Rated Sho	rt Time Cur	rent (1se	c) Icw	kA	25			
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         6           (trip)         DC110V         A         4         4           AC220V         A         2         External Dimensions and Weight           Front Size (mm)         H         -         -           Back Size (mm)         W         -         -           Weight         Front kg         -         -           Weight         Front kg         -         -           Back kg         50         60           Additional Product Information         A6-22           Drawing         A6-32	,			kA	25				
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 trip msec         ≤150           Coperating Voltage and Current (rms)         3P         4P           Closing         DC110V A 11         A 11         11           AC220V A 6 6 6         A 4         A         A           External Dimensions and Weight         W D D - D - D - D - D - D -	With breakers (SPCD)			kA	50				
Electrical   Number   5,000	With fuses			kA	200				
Mechanical   Number   10,000	Switching Capability Cla			Clas	SS	AC-33B			
Mechanical         Number         10,000           Switchover Sequence         A ↔ B, A ↔ Neutral (Off) ↔ B           Run Time         closing msec         ≤150           Operating Voltage and Current (rms)         3P         4P           closing         DC110V         A         11         11         11         11         A         4         4         A         4         A         4         A         4         A         4         A         4         A         4         A         4         A         4         A         A         2         External Dimensions and Weight         Back Size (mm)         H         -<	Life Time	Elect	rical	Numb	oer	5,000			
Closing msec	Mechanical		Numb	mber		10,000			
Run Time         trip         msec         ≤30           Operating Voltage and Current (rms)         3P         4P           closing         DC110V         A         11         11         11           AC220V         A         6         6         6           (trip)         DC110V         A         4         4         4           AC220V         A         2         2         External Dimensions and Weight         H         - <t< td=""><td colspan="4">Switchover Sequence</td><td></td><td colspan="2"><math>A \leftrightarrow B</math>, <math>A \leftrightarrow Neutral(Off) \leftrightarrow B</math></td><td></td></t<>	Switchover Sequence					$A \leftrightarrow B$ , $A \leftrightarrow Neutral(Off) \leftrightarrow B$			
Trip   msec   ≤30	Run Time		sing	msec	≤150				
DC110V			rip	msec	≤30				
Closing   AC220V	Operating Voltage and Current		ent (rm	s)	3P	4P			
AC220V	closing	DC110V			Α	11	11		
Company   AC220V   A   2	ciosing	AC220V			Α	6	6		
AC220V   A   2	(trip)	DC110V			Α	2	1		
Front Size (mm)  Back Size (mm)  W	. ,	AC220V			Α	2			
Front Size (mm)  Back Size (mm)  W	External Dimensions and Weight								
(mm)       W       -       -         Back Size (mm)       H       485       485         W       329       412         D       416       416         Weight       Front       kg       -       -         Back       kg       50       60         Additional Product Information       A6-22         Circuit diagram       A6-20         Drawing       A6-32	Front Sizo		W D		Н	-	-		
Back Size (mm)  Weight  Front kg			н		W	-	-		
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	(******)				D	-	-		
(mm)       W       329       412         D       416       416         Weight       Front       kg       -         Back       kg       50       60         Additional Product Information       Circuit diagram         Circuit diagram       A6-22         Time chart       A6-20         Drawing       A6-32			w	- W - D					
Weight         Front Back         kg         -			н		W	329			
Weight Back kg 50 60  Additional Product Information  Circuit diagram A6-22  Time chart A6-20  Drawing A6-32					D	416	416		
Additional Product Information  Circuit diagram  A6-22  Time chart  Drawing  A6-32	Weight				kg	-	-		
Circuit diagram A6-22 Time chart A6-20 Drawing A6-32	Back				kg	50	60		
Time chart A6-20 Drawing A6-32									
Drawing A6-32									
Precautions A6-18	_								
	Precautions					A6-	-18		

<sup>\*</sup> Note1) Switching Capacity: AC-33B:

Overcurrent Switching Performance (Closing 10×le, Breaking 10×le, CosØ = 0.35), Rated Load Switching Performance (Closing 1×le, Breaking 1×le, CosØ = 0.8

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

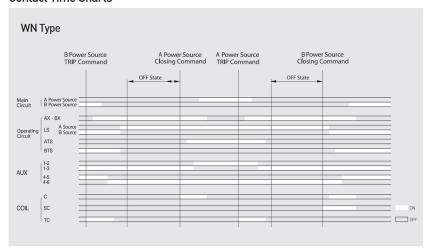
C6010	60WN	C60200WN		C60250WN		C60320WN	
16	00	2000		2500		3200	
ACC	500	AC600		AC600		AC600	
AC	300	AC800		AC800		AC800	
3	3	8		8		8	
3,	4	3, 4		3, 4		3, 4	
Double	e Throw	Double Throw		Double Throw		Double Throw	
		•		•		•	
3	2	40		50		50	
3	2	40		50		50	
5	0	65		85		85	
20	00	200		200		200	
AC-	33B	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
	22		22		22		22
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

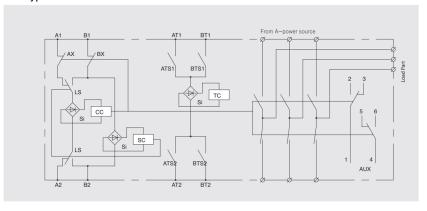
Low Voltage Auto Transfer Switch ATS, CTTS

#### **Contact Time Charts**

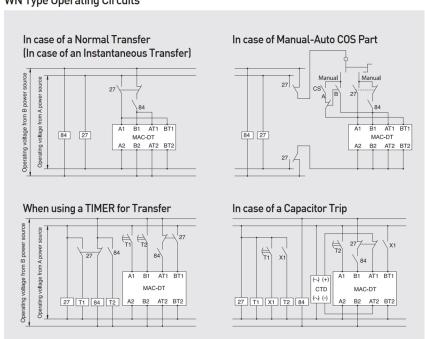


Low Voltage Auto Transfer Switch ATS, CTTS

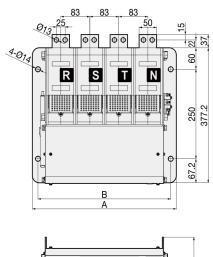
#### WN Type Internal Circuit

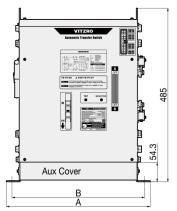


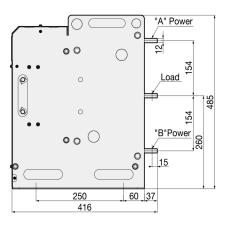
#### **WN Type Operating Circuits**



## ■ WN C-Type 1200A~1600A



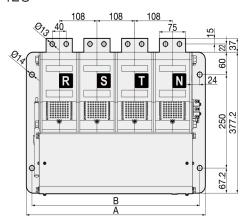


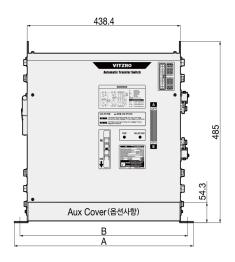


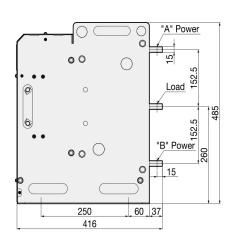
극수	А	В
3P	329	297
4P	412	380

### ■ WN형 C-Type 2000A

이면형







극수	А	В
3P	404	372
4P	512	480

### ■ WN C-Type 2500A~3200A

