

3SW8

3SW8 series ACB has fixed type and withdrawable type. Putting the fixed breaker into the drawer base becomes drawer type circuit breaker. The breaker consists of a main switch, arc extinction system, operation mechanism, electronic trip unit, auxiliary switch, secondary circuit wiring terminal, under voltage release, shunt release coil, etc.



Applications And Functions

- Incoming-feeder and outgoing-feeder function in distribution systems
- Switching and protecting large powers, motors, capacitors, generators, transformers, busbars and cables
- Overload protection
- Short-time delayed short-circuit protection
- Instantaneous short-circuit protection used in buildings, industries, energy and infrastructures

Technical specifications

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Type	3SW8-2000	3SW8-3200	3SW8-6300	
Standard	IEC 60947-2		IEC 60947-2	
Type of frame	A	B	C	
Rated frame current Inm	A	2000	6300	
Number of poles	3, 4		3, 4	
Rated current In	A	400, 630, 800, 1000 1250, 1600, 2000	2000, 2500, 2900, 3200, 4000	4000 5000 6300
Rated frequency	Hz	50/60	50/60	
Rated voltage, Ue	V	400, 690	400, 690	
Rated insulating voltage Ui	V	1000	1000	
Rated impulsive withstand voltage, Uimp	kV	12	12	
N-pole rated current	100% In		100% In	
Rated ultimate short-circuit breaking capacity, Icu			120	
(AC) 50-60 Hz 400V O-CO	kA	80	100	
(AC) 50-60 Hz 690V O-CO	kA	50	65	
Rated operating short-circuit breaking capacity, Ics			100	
(AC) 50-60 Hz 400V O-CO	kA	50	80	
(AC) 50-60 Hz 690V O-CO	kA	40	50	
Rated short-circuit making capacity (peak), Icm			264	
(AC) 50-60 Hz 400V	kA	176	220	
(AC) 50-60 Hz 690V	kA	105	143	
Rated short-time withstand current for 1s Icw	kA			100
(AC) 50-60 Hz 400V	kA/s	50	80	
(AC) 50-60 Hz 690V	kA/s	40	50	
Making time	mS	25-30	25-30	
Breaking time	mS	70	70	
Electrical life (times) in 400V	6000		3000	
in 690V	3000		1500	
Mechanical life (times) without maintenance	15000		10000	
with maintenance	30000		20000	
Mounting position				
Type of installation	Fixed / Withdrawable		Fixed (not for 4000 A) / Withdrawable	
Dimension (mm)	HxWxD		HxWxD	
Fixed, 3P	402x362x322		402x422x322	
Fixed, 4P	402x457x322		402x537x322	
Drawer, 3P	433x375x420		433x435x420	
Drawer, 4P	433x470x420		433x550x420	
Type of Electronic trip unit	Electronic type L, Standard type M, Communication type H			
Ambient temperature	-5 to +40°C , max. 95% humidity			
Storage temperature	-40 to +75°C			
Altitude (Max)	2000 m			

Instruction of type

W8	A	F	3	L	H	400
						Rated current (A) Frame A: 400, 630, 800, 1000, 1250, 1600, 2000, 4000 Frame B: 2000, 2500, 2900, 3200 Frame C: 4000, 5000, 6300
						Connection type H: Horizontal terminal connection V: Vertical terminal connection
						Model of electronic trip unit L: L type M: M type H: H type
						Poles: 3: 3P; 4: 4P
						Type of installation F: Fix type D: Withdrawable type
						Frame A: 3SW8-2000 B: 3SW8-3200 C: 3SW8-6300
						Series code

Normal Operation and Installation Conditions

- Ambient temperature: $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$, and the average temperature does not exceed $+35^{\circ}\text{C}$ within 24 h.
- Altitude: Not higher than 2000 m. The capacity should be decreased if the altitude is above 2000 m.
- Humidity: When the ambient air temperature is $+40^{\circ}\text{C}$, the relative humidity of the air shall not be higher than 50%, a higher relative humidity is allowed at a lower temperature. For example, the relative humidity should be 90% when temperature is 20°C . Special measures should be adopted for the condensation occasionally produced due to change of temperature.
- Pollution degree: 3.
- The circuit breaker can be used in electromagnetic environment A.
- Installing category: IV for main circuit; III for other auxiliary and control circuits.
- The vertical gradient: no more than 5° .
- Mounting Ambient: There must be no explosive medium, no gas which would corrode metal or any conducting dust which would destroy the insulation.
- The circuit breakers should be installed in the compartment of switchgear cabinet with doorframes fixed additionally. Protection grade is up to IP40.

Installation

- Check the following items before installation:
- Check the label plate on the breaker panel to see if it fits the specifications of the ordered goods rated current;
- Voltage and time delay of under voltage release;
- Voltage of shunt release;
- Voltage of closing coil;
- Voltage of motorized operating mechanism.
- Before installation, operation, maintenance and inspection, you shall read this manual, and consult the manufacturer for questions if any.
- Preparations before installation:
- Before the breaker is installed, check the insulation resistance of the breaker by using a 1000V megohmmeter according to regulations; when the surrounding media temperature is $25^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and the relative humidity is $5\% \sim 70\%$, the insulation resistance shall not be less than 20 megohm.
- The place with the insulation resistance to be tested includes: the place between various phases and between various phases and the frame when the breaker is closed; the place between in-and out-lines of various phases when the breaker is switched off.
- Installation of the fixed type breaker:
- Place the breaker into the distribution cabinet, and fasten it by using 4 pieces of M6 (Inm=1600 A) or M10 (Inm=3200 A or above) bolts and washers; the breaker shall be installed stably with no d=additional mechanical stress to avoid damage of the breaker or bad contact of the main busbar and the secondary circuit. After the work is completed, mount the body into the draw-out socket.
- The specification of the wiring copper bars for the primary circuit of the breaker shall meet the copper bar specification used under the conditions of conventional heating in IEC 60947-2.
- The breaker shall be grounded substantially.

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