

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 con system, arc extinction system, operation mechanism, electronic trip unit, auxiliary switch, secondary circuit wiring terminal, under voltage release, shunt re 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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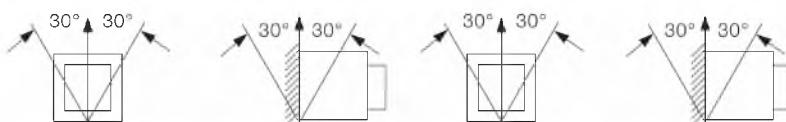
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Type	3SW8-2000	3SW8-3200	3SW8-6300			
Standard	IEC 60947-2	IEC 60947-2	IEC 60947-2			
Type of frame	A	B	C			
Rated frame current Inm	A	2000 3200 6300	6300			
Number of poles	3, 4	3, 4 (not for 4000 A)	3, 4			
Rated current In	A	400, 630, 800, 1000 1250, 1600, 2000	2000, 2500, 2900, 3200, 4000	4000	5000	6300
Rated frequency	Hz	50/60	50/60	50/60		
Rated voltage, Ue	V	400, 690	400, 690	400, 690		
Rated insulating voltage Ui	V	1000	1000	1000		
Rated impulsed withstand voltage, Uimp	kV	12	12	12		
N-pole rated current		100% In	100% In	100% In		
Rated ultimate short-circuit breaking capacity, Icu				120		
(AC) 50-60 Hz 400V O-CO	kA	80	100	75		
(AC) 50-60 Hz 690V O-CO	kA	50	65			
Rated operating short-circuit breaking capacity, Ics						
(AC) 50-60 Hz 400V O-CO	kA	50	80	100		
(AC) 50-60 Hz 690V O-CO	kA	40	50	65		
Rated short-circuit making capacity (peak), Icm						
(AC) 50-60 Hz 400V	kA	176	220	264		
(AC) 50-60 Hz 690V	kA	105	143	165		
Rated short-time withstand current for 1s Icw	kA					
(AC) 50-60 Hz 400V	kA/s	50	80	100		
(AC) 50-60 Hz 690V	kA/s	40	50	65		
Making time	mS	25-30	25-30	25-30		
Breaking time	mS	70	70	70		
Electrical life (times) in 400V		6000	3000	1000		
in 690V		3000	1500	800		
Mechanical life (times) without maintenance		15000	10000	4000		
with maintenance		30000	20000	8000		



Type of installation	Fixed / Withdrawable	Fixed (not for 4000 A) / Withdrawable	Withdrawable	
Dismension (mm)	HxWxD	HxWxD	HxWxD	HxWxD
Fixed, 3P	402x362x322	402x422x322	400x797x364	400x912x364
Fixed, 4P	402x457x322	402x537x322	400x912x364	-
Drawer, 3P	433x375x420	433x435x420	432x813x486	432x928x486
Drawer, 4P	433x470x420	433x550x420	432x928x486	450x930x492
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

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% ~ 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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