ELECAL

DW 45

Dw45 intelligent universal low-voltage breaker :

Dw45 series air circuit breaker(hereinafter referred to as breaker)is suitable for the circuit of AC 50Hz with rated voltage 400V,690V and rated current up to 6300A.It is mainly used to distribute electric energy and protect circuits and power-supply equipment from over-load,under-voltage,short-circuit and single-phase earthing.with intelligentized and selective protection functions,the breaker can improve the reliability of power supply,and avoid unnecessary power failure. The breaker is applicable for power stations,factories,mines(for 690V) and modern high-buildings,especially for the distribution system of intelligentized building.This breaker conforms to IEC60947-2 and GB14048.2.The whole series have past CCC certification and CB certification of SEMKO.

Product model and its meaning :

Model meaning

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- Number of poles
- Frame size rated current
- Design number (enterprise)
- Air circuit breaker
- Enterprise Code

Environment conditions for operation:

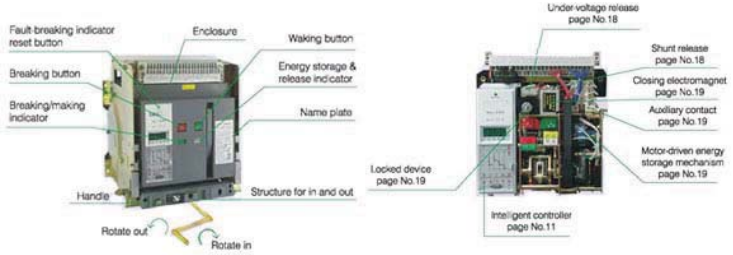
Environmental temperature Tempeerature condition:-5℃ ~+40℃ ;the average value within 24h shall not exceed +35(Speial situation excluded)Elevation Altnmosphere condition Relative humidity at +40℃. shall not exceed 50%.higher hum-idity is permissible at lower temperature condition. when the highest monthly average relative humidity is 90% in the humiddext month,the lowest monthly average temperature of this month is +25℃.And consider the influence of dew on product surface due to temperature changes.pollution grade:grade The breaker should be installed caccording to the requirements on the instruction manual.The vertical inclination degree shall not exceed 5°

Structure·

Drawer seat　　Main body

The breaker consists of body and drawer base.inserting the body into the drawer base, thus make the drawer-type breaker

Fixed plate for the fixed type breaker



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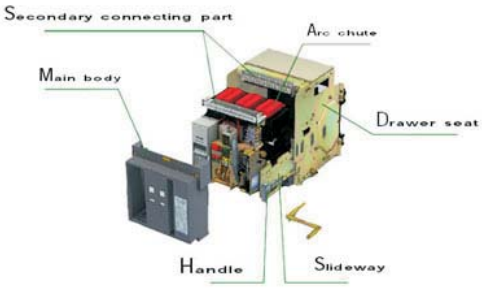
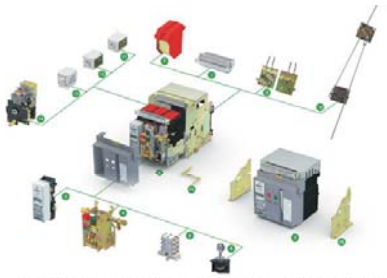
Installation and usage :

Installation Unload the breaker from the soleplate of package-box. if it is drawer type,firstly pull out the handle from under the drawer-base of breaker,and plug it into the hole on central section of plastic cover under the drawer-base crossbeam,anticlockwise turns the handle,breaker body will slowly slide along the outside of drawer-base. When the guide-rod points to separated position and handle can't be rotated any longer,pull out the handle and firmly grasp the aluminum hadle on drawer-base,pull out the breaker body and remove ift form drawer-base Check the insulation resistance with a 500V megger,resistance should not be less than 20MQ when ambient temperature is 20oC5oCand relative humidity is 50%-70%.otherwise have it drying. Put the breaker(fixed-type) or drawer-base(drawer-type) onto the installation- bracket,and make it fixed,directly connect the bus wire of main circuit to the bus wire of fixed-type circuit breaker,alternatively put breaker body onto the guild rail of drawer-base.Plug the place,then connect the bus wire of main circuit to bus wire of drawer-base. wiring the secondary circuit according to electric principle diagram. Note:something like bolts,nuts.gaskets shouldn't be left inside the drawer-base to avoid being blocked. Usage and operation Check the rated voltage of the following components whetherconforms to the power voltage or not .such as under voltage release,shunt releaseclosing electromagnet,motor-driven mechanism and intelligent controller Maintenance Check the technical index on time or and some lubricating oil.,etc. This breaker structure is arranged vertically and modularized composition with each function=cell separated,which make the maintenance easy.it has compact structure,reliable operation and strong free maintenance capability. P lease check the technical parameters on the nameplate accordance with the reauirements of order before installation

Product model and its meaning :



Making the secondary circuit power,the motor-driven menchanism can store eenergy automatically until hearing the click and energy stored "indicating on the panel. otherwise press the storage handle for 6 times until hearing the click and the indicator displayenergy stored" and the closing operation can be realized either by closing electromagnet or manual button.



1.with drawable-breaker 2.Fixed-breaker 3.Intelligent controller 4.Operating mechanism
5.Auxiliary contact 6. Locking -device 7.Arc chute 8.Secondary connecting part
9.Wire cable mechanical interlock

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DW45-1000

Main teachnical parameter:

Rated ultimate short circuit breaking capacity(KA)		Icu=42KA 400V 20KA 690V Icu=Icw=30KA 400V 15KA 690V
Rated current in (A)		200 400 630 800 1000
Number of poles		3,4
Rated voltage ue(V)		400V,690V
Rated insulation voltage Ui (A)		1000V
Rated current of N-pole IN(A)		50%In,100%IN
Fixed disconnection time		23-32Ms
Intelligent controller	sandard type(M)	
	Communication type(H)	
Operation performance	Electric life	500
	mechanical life	Non-maintenance 2500
		Maintenance 10000
Connection pattern		Horizontal,vertical

DW45-2000

Main teachnical parameter:

Rated ultimate short circuit breaking capacity(KA)		Icu=80KA 400V 50KA 690V Ics=Icw=50KA 690V 40KA 690V
Rated current in (A)		400 630 800 1000 1250 1600 2000
Number of poles		3,4
Rated voltage ue(V)		400V,690V
Rated insulation voltage Ui (A)		1000V
Rated current of N-pole IN(A)		50%In,100%IN
Fixed disconnection time		23-32Ms
Intelligent controller	sandard type(M)	
	Communication type(H)	
Operation performance	Electric life	500
	mechanical life	Non-maintenance 2500
		Maintenance 10000
Connection pattern		Horizontal,vertical

DW45-3200

DW45-4000

Main teachnical parameter:

Rated ultimate short circuit breaking capacity(KA)		Icu=100KA 400V 80KA 690V Ics=Icw=80KA 400V 40KA 690V
Rated current in (A)		2000 2500 3200 4000
Number of poles		3, 4 3
Rated voltage ue(V)		400V,690V
Rated insulation voltage Ui (A)		1000V
Rated current of N-pole IN(A)		50%In,100%IN
Fixed disconnection time		23-32Ms
Intelligent controller	sandard type(M)	
	Communication type(H)	
Operation performance	Electric life	500
	mechanical life	Non-maintenance 2500
		Maintenance 10000
Connection pattern		Horizontal,vertical

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DW45-6300

Main teachnical parameter:

Rated ultimate short circuit breaking capacity(KA)		Icu=120KA 400V 80KA 690V Ics=Icw=100KA 400V 60KA 690V
Rated current in (A)		4000 5000 6300
Number of poles		3, 4 3
Rated voltage ue(V)		400V,690V
Rated insulation voltage Ui (A)		1000V
Rated current of N-pole IN(A)		50%In,100%IN
Fixed disconnection time		23-32Ms
Intelligent controller	sandard type(M)	
	Communication type(H)	
Operation performance	Electric life	500
	mechanical life	Non-maintenance 2500
		Maintenance 10000
Connection pattern		Horizontal,vertical