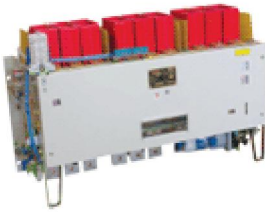


NONARC

## Dw15 Air Circuit Breaker Low Voltage (Electric motor magnetic type)



### Scope of application

Dw15 series air circuit breakers (hereinafter called circuit breaker) are rated 100A to 4000A in current (up to 630A for limiting-current open circuit) and AC 50Hz 380V in voltage. The breaker is mainly used to distribute electric energy in the power distribution network and to protect the circuit and power source equipment from overload, undervoltage and short circuit. DW15-200,400 and 630 can also be used in AC 50Hz 380V electric network to protect the motor from overload, undervoltage or short circuit, or in 660V or 1140V power distribution network to offer the above protections. Under the normal conditions, the breaker can be used to switch the circuit and start the motor infrequently. With the current limiting characteristics, the current-limiting breaker is especially suitable for the network where large short-circuit current is likely to occur.

### Construction features

DW15-200,400 and 630 breakers are of three-dimensional arrangement type. All the contact system, instantaneous overcurrent release, and left and right side boards are mounted on one insulating plate. The arc-extinguishing system is mounted on the upper part. The operating mechanism can be mounted on the front face or the right side and has the "Breaking" and "Closing" indications and the manual disconnection button. The shunt release is mounted in the top left part and the undervoltage release, which is connected with the tripping half axis, is mounted in the back. The quick saturation current transformer of the current-voltage converter is put onto the lower bus bar. The undervoltage time delay device, thermal relay or semiconductor release can be mounted on the lower part.

DW15-1000,1600,2500 and 4000 breakers are of three-dimensional arrangement type. The frame is composed of the bottom support, side board and beam. The contact system of each phase is mounted on the bottom support and the arc-extinguishing chamber is mounted above it. The operating mechanism is at the front right of the breaker and connected with the contact system through the principal axis. The electric operating mechanism, which is integrated with the mechanism through the square axis, is mounted at the lower part of the breaker and used to store energy for the breaker or to close directly. After storing energy, the release electromagnetic iron will be responsible for closing. There is an anti-bouncer mounted on the top of the left side board in order to prevent the breaker against bouncing when it breaks. Various overcurrent release are mounted at the lower part of the breaker according to the different requirements. The undervoltage release, shunt release and electric operating control part are mounted at the left part. The undervoltage release and shunt release are connected with the amplifying mechanism through the tripping axis in order to reduce the tripping force for the breaker. The 12 pairs of auxiliary contacts are for users to connect the secondary loop. On the panel, there are indication plates of "1" and "0" (Both of them are pressed down.) for closing. DW15-1000 and 1600 breakers are attached with the front manual operating handle; DW15-2500 and 4000 are attached with the manual operating handle for overhaul. Both of them can be dismantled.

### Main technical parameters

1、main technical parameters of circuit breakers

Type	Maxi.of rated current A		In A	Icu KA		IcskA		IcwkA	Arcing dis-tance mm	Line-method
				380V	660	380	660			
DW15-630	200	T	100、160、200	20	-	20	-	8 (D0.2S)	280	UP
		E	100、200							
	400	T	315、400	30	25	30	20	12.6 (D0.2S)		
		E	200、400							
	630	T	315、400、630	70	25	30	20	12.6 (D0.2S)		
		E	315、400、630							
DWX15-630	200	T	100、160、200	50	-	20	-	8 (D0.2S)	350	UP OR DOWN
		E	100、200							
	400	T	315、400	70	25	30	20	12.6 (D0.2S)		
		E	200、400							
	630	T	315、400、630	80	-	50	-	60 (D0.5S)		
		E	315、400、630							
DWX15-1600	1600		630、800、1000、1600	40	-	30	-	30 (D0.5S)		
DWX15-2500	2500		1600、2000、2500	60	-	40	-	40 (D0.5S)		
DWX15-4000	4000		2500、3000、4000	80	-	50	-	60 (D0.5S)	400	

Overall and installation dimensions