

HQ1Dual Power Change-over Switch EQ1 Series [ats]



Standard EN 60947-1
EN 60947-2; EN 60947-6-1

The breakers are in accordance with the directives of EC "Low voltage directives (LVD) no. 73/23 EEC" and "Electromagnetic Compatibility Directives (EMC) no. 89/336 EEC".

The system for dual power change-over switch HQ1 is designed to provide continuous power supply and two electrical sources automatic switch in case of failure or deviation from the set parameters. The system for dual power change-over switch consists of two high capacity circuit breakers mounted on a metal frame connected with common operating mechanism and controlled by a command devices that controls the system parameters' correspondence.

Functions

- * Switching on/off heavy loaded electrical circuits at main power supply discrepancy
- * Switching to dual power change-over at power supply phase lack
- * Breaking of electrical circuits and control of powerful consumers
- * Used as a main breaker in housing or industrial distributing installations supplied with a generator or a second power supply source (hospitals ,post office,military sites,control rooms)
- * Remarkable with high reliability of current characteristics
- * Control: motor
- * Controls the following circuit parameters
 - presence of the three phases
 - the phase voltage to be in the set limits
 - overload
 - short circuit at the outlet

Technical date

- * Rated operating voltage: 690V .50/60Hz
- * Surge voltage wear resistance: 8000V
- * Joining terminal: bolt connection with 4 bolts to the power supply rail
- * Connecting:
 - copper rails - flexible or rigid conductors
- * Electrical wear resistance(number of cycles): 10000
- * Mechanical wear resistance(number of cycles): 20000
- * IP code: IP21
- * Mounting:
 - clamping with bolts
 - mounting position: vertical gradient-maximum 5o
- * Plastic material of the breakers of UV rays and non-flammable
- * Ambient temperature: -10°C+45°C
- * Installation altitude: up to 2000m

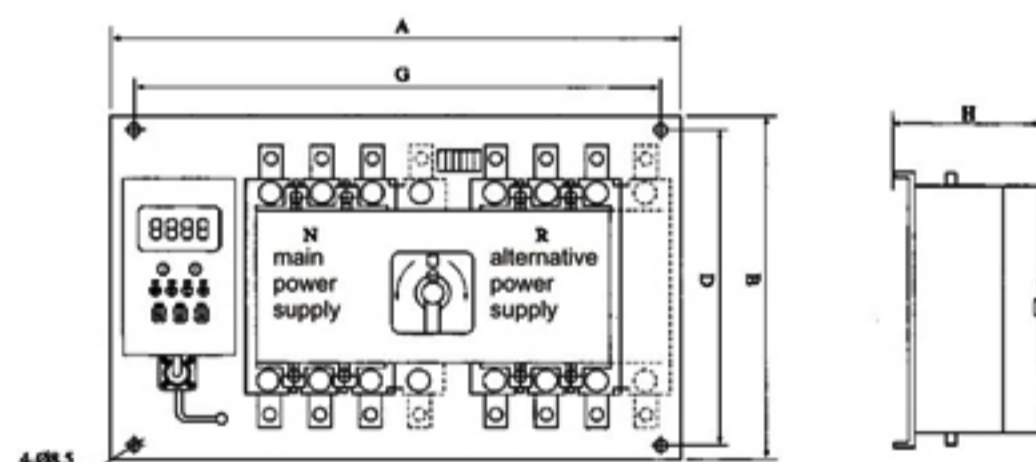
basic functions of the control device

- * Overload protection
- * Instantaneous short circuit protection
- * Under phase protection
- * Possibility for setting the change-over time between the two sources -min 3s
- * Possibility for automatic switch-over to the main power supply source after restoring its parameters

The ssystem for dual power change-over switch is offered in two types:

- with display(control device)mounted on the mounting plate(integrated type)
- with separated control dispalay

Dimensions



Type of the breaker	Dimensions(mm)				
	A	B	C	D	H
inner type					
HQ1-100	480	240	450	210	140
HQ1-225	480	240	450	210	140
HQ1-400	620	300	590	270	235
HQ1-630	660	300	630	270	240
moved type					
HQ1-100	420	230	390	200	145
HQ1-225	420	230	390	200	145
HQ1-400	570	300	540	270	235
HQ1-630	610	300	580	270	240

Type	Rated current In(A)	Max.breaking capacity (kA)Icu	Oerating breaking capacity (kA)Ics	Section of the power supply conductor (mm2)	Electrical wear resistance (number of cycles)	package/box (pcs)
HQ1-100	100	22	15	35	6000	1/1
HQ1-225	225	35	25	70	6000	1/1
HQ1-400	400	42	35	180	6000	1/1
HQ1-630	630	50	42	240	6000	1/1
HQ1-100*	100	22	15	35	6000	1/1
HQ1-225*	225	35	25	70	6000	1/1
HQ1-400*	400	42	35	180	6000	1/1
HQ1-630*	630	50	42	240	6000	1/1