

RDXQ5、RDQH5 series Automatic Transfer Switch Equipment



Convenient Handle Design

Design Handle inside or right side of product for convenient operating



Integrated control, Small volume

Smaller volume, saving the install space



Convenient user operate set

Operate set interface on front of product for easy setting



Improving characteristic

The controller adopts single chip microcomputer as the control core, simple hardware, easy Expansion

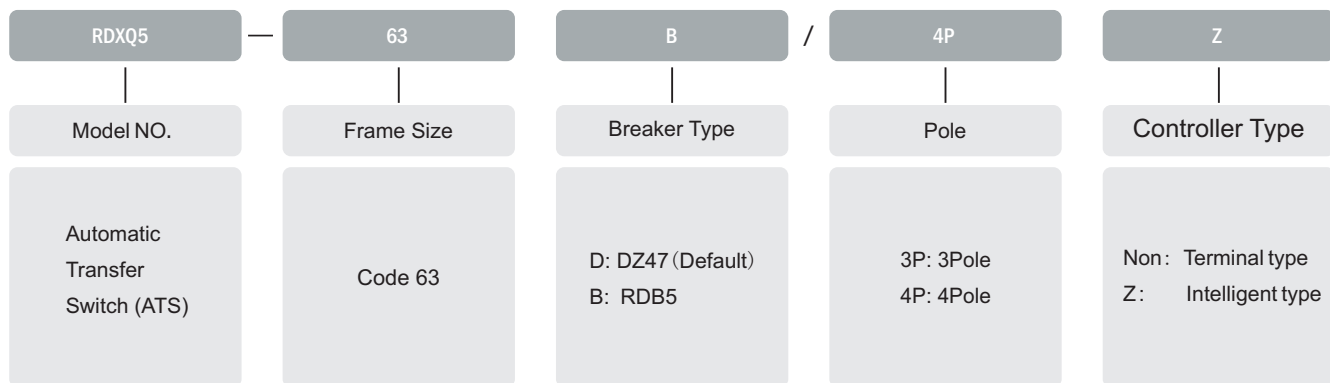
RDXQ5 series Automatic Transfer Switch

Introduction

RDXQ5 series Automatic Transfer Switch(ATS) is applied to Power-system of AC50/60Hz, Rated operate voltage 400V, Rated operate current from 6A up to 63A. Normal, Backup interline of product can connect with Net-grid or one with Net-grid and another with generator power-supply. When one line has faults(phase-loss, overvoltage, undervoltage), ATS switches another circuit into line automatically for keeping the power-supply. It is mainly applied to important places, like high building, mall, bank, hospital, airplane, etc, which not allowed power-off. And ATS has short-circuit, overload protection to ensure the reliability and safety of power-supply.

Standard: IEC/EN 60947-6-1, GB/T 14048.11

Type selection



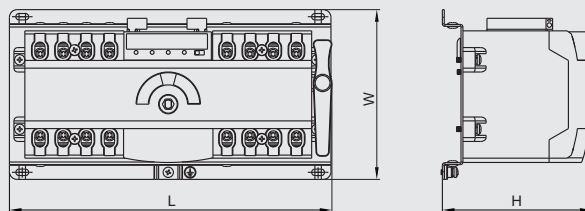
Controller Function

Function Set	Set Range	Default
1 Operation Mode	Auto, Manual	Auto
2 Grid structure	Grid Net and Grid Net, Grid Net and Generator Power	Grid Net and Grid Net
3 Work Mode	Self throw-Self reset, Self throw-Self not reset, Mutual backup	Self throw-Self reset
4 Monitor Function	Overvoltage, Undervoltage, phase-loss detection. Set range of Overvoltage threshold 230V~280V, Undervoltage 140V~220V	Overvoltage set 270V, Undervoltage se 170V
5 Normal turns Backup Time-delay	1s~255s	3s
6 Backup turns Normal Time-delay	1s~255s	3s
7 Two break Time-delay	0.5s~10s	3s
8 Fire linkage control	AC/DC12V~36V input to Both break	
9 Voltage calibration	Can take 6 ways Voltage Calibration	

RDXQ5 series Automatic transfer Switch

Technical parameter

Frame Size Rated Current Inm (A)	63		
Rated current Ie(A)	6、10、16、20、25、32、40、50、63		
Pole	3P、4P		
Frequency(Hz)	50		
Rated insulation voltage Ui(V)	AC400		
Rated impulse withstand voltage Uimp(kV)	4		
Rated operate voltage Ue(V)	AC400		
MCB Type	D	B	
Rated short-circuit breaking capacity Icn(kA)	4	6	
Rated short-circuit connecting capacity Icm(kA)	5.88	9.18	
ATSE Type	CB Type		
Using Type	AC-33iB		
Ambient Temperature	-35℃~+70℃		
Electrical life(Times)	1500		
Mechanical life(Times)	6000		
Mini transfer time	≤3s (Can be added the conversion time delay)		
Shape dimension	L (mm)	W (mm)	H (mm)
RDXQ5-63	251	132	116.5



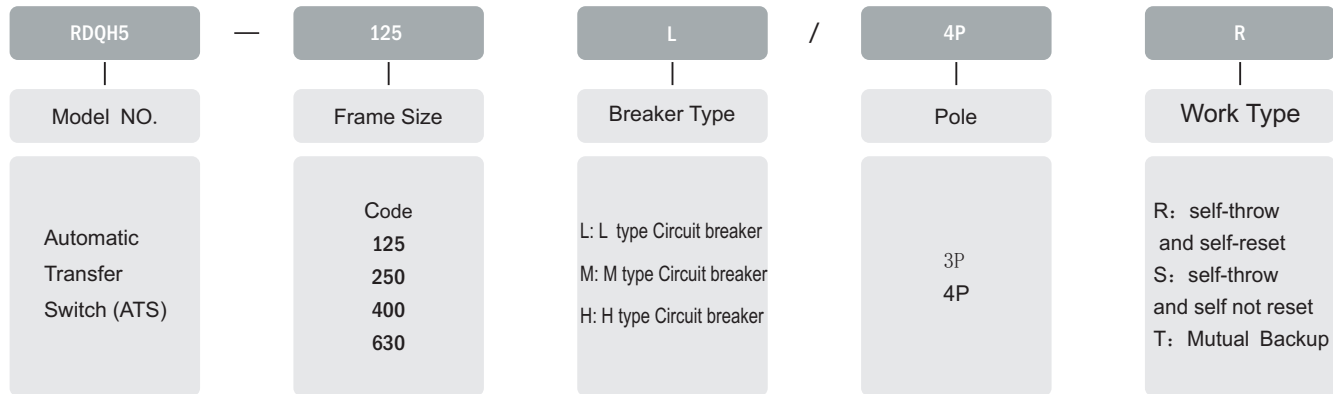
RDQH5 series Automatic Transfer Switch

Introduction

RDQH5 series Automatic Transfer Switch(ATS) is applied to Power-system of AC50/60Hz, Rated operate voltage 400V, Rated operate current from 16A up to 630A. Normal, Backup interline of product can connect with Net-grid or one with Net-grid and another with generator power-supply. When one line has faults(phase-loss, overvoltage,undervoltage), ATS switches another circuit into line automatically for keeping the power-supply. It is mainly applied to important places, like high building, mall, bank, hospital, airplane, etc, which not allowed power-off. And ATS has short-circuit, overload protection to ensure the reliability and safety of power-supply.

Standard: IEC/EN 60947-6-1, GB/T 14048.11

Type selection



Note: Grid Net-Generator only has work mode of self-throw and self-reset

Controller Function

Function Set	Set Range	Default
1 Operation Mode	Auto, Manual	Auto
2 Grid structure	Grid Net and Grid Net, Grid Net and Generator Power	Grid Net and Grid Net
3 Work mode	Self throw-Self reset, Self throw-Self not reset, Mutual backup	Self throw-Self reset
4 Buzzer alarm	ON, OFF	ON
5 Monitor function	Overvoltage, Undervoltage, phase-loss detection. Set range of Overvoltage threshold 230V~280V, Undervoltage 140V~220V	Overvoltage set 270V,Undervoltage se 170V
6 Normal turns Backup Time-delay	1s~255s	3s
7 Backup turns Normal Time-delay	1s~255s	3s
8 Both break delay	0.5s~10s	3s
9 Phase sequence detect	ON, OFF	ON
10 Fire linkage control	AC/DC12V~36V input to Both break	
11 Voltage calibration	Can take 6 ways Voltage Calibration	

RDXQ5 series Automatic transfer Switch

Technical parameter

Frame Size Rated Current Inm (A)	125			250			400			630		
Rated current Ie(A)	16、20、25、32、40 50、63、80、100、125			100、125、160、180、 200、225、250			225、250、315、 350、400			400、500、630		
Pole	3P、4P											
Frequency(Hz)	50											
Rated insulation voltage Ui(V)	AC800											
Rated impulse withstand voltage Uimp(kV)	8											
Rated operate voltage Ue(V)	AC400											
Breaker Type	L	M	H	L	M	H	L	M	H	L	M	H
Rated short-circuit breaking capacity Icn(kA)	35	50	85	35	50	85	50	65	100	50	65	100
Rated short-circuit connecting capacity Icm(kA)	73.5	105	187	73.5	105	187	105	143	220	105	143	220
ATSE Type	CB Type											
Using Type	AC-33iB											
Ambient Temperature	-35℃~+70℃											
Electrical life(Times)	1000			1000			1000			1000		
Mechanical life(Times)	5000			5000			3000			2000		
Mini transfer time	≤3s(Can be added the conversion time delay)											

Shape Dimension

Model NO.	L (mm)	W (mm)	H (mm)
RDQH5-125L/3P	308	194	132
RDQH5-125L/4P	338	194	132
RDQH5-125M(H)/3P	308	194	149
RDQH5-125M(H)/4P	338	194	149
RDQH5-250L/3P	347	209	151
RDQH5-250L/4P	382	209	151
RDQH5-250M(H)/3P	347	209	169
RDQH5-250M(H)/4P	382	209	169
RDQH5-400L/3P	490	309	215
RDQH5-400L/4P	539.5	309	215
RDQH5-630L/3P	568	328	216.5
RDQH5-630L/4P	626	328	216.5

