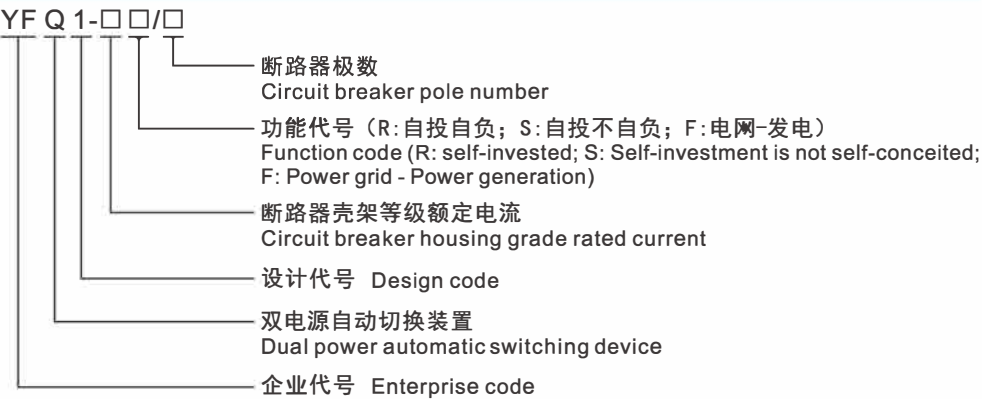


YFQ1双电源自动切换装置

YFQ1 Dual Power Automatic Switching Device



型号及含义 Model And Meaning



控制器特性及功能 Controller features and functions

- 双电源自动转换开关根据工作电源的电压状态，以及用户所设置的工作方式，决定是否从一个电源转向另一个电源。它的功能取决于其所配置的控制器，控制器包括Y、Y+W2、Y+W3三种型号的控制器，其具备的主要功能和特性如下表所示：
- According to the voltage state of the working power supply and the working mode set by the user, the dual power switch decides whether to switch from one power supply to another power supply. Its function depends on the controller it is configured with, the controller includes Y, Y+W2, Y+W3 three types of controller, its main functions and characteristics are shown in the following table:

控制器 Controller	Y型控制器 Y type controller	Y+W2型控制器 Y+W2 controller	Y+W3型控制器 Y+W3 controller
工作电源 Working power supply	AC160-250V 50/60Hz DC12V(由Y型控制器内部提供) DC12V(provided internally by Y controller)		
安装方式 Installation mode	一体式 All in one	分体嵌入式控制面板 Split embedded control panel	
工作位置 Working position	三个工作位置 Three working positions		
操作方式 Mode of operation	自动、手动和电手动操作 Automatic, manual and electric manual operation		
电压监测功能 Voltage monitoring function	三相过压、欠压、缺相检测 Three-phase overvoltage, undervoltage and phase deficiency detection		
频率监测功能 Frequency monitoring function	频率测量 Frequency measurement		
发电机控制 Generator control	一组3A继电器干接点 A set of 3A relay dry contacts		
消防联动控制 Fire control linkage	无源触点输入, 带一组常开无源信号反馈触点 Passive contact input with a set of normally open passive signal feedback contacts		
转换方式 Conversion mode	可设置自投自复、自投不自复、和电网—发电机模式 You can set self-restoring, self-restoring, and grid-generator modes		
显示功能 Display function	数码管和指示灯显示电源参数及开关状态 Nixie tube and indicator light show power parameters and switch status		中文液晶显示 Chinese liquid crystal display
转换延时功能 Conversion delay function	0.5-60秒连续可调节 0.5-60 seconds continuous adjustable		
返回延时功能 Back delay function	0.5-60秒连续可调节 0.5-60 seconds continuous adjustable		

YFQ1双电源自动切换装置

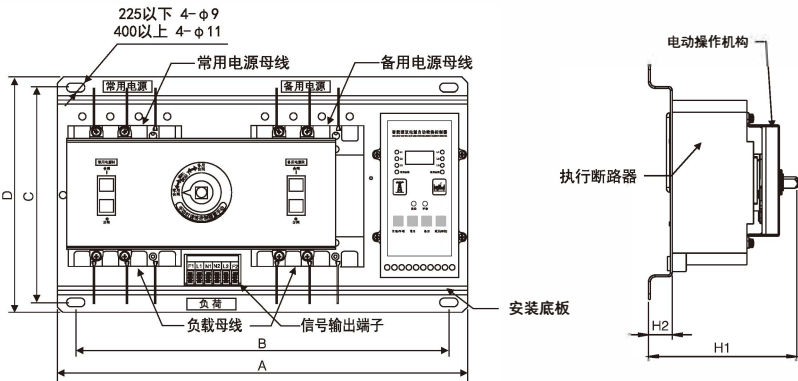
YFQ1 Dual Power Automatic Switching Device



技术参数 Technical Parameter

型号 Model number	100/225	400	630/800
机械寿命 Mechanical life	5000	3000	2500
电寿命 Electrical life	1000	1000	500
额定工作制 Rated working system	不间断工作制 Non-stop working		
过电压切换整定值 Overvoltage switching setting	200~300VAC (可调节) 200~300VAC (adjustable)		
欠电压切换整定调节范围 Undervoltage switching sets the regulation range	200~300VAC (可调节) 200~300VAC (adjustable)		
触头转换时间 Contact transition time	<4s		
分闸延时 t1 Switching delay t1	0.5~30s连续可调 0.5~30s continuous adjustable		
合闸延时 t2 Closing delay t2	0.5~30s连续可调 0.5~30s continuous adjustable		

外形及安装尺寸 Outline and mounting dimensions



规格 Specifications	尺寸 size	A		D	B		C	H1	H2
		3P	4P		3P	4P			
63		380	405	250	340	365	230	< 160	25
100		405	435	250	365	395	230	< 170	25
225		450	480	250	410	440	230	< 190	25
400		570	620	330	510	560	300	< 200	25
630		680	740	330	620	680	300	< 250	25
800		750	820	330	690	760	300	< 250	25

YFQ2-63/125系列双电源切换装置

YFQ2 Dual Power Switching Device

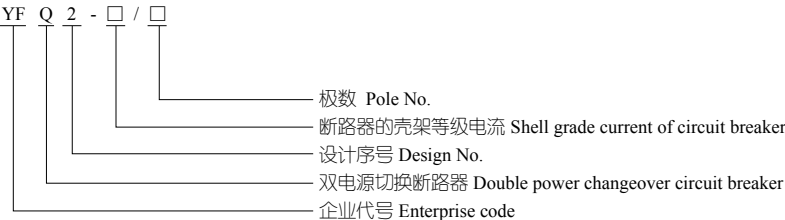


适用范围 Scope of application

随着社会的发展，人们对供电可靠性的要求也越来越高，很多场合用两路电源来保证供电的可靠性，这就需要一种在两路电源之间进行可靠切换，以保证供电的断路器。YFQ2 智能型双电源切换断路器就是为了满足这一要求而开发的一种专用产品。该产品用手动操作方式来完成常用电源与备用电源之间的切换，是一种性能完善、安全可靠、高分断、体积小、安装方便、自动化程度高，使用范围广的双电源切换产品，主要用于医院、商店、银行、化工、冶金、高层建筑、军事设施等不允许断电的重要场合。本产品符合 GB10963-1999 和 IEC60898: 1995 标准。适用于交流 50Hz，额定工作电压 400V 及以下，额定工作电流至 125A 的双电源供电系统。

With the development of society, people have higher requirements to power supply reliability and they use two-way power to guarantee the reliability of power supply on many occasions. The circuit breaker is needed in two-way power for reliable changeover and to guarantee power supply. YFQ2 intelligent double power changeover circuit breaker is the special product designed to meet this demand. The product achieves the changeover between normal power and reserve power by manual operation mode, with performance of perfect, safe, reliable, high breaking, small, easy installation, high automatic degree and wide using range. It is mainly used in hospital, store, bank, chemical industry, metallurgy, tall building, military installations etc. that donot allow power off. The product conforms to GB10963-1999 and IEC60898:1995. It is applied to the double power supply system with AC 50Hz, rated working voltage 400V and below, rated working current up to 125A.

型号及含义 Type and its meaning



主要技术参数 Main technical parameter

1. 主要类型
A、C 型主要用于照明保护
B、D 型主要用于动力保护
2. 额定电流为：1A、3A、6A、10A、16A、20A、25A、40A、50A、63A、(YFQ2-63 型)
63A、80A、100A、125A、(YFQ2-100 型)
3. 极数为：单极、二极、三极、四极
4. 额定频率为 50/60Hz
5. 额定短路分断能力 (A)：1-32A(YFQ2-63 型)：6000；40-63A(YFQ2-63 型)、63-125A(YFQ2-100 型)：4500。
6. 本产品为导轨安装。

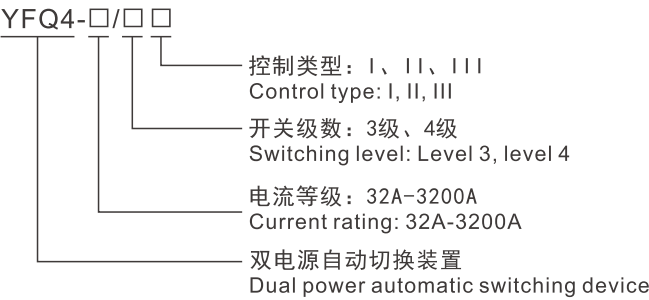
1. Main types
A,C type mainly for lighting protection
B,D type mainly for power protection
2. Rated current: 1A、3A、6A、10A、16A、20A、25A、32A、40A、50A、63A、(YFQ2-63 type)
63A、80A、100A、125A、(YFQ2-100 type)
3. Pole No.: Single-pole, double-pole, three-pole, four-pole
4. Rated frequency: 50/60Hz
5. Rated short circuit breaking capacity (A): 1-32A(YFQ2-63 type): 6000; 40-63A(YFQ2-63 type)、63-125A(YFQ2-100 type): 4500。
6. Guide rail installation.

YFQ4双电源自动切换装置

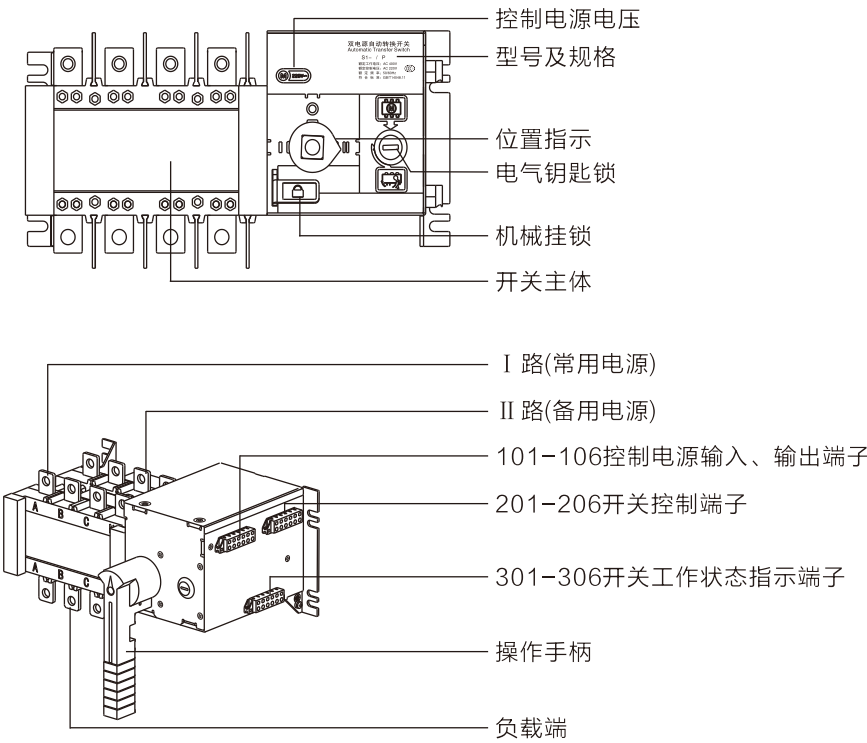
YFQ4 Dual Power Automatic Switching Device



型号及含义 Model And Meaning



开关结构说明 Switch structure Description



- ① 电气钥匙锁：控制开关内部控制线路电源，电气锁开启时，开关实现自动、远控操作，电气锁关闭时，开关只可手动操作。
 - ② 操作手柄：使用操作手柄操作开关时，必须关闭电气锁。
 - ③ 机械挂锁：检修时，先用操作手柄使开关处于0档位置，拉起挂锁机构并上挂锁，方可进行检修；（拉起机械挂锁则切断开关内部控制电源，开关无法电动并且无法实现手动）。
 - ④ 位置指示：表示开关工作状态位置（I，0，II）。
 - ⑤ 控制电源电压： AC 220V。
- ① Electric key lock: control switch internal control line power supply, when the electric lock is opened, the switch to achieve automatic and remote control operation, when the electric lock is closed, the switch can only be manually operated.
 - ② Operating handle: When using the operating handle to operate the switch, the electrical lock must be closed.

YFQ4双电源自动切换装置

YFQ4 Dual Power Automatic Switching Device



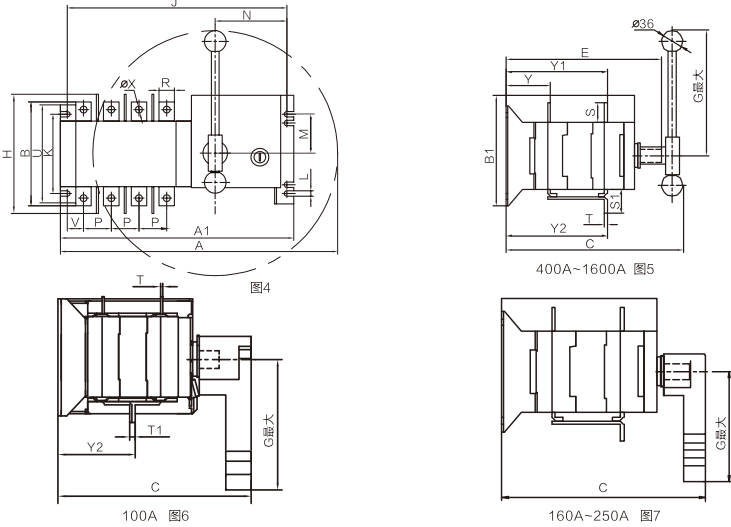
- ③ Mechanical padlock: maintenance, first use the operating handle to make the switch in the 0 gear position, pull up the padlock mechanism and padlock, can be repaired; (Pulling up the mechanical padlock will cut off the internal control power supply of the switch, and the switch cannot be electric and cannot be manually implemented).
- ④ Position indicator: indicates the switch working state position (I, 0, II).
- ⑤ Control power supply voltage: AC 220V.

技术参数 Technical Parameter

壳架等级 Frame grade		100				250				630				1600				3200							
额定工作电流I _e （A） Rated operating current I _e (A)		32	40	50	63	80	100	125	160	200	225	250	315	350	400	500	630	800	1000	1250	1600	2000	2500	3200	
额定绝缘电压U _i Rated insulation voltage U _i		690V										800V													
额定冲击耐受电压U _i imp Rated impulse withstand voltage U _i imp		8kV																							
额定工作电压U _e Rated operating voltage U _e		AC 400V																							
使用类别 Category of use		AC-33B														AC-33iB									
额定短路接通能力I _{cm} Rated short-circuit closing capacity I _{cm}		8kA				17kA				26kA				67.5kA											
额定短时耐受电流I _{cw} Rated short-time withstand current I _{cw}		5kA/30ms				10kA/60ms				12.6kA/60ms				32kA/60ms											
转换时间 I-Ⅱ 或 Ⅱ-I Conversion time I-II or II-I		2.5s				0.6s										1.2s				1.8s				2.4s	
控制电压 Control voltage		DC24V,48V,110 AC 220V																							
电机额定功率 Rated power of motor	启动 Startup	20W				325W				355W				400W	440W				600W						
	正常 Normal					62W				74W				90W	98W				120W						
重量(kg) 4极 Weight (kg) 4 poles		3.4				6.0		7.6		15.8		16.8		36	36	37	38.6	55	61		67				

外形及安装尺寸 Outline and mounting dimensions

- 16A~1600A 安装图(两进一出)
16A~1600A installation diagram (two in and one out)



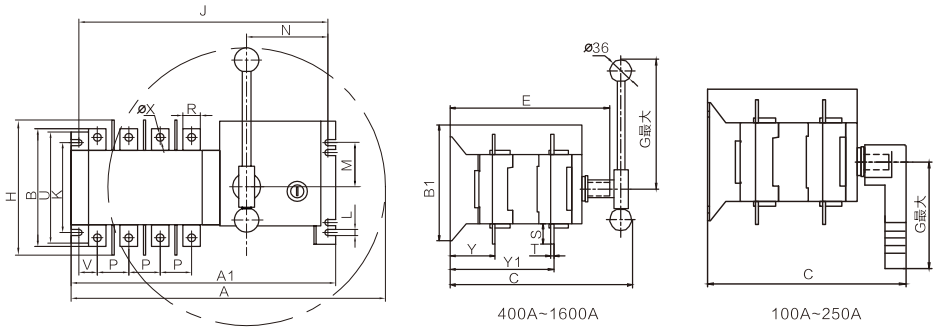
YFQ4双电源自动切换装置

YFQ4 Dual Power Automatic Switching Device

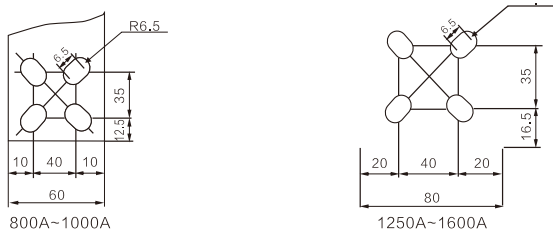
• 32A~1600A安装尺寸(两进一出)
32A~1600A Installation size (two in one out)

规格 Specifications	总尺寸 Overall dimension								开关安装 Switch installation											接线端子 Wiring terminal					
	A	A1	B	B1	C	E	G	H	J	K	L	M	N	P	R	S	S1	T	T1	U	V	ΦX	Y	Y1	Y2
32-100A	270	245	110	103	170	142	115	146	226	84	7	44	81	30	14	18	23	2.5	5	103	12	6	40.5	92	67.5
125-160A	348	305	147	142	224	190	144	185	284	102	7	49	91	36	20	25	37	3.5	/	127.5	19	9	56	127.5	127.5
250A	411	368	170	142	224	190	144	200	352	102	7	49	91	50	25	29	40	3.5	/	141.5	28	11	56	130	130
400A/3P	525	374	249	222	305	268	250	290	354	179	9	96	91	65	32	37	52	5	/	222	38	11	83	193	193
400A/4P	585	435	249	222	305	268	250	290	415	179	9	96	91	65	32	37	52	5	/	222	38	11	83	193	193
630A/3P	525	374	265	222	305	268	250	290	354	179	9	96	91	65	40	45	61	6	/	222	38	12	83.5	193.5	196
630A/4P	585	435	265	222	305	268	250	290	415	179	9	96	91	65	40	45	61	6	/	222	38	12	83.5	193.5	196
800-1000A/3P	785	520	352	250	390	326	360	/	496	220	11	115	84	120	60	64	88	8	/	250	56.5	13	109	254	254
800-1000A/4P	1080	635	352	250	390	326	540	/	610	220	11	115	84	120	60	64	88	8	/	250	60.5	13	109	254	254
1250A/3P	785	520	368	250	390	326	360	/	496	220	11	115	84	120	80	68	100	8	/	250	56.5	13	109	254	254
1250A/4P	1080	635	352	250	390	326	540	/	610	220	11	115	84	120	80	64	100	8	/	250	60.5	13	109	254	254
1600A/3P	785	520	376	250	390	326	360	/	496	220	11	115	84	120	80	68	108	10	/	250	56.5	13	110	255	255
1600A/4P	1080	635	376	250	390	326	540	/	610	220	11	115	84	120	80	68	108	10	/	250	60.5	13	110	255	255

• 16A~1600A安装图(两进两出)
16A~1600A installation diagram (two in and two out)



• 1000A~1600A安装图
1000A~1600A installation diagram



YFQ4双电源自动切换装置

YFQ4 Dual Power Automatic Switching Device

YIFA®伊发
股票代码:870154

• 32A~1600A安装尺寸（两进两出）
32A~1600A Installation size (two in two out)

规格 Specifications	总尺寸 Overall dimension								开关安装 Switch installation											接线端子 Wiring terminal			
	A	A1	B	B1	C	E	G	H	J	K	L	M	N	P	R	S	T	U	V	ΦX	Y	Y1	
32-100A	270	245	106	103	170	142	115	146	226	84	7	44	81	30	14	18	2.5	103	12	6	40.5	92	
125-160A	348	305	135	142	224	190	144	185	284	102	7	49	91	36	20	25	3.5	127.5	19	9	56	127.5	
250A	411	368	159	142	224	190	144	200	352	102	7	49	91	50	25	29	3.5	141.5	28	11	56	130	
400A/3P	525	374	234	222	305	268	250	290	354	179	9	96	91	65	32	37	5	222	38	11	83	193	
400A/4P	585	434	234	222	305	268	250	290	414	179	9	96	91	65	32	37	5	222	38	11	83	193	
630A/3P	525	374	250	222	305	268	250	290	354	179	9	96	91	65	40	45	6	222	38	12	83.5	193.5	
630A/4P	585	435	250	222	305	268	250	290	415	179	9	96	91	65	40	45	6	222	38	12	83.5	193.5	
800-1000A/3P	785	520	328	250	390	326	360	/	496	220	11	115	84	120	60	64	8	250	56.5	13	109	254	
800-1000A/4P	1080	635	328	250	390	326	540	/	610	220	11	115	84	120	60	64	8	250	60.5	13	109	254	
1250A/3P	785	520	336	250	390	326	360	/	496	220	11	115	84	120	80	68	8	250	56.5	13	109	254	
1250A/4P	1080	635	336	250	390	326	540	/	610	220	11	115	84	120	80	64	8	250	60.5	13	109	254	
1600A/3P	785	520	336	250	390	326	360	/	496	220	11	115	84	120	80	68	10	250	56.5	13	110	255	
1600A/4P	1080	635	336	250	390	326	540	/	610	220	11	115	84	120	80	68	10	250	60.5	13	110	255	

• 2000A~3200A安装图（两进一出）
2000A~3200A installation diagram (two in and one out)

