

HATS8系列 双电源自动转换开关 DUAL POWER AUTO TRANSFER SWITCH



■ 适用范围及特点 Applicable rang and features

HATS8 系列双电源自动转换开关的我公司根据国外先进技术开发的新一代产品。它以高性能单片机为控制系统核心，配以液晶大屏幕中文显示各种数值和工作状态，操作简便。是一种性能完善、安全可靠、自动化程度高、使用范围广的职能型双电源自动转换开关。产品适用于交流 50HZ、690V 及以下，额定电压至 1600A 及以下的两路电源（常用电源 N 和备用电源或发电机电源 R）的供电系统中，因一路电源发生故障（停电、欠压、断相）而进行电源之间的自动切换，以保证供电的可靠性和安全性。广泛应用于高层建筑、住宅小区、医院、机场、码头、消防、冶金、化工、纺织等不允许停电的重要场所，实现无人值守连续供电。
本产品符合 IEC60947-6-1(1998)《低压开关设备和控制设备自动转换开关电器》标准。
本产品电器级别为 CB 级

HATS8 series automatic transfer switch is a new generation of products developed with the advanced international technology. It takes high-performance SCW as the core of control system, using LCD indicating various data and working states in Chinese, it is very convenient to operate. In a word, it is an intelligent automation transfer switch with dual power supplies with the features of perfect performance, safety and reliability, high automation and wide application range.

The products are suitable for dual-power system (normal power N and reserve power or generator power R) of AC 50HZ, 690V and below, rated current 1600A and below, it can transfer the power supplies automatically when one circuit of power supply has the fault (power failure, under voltage, phase failure), to guarantee the reliability and safety. This product is widely used in the important fields where need the continuous power supply such as high rise building, residential area, hospital, airport, port, fire control, metallurgy, chemical engineering, textile, etc..

This product is in conformity with the standard of IEC60947-6-1(1998) Low Voltage Switchgear and Controlgear Automatic Transfer Switching Equipment. The electric class of this product reaches CB.

■ 产品型号及其含义 Model description

功能代号:

自投自复式用“R”表示; 自投不自复式用“S”表示; 电网-发电用“F”表示; 带消防分励用“X”表示; (R、S 正常工作不标)。

机构形式代号: 一体式用“Y”表示; 分体式用“F”表示

极数: 按产品极数分为三级 四级

壳架等级额定电流: 100、225、400、630、800、1250、1600

■ 结构和性能 Structure and performance

◎结构 Structure

HATS8 系列智能型双电源自动转换开关（以下简称自动转换开关）是由智能型自动控制器和装置本体组成。

自动控制器由电压监测单元、单片机控制系统和输出模块组成。自动控制器具有完整的塑料外壳，可和装置本体安装在同一金属底板上，构成连体式自动转换开关；也可单独安装在箱、柜的门板上，构成分体式自动转换开关，装置本体和自动控制器用长度不超过 1.5m 的专用电缆连接；还可根据用户需要，将自动转换开关置于成套箱柜内，构成成套式自动转换开关。

装置本体是由两台带有电动操作机构的高性能塑壳式断路器、带机械联锁的操作机构、熔断器、接线端子等组成，所有元件均能安装在一块金属底板上，机械联锁机构安装在两台断路器之间，保证同时只能有一台断路器合闸工作。

■ 性能 Performance

自动转换开关可完成三相三线、三相四线的双电源供电系统的电源自动切换。控制器的工作电源 12VDC 由发电机自备的蓄电池提供，可完成发电机自启动并执行切换。并具有过电流保护功能。

◎Function code: “R” denotes the self-input self-restoring type; “S” denotes self-input no self-restoring type; “F” denotes the power grid/generator; “X” denotes the fire shunt release; (R and S are not marked in normal delivery).

◎Code of structure type: “Y” denotes the integrated type; “F” denotes the separated type.

◎Number of pole: three poles and four poles

◎Frame size: 100,250,400,630,800,1250,1600

HATS8 serious automatic transfer switch (hereinafter referred to as ATS) is made up of intelligent automatic controller and device body.

The automatic controller is made up of voltage monitoring unit, SCM control system and output module. The automatic controller has perfect plastic enclosure, it can be mounted on the same metallic base plate with the device body, to form an integrated type automatic transfer switch, and also, it can be installed on the door plate of cabinet separately, to form a separated type automatic transfer switch. The device body is connected with the automatic controller with the special cable less than 1.5m long. In addition, the automatic transfer switch may be set in the complete cabinet, to form a complete automatic transfer switch, according to customer's demands.

The device body is composed of two high-performance moulded-case circuit breaker with electric operation mechanism, operation mechanism with mechanical interlock, fuse, connection terminal, etc. all elements are mounted on a same metallic bottom plate, the mechanical interlocking mechanism is installed between two circuit breakers, to guarantee only one circuit breaker can close.

HATS8 can complete the automatic power transfer for three-phase three-wire and three-phase four-wire dual-power system.

The controller is operated by 12VDC from battery of generator, the generator can be started by self and changeover the switch to working condition, it with over current protection function.

■ 主要技术参数 Main technical parameters

自动转换开关的使用寿命 (N-R-N 循环) 及参数 Service life of automatic transfer switch(N-R-N circle) and parameters			
型号 Model	HATS8-100-225	HATS8-400	HATS8-630-800
电寿命 (次) Electrical life(times)	1000	1000	500
机械寿命 (次) Mechanical life(times)	5000	3000	2500
使用寿命总次数 (次) Total times of service life(times)	6000	4000	3000
额定工作制 Rated duty	不间断工作制 Uninterrupted duty		
欠电压切换整定值 Setting value of under voltage transfer	75%(不可调节, 出厂已调整好) (The product has been adjusted before leaving factory, so it can't be set)		
触头转换时间 Contact transfer switch	≤2S		
切换可返回延时 Returnable time delay in transfer	0.1~99.9s(可调 Adjustable)		

■ 执行断路器各极同时通电进反时限动作特性

Inverse time-delay operation characteristic of actuating circuit breaker when each pole is electrified simultaneously.

额定电流 Rated current	$I_n \leq 63$	$63 < I_n \leq 125$	$125 < I_n \leq 800$
1.05I _n 不动作时间 (冷态) 1.05I _n non-operating time(cold)	≥1h	≥2h	≥2h
1.3I _n 动作时间 (热态) 1.3I _n operating(hot)	<1h	<2h	<2h
瞬时动作电流 Instantaneous operation current	10I _n ±20%	10I _n ±20%	5I _n ±20%、10I _n ±20%

■ 自动转换开关主要技术性能 Main technical performance of automatic transfer switch

规格 Spec.	执行断路器 Actuating circuitbreaker	额定电流 Rated current (A)	额定工作电压 Rated working voltage (V)	额定极限短路分断 能力 Rated ultimate short-circuit breaking capacity (KA)	额定运行短路分断 能力 Rated service short-circuit breaking capacity (KA)
HATS8-100/3	M-100/3	10, 16, 20, 25, 32	400	35	22
HATS8-100/4	M-100/4	40, 50, 63, 80, 100	400	50	35
HATS8-225/3	M-225/3	100, 125, 140, 160, 180, 200, 225	400	35	22
HATS8-225/4	M-225/4		400	50	35
HATS8-400/3	M-400/3	250, 315, 350, 400	400	50	35
HATS8-400/4	M-400/4		400	65	42
HATS8-630/3	M-630/3	400, 500, 630	400	50	35
HATS8-630/4	M-630/4		400	65	42
HATS8-800/3	M-800/3	630, 700, 800	400	75	50
HATS8-800/4	M-800/4	630, 700, 800	400	75	50
HATS8-1250/3	M-1250/3	800, 1000, 1250	400	85	65
HATS8-1250/4	M-1250/4	800, 1000, 1250	400	85	65
HATS8-1600/3	M-1600/3	1000, 1250, 1600	400	95	75
HATS8-1600/4	M-1603/4	1000, 1250, 1600	400	95	75

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