# **SRD02 ON/OFF TYPE DAMPER ACTUATOR**

(10, 15, 20, 30Nm)

#### DESCRIPTION

SRD02 on/off type damper actuator uses bi-directional motor to control the damper. They are widely applied for damper controls of HVAC systems and water systems, and also used for controlling global valve.

#### **CHARACTERISTICS**

- HIGH DEPENDABLE PERFORMANCE
- SRD02 on/off type damper actuator uses bi-directional magnetic clutch synchronous motor. It has overload protection function, and does not need limitator switch. The actuator will stop automatically, because the motor is

clutched when it is operating to the end. And the damper actuator has a better precision adjustable mechanical limitator, and 1~2 auxiliary switches can be selected for optional.



Optional overtime protection for longer motor life.

1 or 2 optional auxiliary switch(es), the function of which can be made by order. The operational angle of the damper actuator which has 2 limitators can be adjusted by setting the peak turnplate. The adjustable feedback position is larger than 60° on clockwise, and small than 30° on anti-clockwise. Please find the installation details at Fig.4. The default setting of one switch type is at 90°, and that of two switches type is at 0° and 90°.

The 24 volt DC self-setting function is only for 24 volt AC damper actuator. It can supply enough power to let the damper actuator go back to 0°, when power supply is suddenly cut off.

SIMPLE AND CONVENIENT FUNCTION TESTING

It is also convenient to test the function of damper operation: press the manual button on the actuator, the gearings inside the actuator will break away. The damper can be operated manually when keep pressing the manual button. PLEASE DO NOT OPERATE WHEN POWER ON!

SIMPLE INSTALLATION

Fix the damper actuator on the damper shaft by universal holder. (Various special actuator holding bracket can be supplied according to customers' requirements.)

#### MODEL SELECTION

#### SRD02 ADDITIONAL CODE: PRODUCT CODE: T: With overtime protection Damper actuator FK1: With 1 position-feedback switch TORQUE CODE: FK2: With 2 position-feedback switches 10: 10Nm LK2: With 2 limitators 15: 15Nm DR: 24 Vdc self-resetting (only for 24 Vac products) 20: 20Nm Omitted: Standard on/off type VOLTAGE: 024: 24 Vac 30: 30Nm 110: 110 Vac

e.g. 1: Model name "SRD02-10024" measns the standard 10Nm damper actuator of 24 volt AC.

120: 120 Vac 220: 220 Vac 230: 230 Vac

STANDARD SETTING BRACKET

e.g. 2: Model name "SRD02-15230FK2" means the 15Nm damper actuator of 230 volt AC, with 2 position-feedback switches.

e.g. 3: Model name "SR002-30110T" means the 30Nm damper actuator of 110 volt AC, with overtime protection.

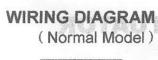
#### SPECIFICATIONS AND TECHNICAL DATA

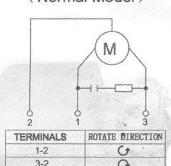
MODEL	SRD02-10XXXXXX	SRD02-15XXXXXX	SRD02-20XXXXXX	SRD02-30XXXXXX					
TORQUE	≥10Nm	≥15Nm	≥20Nm	≥30Nm					
OPERATION TIME (50Hz/90°)	≈66s	// ≈90s/	≈110s	≈143s					
NET WEIGHT	1 1 1 1 1.3	3 kg	1.6	1.67 kg					
CABLE	0.5~1.5mm <sup>2</sup>								
ROTATE ANGLE	90° <mechanical 95°<="" limitation≤="" td=""></mechanical>								
NOISE LEVEL		Maximum 45dB(A)							
IP CLASS		IP IP	42						
AMBIENT TEMP.	-5°C ~ +50°C								
STORAGE TEMP.	* The accessories include 2 limitativ 2°07 http://de.ifle.setscrews (M3×6), and 1 actuator								
USEFUL LIFE	>60000 cycles								

<sup>\*</sup> Power supply: rated voltage±10%

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<sup>\*</sup> Power consumption: 4.5VA for 24, 110 and 120 Vac; 8.5VA for 220 and 230Vac.





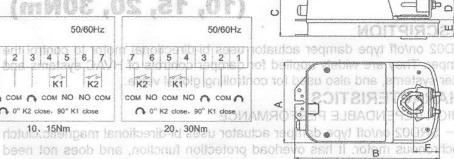
# (Model with auxiliary switch)





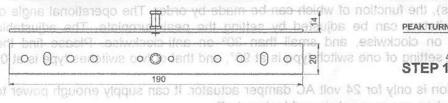




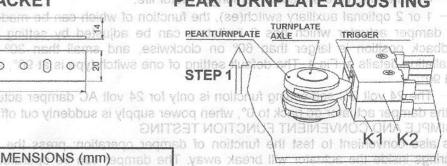


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### STANDARD SETTING BRACKET



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3	PEAK	TURN	IPLA	TE.	ADJ	JSTING



when keep pressing t	viteuramDIMENSIONS (mm)eqmab er						
MODEL	А	В	С	PiO	SEAN C	9 ¥3	
SRD02-10XXXXXX	108	174	70 <sup>B</sup>	39 <sup>b</sup>	26	31	
SRD02-15XXXXXX	108	174	70	39	26	31	
SRD02-20XXXXXX	124	196	69	39	26	35	
SRD02-30XXXXXX	124	196	69	39	26	35	

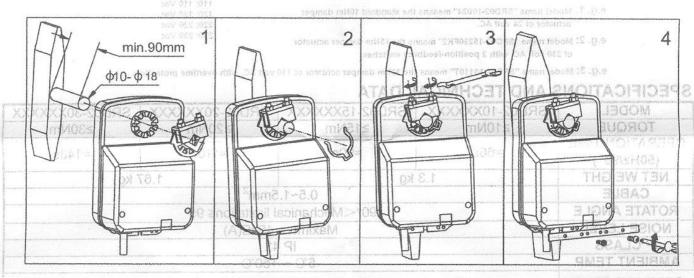
manual button. PARgidE DO NOT OPERATE V

## SIMPLE INSTALLATION Fix the damper actuator on Charles Pairteat

- 1. Take the peak turnplate out. believe ad
- 2. Turn the axle to the needed position, then put the peak turnplate back, make sure the peak is just against the trigger. (As Fig.4)

DO NOT OPERATE WHEN POWER IS ON!

#### INSTALLATION DIAGRAM



\* The accessories include 2 limitative baffles, 2 baffle setscrews (M3×6), and 1 actuator setting gasket.

Power consumption: 4.5VA for 24, 110 and 120 Vac; 8.5VA for 220 and 230Vac

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