

ELECTRIC ACTUATOR SA 05 -SA 05X - SCP

FEATURES

The SA 05 SCP electric actuator is designed to motorize 1/4-turn valves for industrial use with a safety function. The operating torque is 50 Nm. This actuator is equipped with super capacitors enabling it to operate once (open or close) in the event of a power failure. The charging time of the super capacitors must be taken into account. With its compact, sturdy construction and epoxy-coated IP67 aluminum housing, the SA actuator is particularly well suited to motorizing ball and butterfly valves installed in workshops or outdoors. The SA 05 SCP is equipped with a key-operated manual override and a 3D visual position indicator. It complies with standard EN 15714-2. The SA 05X version can be used in hazardous areas 1G and 2G.

AVAILABLE MODELS

Power supply : 230V AC (50-60Hz), 24V DC

ATEX Version : Cable gland and plug not supplied.

LIMITS OF USE

Protection class	IP 67	
Ambient temperature	SA05 SCP	SA05X SCP
	- 20°C / +70°C	- 20°C / +55°C
Service factor	S2-70%	



HOMOLOGATION ATEX

Protection mode	"db" in accordance with standard EN 60079-1
Category of equipment	2
Areas of use	1G and 2G
Marking	II 2 G Ex db IIB T6 Gb (ON KEMA)

MECHANICAL CHARACTERISTICS

Gear box	Treated steel pinions
Torque	50 Nm
Rotation angle	90° ± 5°
Clutch release	Without
Overriding control	By key

Actuator	SA05 / SA05X + SCP	
Voltage	230V AC	24V DC
Torque (Nm)	50	
Manoeuvring time (s)	8	8
ISO 5211	F03/F05/F07 star 14	



SA05 + SCP

SA05X + SCP



Information given as an indication only, and subject to possible modifications



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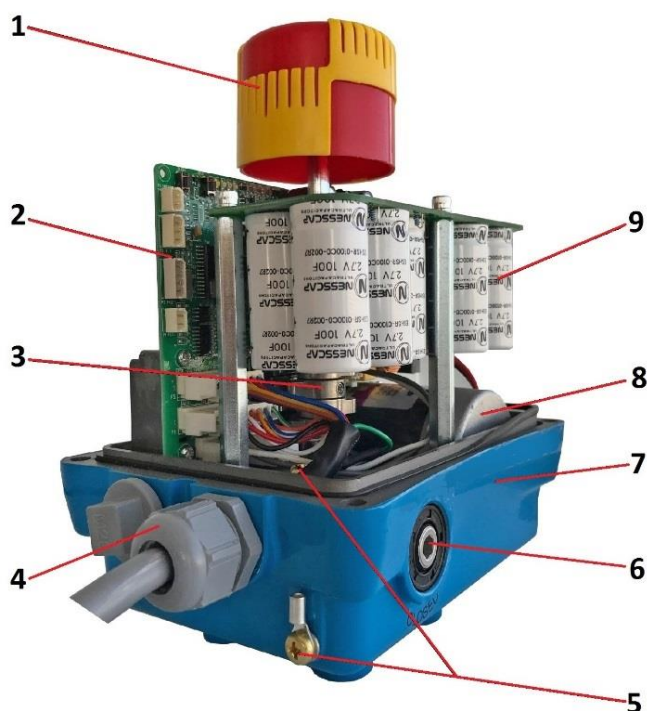
ELECTRICAL FEATURES

Motor protection	Thermal limiter	Resistance heater	5W resistor
Limit switches	2 adjustable switches	Electrical connections	With 1.5 meter cable
Auxiliary switches	2 adjustable dry switches		

Electric actuator	SA 05 / SA05X + SCP	
Voltage	230V CA	24V CC
Power (W)	120	60
Intensity (A)	0,51	2,25
No. of emergency manoeuvres	1	
Charge voltage	26,5 V	
Load current (A)	0,6	2,4
Charging time	4 min 30 sec	2 min 15 sec

CONSTRUCTION

N°	Name
1	Position indicator
2	Electronic board
3	Electrical cams
4	Cable entry
5	Earth connection
6	Manual control
7	Housing
8	Terminal block
9	Capacitors



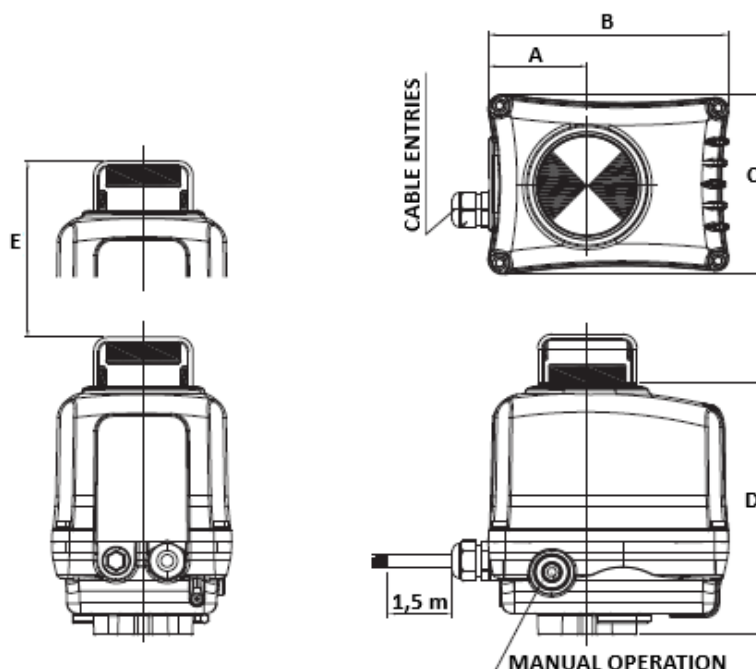
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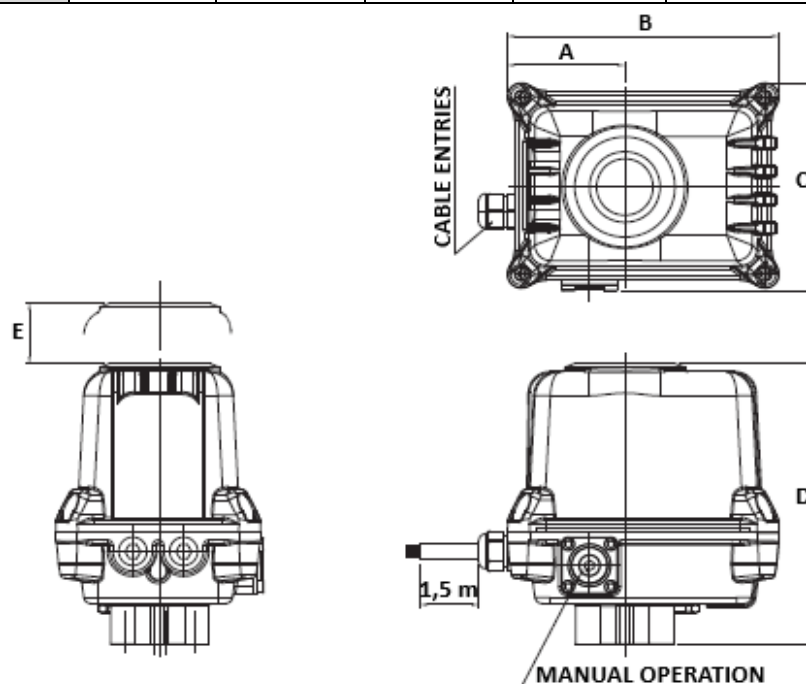
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DIMENSIONS (mm) and WEIGHT (Kg)

Dimensions (mm)	A	B	C	D	E	Weight (Kg)
SA05 - SCP	70	170	127	177,5	140	4,3



Dimensions (mm)	A	B	C	D	E	Weight (Kg)
SA05X - SCP	83	193	147	199	140	4,3



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SPARE PARTS

Electrical actuator SA05 / SA05X + SCP	
Gear box	
Circuit board + capacitor	
Electric actuator	
https://www.sectoriel.com/fr/sa05scp-servomoteur-electrique-retour-condensateur-50nm-ip67.html	

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ASSEMBLY AND MAINTENANCE INSTRUCTIONS



SA05 + SCP



SA05X + SCP



1. DESCRIPTION

- 1.1 Electric actuator for the motorization of 90° operating valves.
- 1.2 Find the full characteristics of this device on the FT23065 sheets.
- 1.3 Before using this device, read these instructions carefully.

2. WARRANTY

- 2.1 Before any relationship with our services, identify the type of actuator.
- 2.2 SECTORIEL actuators are guaranteed for 12 months from the date of delivery. Parts recognized defective by an expertise in our factory will be replaced at our expense. Claims caused by improper use or modification of the actuator won't be considered.

3. CHECKS UPON RECEIPT

- 3.1 Upon receipt, check :
 - That the packaging is in good condition.
 - That the actuator complies with the order.
 - That the equipment is not damaged.
- 3.2 It is recommended that the actuator be installed upon receipt and not left unused. If the equipment must be stored, it must be in a dry place protected from bad weather.

4. PRECAUTIONS FOR USE

- 4.1 Before any installation, ensure that the installation is completely depressurized and brought to room temperature.
- 4.2 Do not install this actuator in an area classified as explosive.
- 4.3 The protection class of the actuator is IP67 for indoor or outdoor installation. Do not install this actuator in a marine environment or immerse it.
- 4.4 The actuator must not be electrically powered during installation and maintenance of the valve on the piping and the actuator on the valve
- 4.5 Before making the electrical connection, check the supply voltage of the actuator.
- 4.6 Do not connect the actuator in series or parallel with other electric motors. If necessary use relays.
- 4.7 Do not mount the actuator on valves with a torque greater than the nominal torque of the actuator.

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5. INSTALLATION AND USE

5.1 Install the actuator on the valve (already done for the assemblies assembled in our workshops)

5.2 Carry out the electrical wiring as shown in the diagram below.



Safety actuator: charge the supercapacitors before commissioning. The emergency function will not be operational if the supercapacitors are not charged.

Loading time	
24 V CC	230 V CA
2 min 15 sec	4 min 30 sec

5.3 Adjust the end stops (already done for the assemblies assembled in our workshops).

5.4 Visualize the valve movement using the indicator light on the hood.

5.5 SA 05 / SA 05X-SCP actuator: To operate the manual control, first disconnect the power supply electric then operate the hollow hexagonal screw using a 6 mm hex key.

6. ADJUSTING THE LIMIT SWITCHES

6.1 The cams are fixed on the drive shaft.

6.2 Clockwise rotation = valve closing. The microswitch stops the actuator.

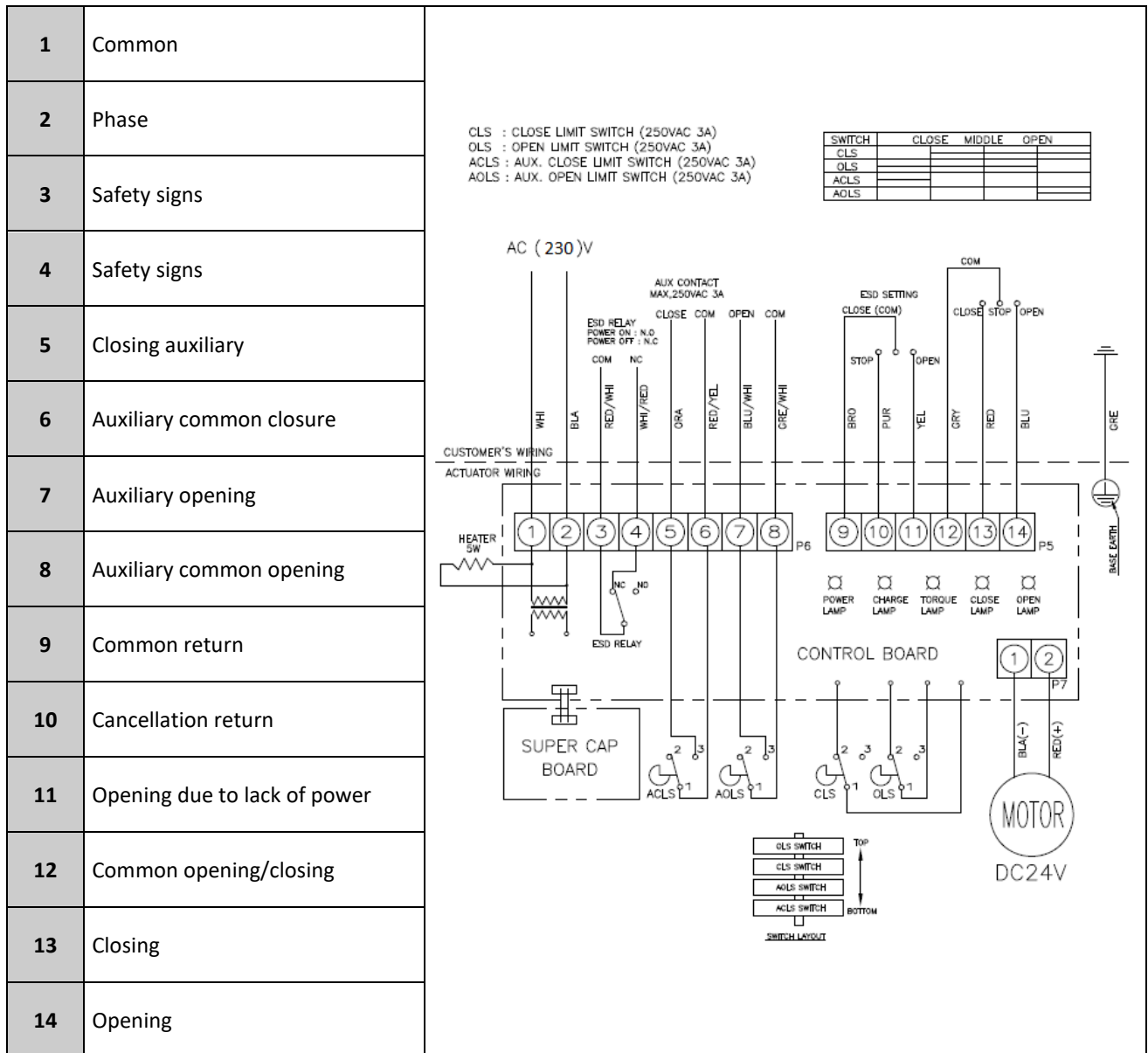
6.3 Counterclockwise rotation = valve opens. The microswitch stops the actuator.

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7. WIRING DIAGRAM 230V AC 50Hz

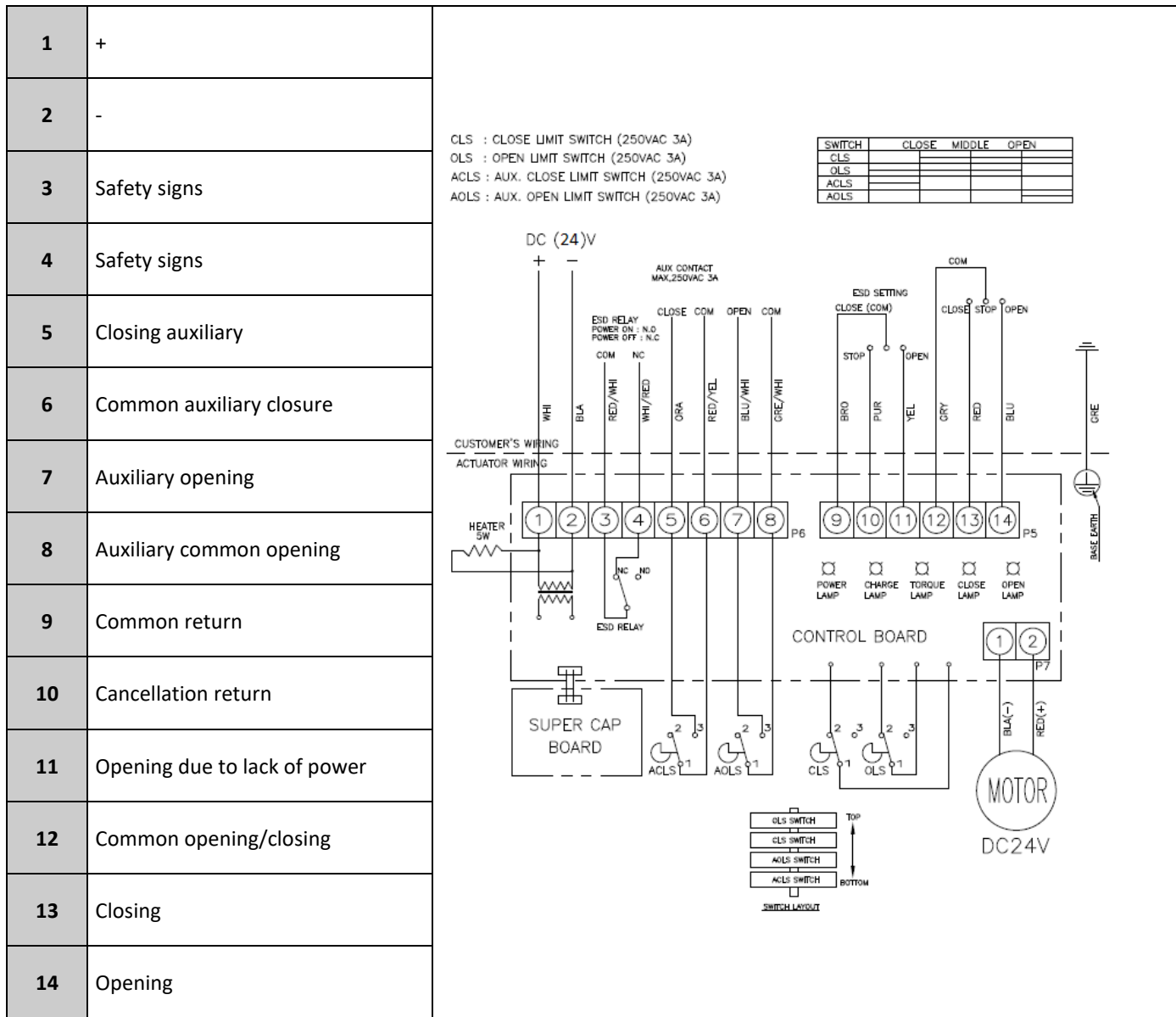


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8. 24V AC/DC WIRING DIAGRAM



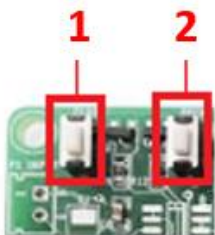
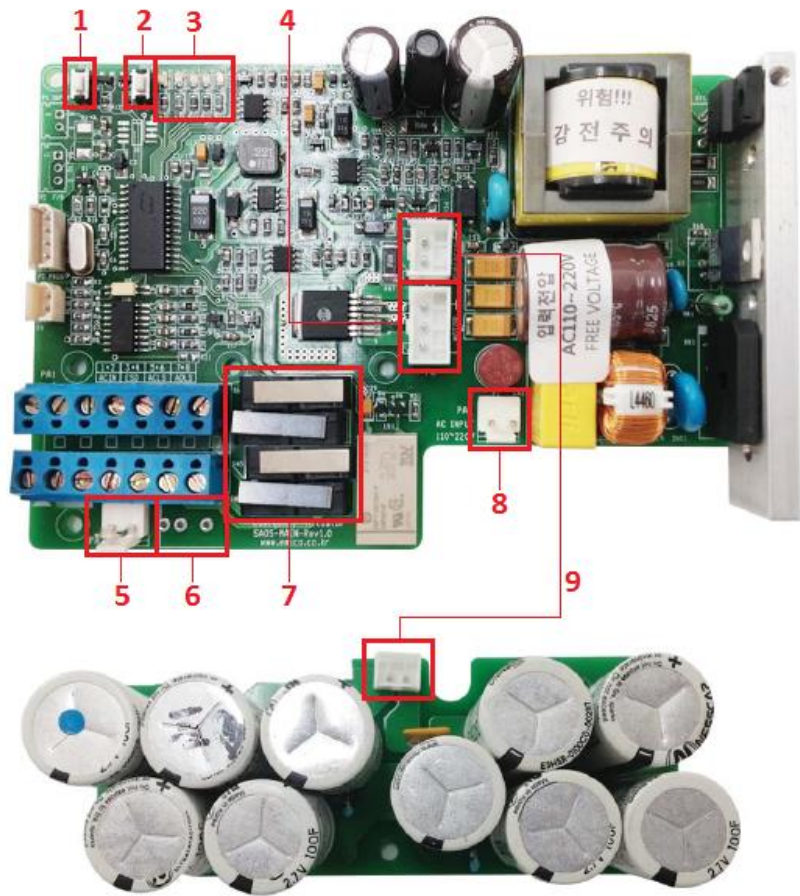
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9. SCP CIRCUIT

No.	Designation
1	Close button
2	Open button
3	Indicator lights
4	Engine connector
5	220V connector
6	Resistances
7	Limit switches
8	220V connector
9	Power, capacitor and card connector



- 1 - Closing: closing takes place when the button is pressed.
 2 - Opening: Opening takes place when the button is pressed.

- 3 - Power indicator lights/Blue if motor powered.
 4 - Indicator lights charge/off when charged.
 5 -Torque indicator lights/lights up if over-torque.
 6 -Closing indicator light/lights up green when fully closed.
 7 -Opening indicator light/lights up red if fully open.

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