

电动执行机构

Electric Actuators

用户手册

User manual

天津市宝恒自控系统有限公司

TIANJIN BAOHENG AUTOMATIC CONTROL SYSTEM CO.,LTD
TianJin.China

Contents

- 1: Brief description
- 2: Application
- 3: specification and dimensions
- 4: Wiring diagram
- 5: Mounting and adjustment

1: Brief description

Baoheng automatic control system limited, a key enterprise of China, specializes in the development and production of electric actuators. It's also the early enterprise to do that. And has so far a history 15 years. There rich technical human, including over hundreds technician, senior engineers, skilled workers, At same time there are whole advanced (equipment) and measure instrument.

We are certified ISO9001 in 2001

This actuator are provided with advance grade in the China. It is very convenient for adjustment and maintenance. The products are extensively used in automatic control system in the process of power station, metallurgical, chemical, petroleum, building materials, light industry and water treatment plant.

2: Application and Technical data

Application

The DKJ range Electric actuator is a unit in the testing and regulating instrument of the combined electric units. It receives signal "on" "off" from regulating unit (DCS), or hand-controlled signal from operating unit, automatic operates the regulation mechanism, and accomplishes its regulation task. It is used in connection with a kinds valves and others.

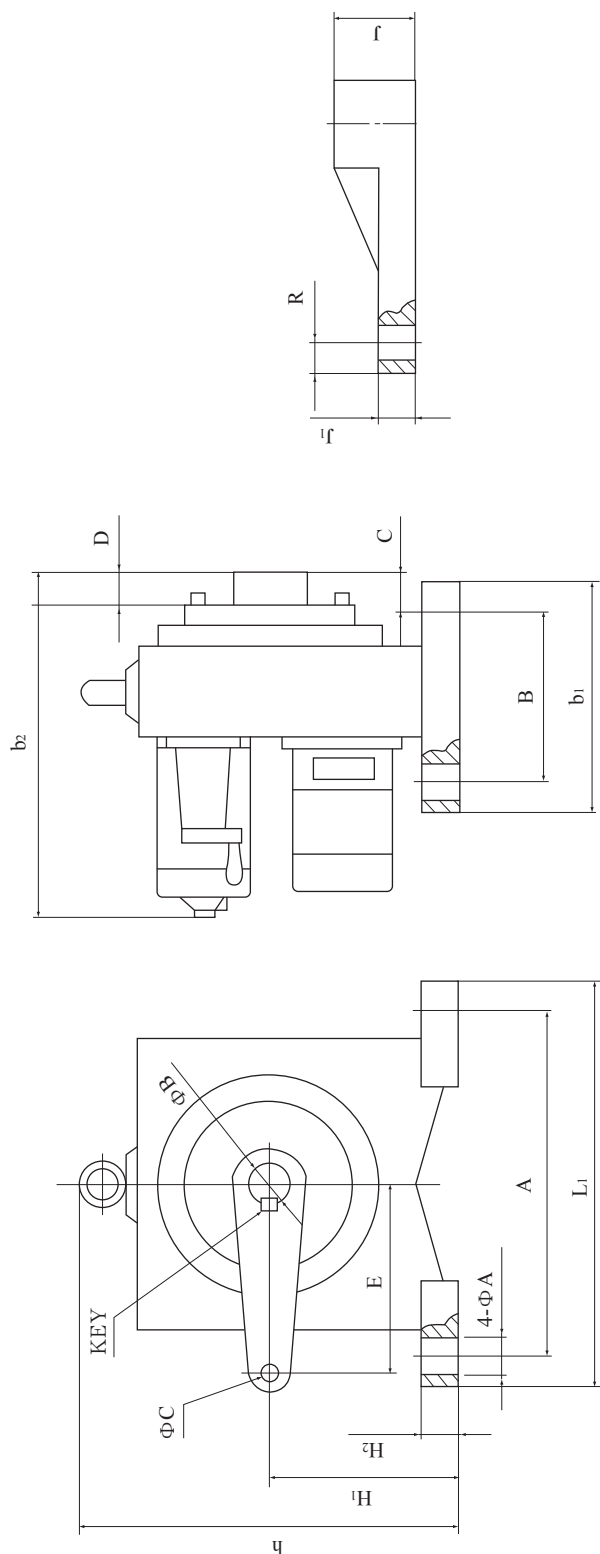
Technical data

- 1: Input signal: "on-off" with voltage AC220V 50Hz
- 2: position signal 4-20mA
- 3: linearity 1.5% (option with positioner type CR-2)
- 4: Operating environment temperature -25--+65 C
- 5: protection class: in according with IEC IP44

3: Specification and dimension

Specification

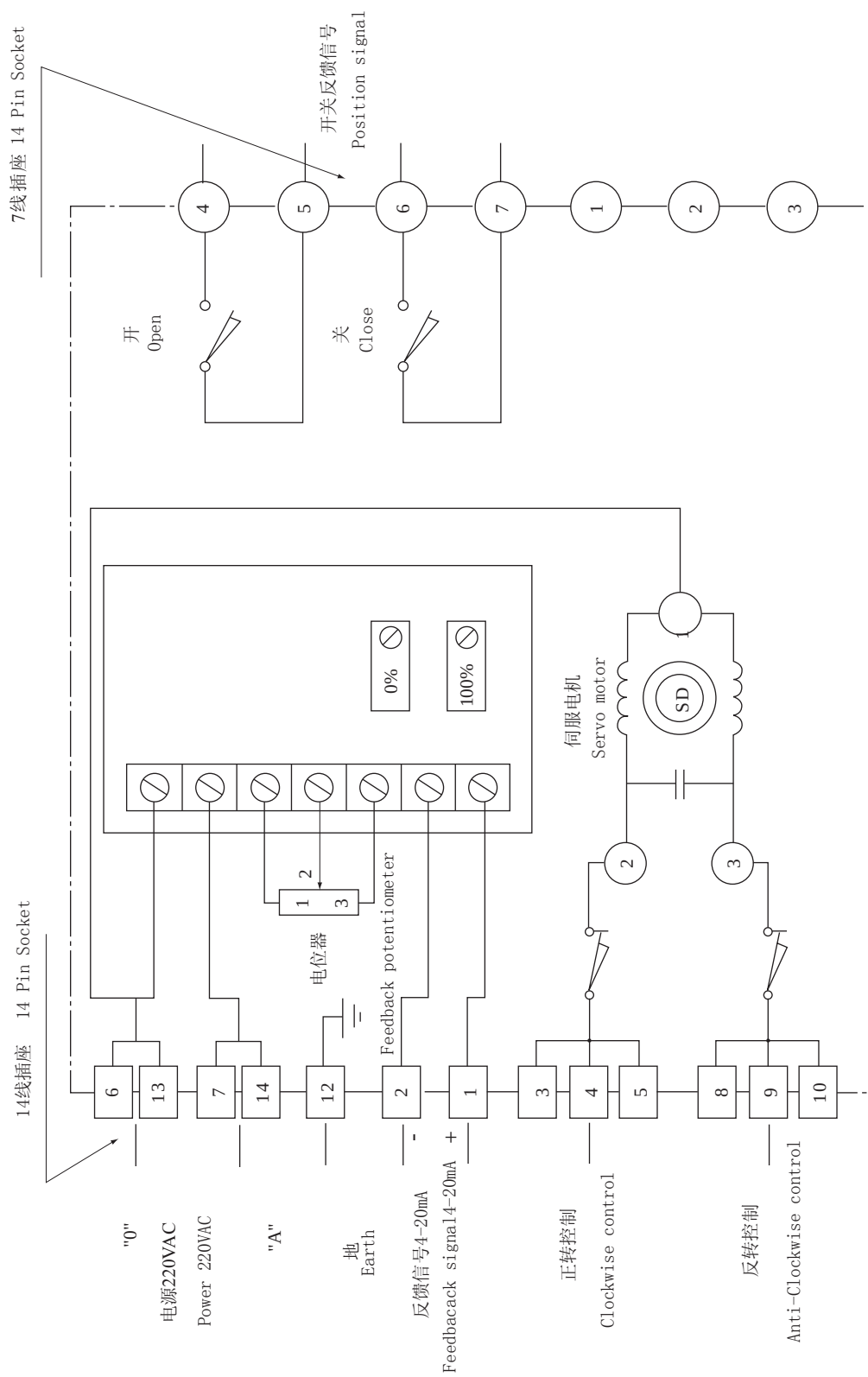
TYPE	DKJ-210	DKJ-310	DKJ-410	DKJ-510	DKJ-610A	DKJ-610	DKJ-710	DKJ-810
	DKJ-2100	DKJ-3100	DKJ-4100	DKJ-5100	DKJ-6100A	DKJ-6100	DKJ-7100	DKJ-8100
OUTUT TORQUE Nm	100	250	600	1600	2500	4000	6000	10000
OPERRATION TIME (S)	25				36	55	65	120
MOTOR POWER (W)	16	28	67	180	180	180	250	250



Configuration and installing dimension of DKJ range

型 号	A	B	C	D	E	H ₁	H ₂	ΦA	ΦB	ΦC	KEY	L ₁	b ₁	b ₂	h	J ₁	J	R
210 DKJ-2100	220	130	90	41	100	125	20	Φ12	Φ25	Φ14	C8×35	245	152	411	275	15	35	15
310 DKJ-3100	260	100	117	53	120	135	20	Φ13	Φ35	Φ16	C10×50	300	130	441	300	24	50	17
410 DKJ-4100	320	130	142	62	150	170	30	Φ14	Φ40	Φ18	C12×60	365	162	510	380	23	60	20
510 DKJ-5100	390	180	121	82	170	196	35	Φ14	Φ58	Φ20	C18×40	420	210	660	440	25	80	29
610A DKJ-6100A	390	180	182	87	200	196	35	Φ14	Φ65	Φ30	C18×85	450	240	730	444	35	85	29
610 DKJ-6100	420	200	251	102	200	230	35	Φ18	Φ75	Φ35	C20×100	480	260	760	490	40	100	33
7100 DKJ-8100	480	200	200	84	280	248	35	Φ20	Φ78	Φ35	C20×80	550	270	745	510	34	80	32

4: Wiring diagram



5: Mounting and adjustment

Mounting

- 1: When the actuator is mounted, there have enough space around it for site manual operating, adjusting and checking.
- 2: The actuator should be installed on the frame of concrete or metal, and fixed by the foundation screws. The output arm is connected with the object by using the joint rod or special used hinge. The connecting interval shouldn't be too large.
- 3: Checking the insulation condition of all electric conducting parts by using a 500V MΩ meter and the wiring of the actuator.
- 4: The actuator has been lubricated when it leaves the plant.

Adjustment

After the actuator is mounting and wiring, it needs to be set and adjusted to guarantee that the travel of the actuator is accordant with the travel of the valve. The adjustment includes two parts of mechanical, electric position limit adjustment .

DKJ RANG

