

SISTEMA[®]

CONTROL BOX



EIC Series



Product Description

EIC is a variable frequency controller based on inverter technology capable of automatic control water pump start and stop. Apart from the functions of periodic water level scan and system leak detection, it possesses various protective features as well such as water shortage, overvoltage, undervoltage and over-current protection. The application of such specific technology can regulate the motor frequency according to output water rates to change its speed, thus pressure at the user's side will remain constant and the power consumption would be at ratios with the actual system requirement which will result in significant energy saving over time.



EIC-5
Three-phase frequency converter

RoHS

| Technical Parameters | |
|--------------------------|------------|
| Power supply: | 220VAC±10% |
| Max. power: | 0.75KW |
| Protection rating: | IP54 |
| Frequency modulation: | 30Hz-60Hz |
| Max.working temperature: | 60°C |



EIC-6
Three-phase frequency converter

RoHS

| Technical Parameters | |
|--------------------------|------------|
| Power supply: | 220VAC±10% |
| Max. power: | 1.1KW |
| Protection rating: | IP54 |
| Frequency modulation: | 30Hz-60Hz |
| Max.working temperature: | 60°C |



DSK Series

Product Description

DSK series electronic pressure controller for controlling various pump start and stop, which uses changes in pressure and flow within the system piping automatically start and stop the pump, that is, when there is water flow through the pipeline system, control the pump continued operation; when the user closes the water side, the pipeline system has pressure no flow, the controller turns off the pump into the pressure protection shutdown. End user opens the water line pressure is reduced to the starting pressure value of the controller, the controller automatically starts the pump; when the influent water, no water inside the pipe system, no pressure, the controller automatically cut off power supply, lack of water pump water against dry running protection. The products are widely used in homes, factories, mines and water tower systems, and high-rise building pressurized water supply system.



DSK-1

△ CE RoHS



DSK-1.1

an additional panel socket

RoHS



DSK-2

an extra model with wide operating voltage input

△ CE RoHS

Technical Parameters

| | | |
|----------------------------|----------------------|----------------------|
| Rated voltage: | 220V-240V 110V-120V | |
| Frequency: | 50/60Hz | |
| Max.current: | 10A | |
| Power: | 1.1kw (220V-240V) | 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar | |
| Max.working pressure: | 10bar | |
| Connection thread: | R1"/NPT" | |
| Protection rating: | IP65 | |
| Max.working temperature: | 60°C | |
| Flow: | 30-60L/H | |

Technical Parameters

| | | |
|----------------------------|----------------------|----------------------|
| Rated voltage: | 220V-240V 110V-120V | |
| Frequency: | 50/60Hz | |
| Max.current: | 10A | |
| Power: | 1.1kw (220V-240V) | 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar | |
| Max.working pressure: | 10bar | |
| Connection thread: | R1"/NPT" | |
| Protection rating: | IP65 | |
| Max.working temperature: | 60°C | |
| Flow : | 30-60L/H | |

Technical Parameters

| | | |
|----------------------------|-------------------------------|----------------------|
| Rated voltage: | 220V-240V 110V-120V 110V-240V | |
| Frequency: | 50/60Hz | |
| Max.current: | 10A | |
| Power: | 1.1kw (220V-240V) | 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar | |
| Max.working pressure: | 10bar | |
| Connection thread: | R1" | |
| Protection rating: | IP65 | |
| Max.working temperature: | 60°C | |
| Flow : | 60-160L/H | |



DSK-2.1

adjustable starting pressure through top adjustment mechanism

RoHS



DSK-2.2

an additional panel socket

RoHS



DSK-2.3

a refined top design together with adjustable starting pressure

RoHS

| Technical Parameters | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max. current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.5-3.0bar |
| Max. working pressure: | 10bar |
| Connection thread: | R1" |
| rotection rating: | IP65 |
| Max.working temperature: | 60°C |
| Flow : | 60-160L/H |

| Technical Parameters | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max. current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar |
| Max. working pressure: | 10bar |
| Connection thread: | R1" |
| Protection rating: | IP44 |
| Max. working temperature: | 60°C |
| Starting pressure setting: | 10bar |
| Flow : | 60-160L/H |

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.5bar-3.0bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1" |
| Protection rating: | IP65 |
| Max.working temperature: | 60°C |
| Flow : | 60-160L/H |



DSK-3

CE RoHS



DSK-4

optimized product appearance and improved performance-to-price ratio

CE RoHS



DSK-5

CE RoHS

| Technical Parameters | |
|-----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting : | 1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Inlet male thread : | G1" |
| Outlet female thread : | G1" |
| Protection rating: | IP54 |
| Max.working temperature: | 60°C |
| Flow : | 30-60L/H |

| Technical Parameters | |
|-----------------------------|--|
| Rated voltage: | 220V-240V 110V-230V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting : | 1.0bar、1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Connection thread: | G1" |
| Protection rating: | IP65 |
| Max.working temperature: | 60°C |
| Flow : | 30-60L/H |

| Technical Parameters | |
|-----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting : | 1.0bar-3.5bar |
| Max.working pressure: | 10bar |
| Connection thread : | G1" |
| Protection rating: | IP65 |
| Max. working temperature: | 60°C |
| Flow : | 280-400L/H |



DSK-8
 △ CE RoHS

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、 2.2bar、1.5-3.0bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1" |
| Protection rating: | IP65 |
| Max.working temperature: | 60℃ |
| Flow : | 30-60L/H |



DSK-8.1
 an additional panel socket

RoHS

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max. current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、 2.2bar、1.5-3.0bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1" |
| Protection rating: | IP44 |
| Max. working temperature: | 60℃ |
| Flow : | 30-60L/H |



DSK-9.1
 With UL approval at high power rating

UL RoHS

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max.current: | 30(16)A |
| Power: | 2.2kw (220V-240V) 1.1KW (110V-120V) |
| Starting pressure setting: | 1.2bar、1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1 1/4" |
| Protection rating: | IP65 |
| Max.working temperature: | 60℃ |
| Flow : | 30-60L/H |



DSK-9.2
 With adjustment mechanism and pressure gauge

RoHS



DSK-19
 △ CE RoHS

| Technical Parameters | |
|----------------------------|-----------------------------------|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max.current: | 30(16)A |
| Power: | 2.2kw(220V-240V) 1.1kw(110V-120V) |
| Starting pressure setting: | 1.5-3.0bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1 1/4" / R1 1/2" |
| Protection rating: | IP65 |
| Max.working temperature: | 60℃ |
| Flow : | 30-60L/H |

| Technical Parameters 技术参数 | |
|----------------------------|---|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1KW (220V-120V) 0.75KW (110V-120V) |
| Starting pressure setting: | 1.0 bar-3.0bar可调压 |
| Max.working pressure: | 10bar |
| Connection thread: | G1" |
| Protection rating: | IP54 |
| Max.working temperature: | 60℃ |
| Flow : | 60-160L/H |



DSK-26
 RoHS

| Technical Parameters | |
|-----------------------------|----------------|
| Rated voltage: | 220V-240V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Starting pressure setting : | 1.5-3.0bar 可调压 |
| Max.working pressure: | 6bar |
| Connection thread: | G1" |
| Protection rating: | IP68 |
| Max.working temperature: | 60℃ |



DSK-1P

Automatic timing start when it lacks of water

RoHS



DSK-2P

Automatic timing start when it lacks of water

RoHS



DSK-3P

Automatic timing start when it lacks of water

RoHS

Technical Parameters

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1" / NPT" |
| Protection rating: | IP65 |
| Max.working temperature: | 60℃ |

Technical Parameters

| | |
|----------------------------|--|
| Rated voltage: | 220V-240V 110V-120V 110V-240V |
| Frequency: | 50/60Hz |
| Max. current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.0bar、1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Connection thread: | R1" |
| Protection rating: | IP65 |
| Max. working temperature: | 60℃ |

Technical Parameters

| | |
|----------------------------|--------------------------------------|
| Rated voltage: | 220V-240V 110V-120V |
| Frequency: | 50/60Hz |
| Max.current: | 10A |
| Power: | 1.1kw (220V-240V) 0.75kw (110V-120V) |
| Starting pressure setting: | 1.5bar、2.2bar |
| Max.working pressure: | 10bar |
| Inlet male thread : | G1" |
| Outlet female thread : | G1" |
| Protection rating: | IP65 |
| Max.working temperature: | 60℃ |

Introduction of DSK-1P/2P/3P PRODUCTION DSK-1P/2P/3P

1.general information:

The series of DSK-1P-2P-3P are new generations from the original DSK-1/2/3 products with the introduction of built-in micro-computer MCU controlling system to replace the original logic IC system.Also,these products are added with new function of auto- reset and delayed auto-restart which which definitely simplifies the application .

2. Function

- A. Normal operation
- 1.The unit will start automatically in 2 seconds at the first time it is connected to power supply.
 - 2.During normal water consumption , the unit can stop automatically in 10 seconds if any of the taps is closed.
 - 3.The unit can start immediately if any of the taps is open for water consumption .
 - 4.When on water consumption is needed the unit can stop automatically by closing the tep.

B.Dry-running protection and automatic delayed start

- 1.Water pump will stop automatically after 15seconds if there is no water supply at the suction line .
- 2.The pump will attempt to restart again after stopping for 10seconds to check water supply.
- 3.The pump run for 40sencnds and if there is no water supply ,it will stop for a second time.
- 4.The pump will repeat above 2~3prcoedure in the coming cycles and if there is still no water supply, the pump willturn to dry-running protection status.
5. The above pcedures will be repeated every 24hours for water supply detection after dry-running protection.

C.Auto-reset

- a.The pump will restore to its normal operation if water supply is resumed during above1~5process under dry-runing protection status..
- b.The system can be activated anytime by pressing the manual reset key.



BSK Series



BSK-2

△ CE RoHS UL SP

| Technical Parameters | |
|---------------------------|----------------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated Current/Power: | 12A/2HP 20A/1.5HP |
| Min. Cut-in: | 20PSI |
| Max. Cut-out: | 100PSI |
| General pressure setting: | 20-40,30-50,40-60 PSI |
| Inlet base: | Male/Female/Revoloving Connector |



BSK-3A

△ CE RoHS

| Technical Parameters | |
|---------------------------|--|
| Rated Voltage/Frequency: | 220-240V/50Hz 380V/50Hz |
| Rated current: | 16(8)A |
| Min. Cut-in: | 1bar |
| Max. Cut-out: | 5bar |
| General pressure setting: | 1.4-2.8bar & 2.1-3.5 bar & 2.8-4.2 bar |
| Inlet base: | Male/Female/Revoloving Connector |



BSK-3B

△ CE RoHS

| Technical Parameters | |
|---------------------------|--|
| Rated Voltage/Frequency: | 220-240V/50Hz 380V/50Hz |
| Rated current: | 16(8)A |
| Min. Cut-in: | 1bar |
| Max. Cut-out: | 5bar |
| General pressure setting: | 1.4-2.8bar & 2.1-3.5 bar & 2.8-4.2 bar |
| Inlet base: | Male/Female/Revoloving Connector |



BSK-5

RoHS

| Technical Parameters | |
|---------------------------|----------------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V /60Hz |
| Rated Current/Power: | 17A/2HP 20A/1.5HP |
| Min. Cut-in: | 20PSI |
| Max. Cut-out: | 175PSI |
| General pressure setting: | 20-40,30-50,40-60PSI |
| Inlet base: | Male/Female/Revoloving Connector |



BSK-6

UL & CSA approval with water shortage protection feature

UL & CSA

UL SP RoHS

| Technical Parameters | |
|---------------------------|----------------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V /60Hz |
| Rated Current/Power: | 12A/2HP . 20A/1.5HP |
| Min. Cut-in: | 20PSI |
| Max. Cut-out: | 60PSI |
| General pressure setting: | 20-40,30-50,40-60PSI |
| Inlet base: | Male/Female/Revoloving Connector |



BSK-7

with water shortage protection feature at low pressure level

UL & CSA

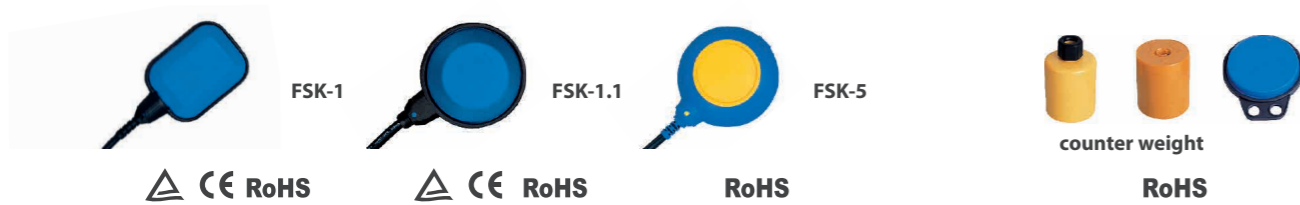
RoHS

| Technical Parameters | |
|----------------------------|----------------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V /60Hz |
| Rated current: | 16A |
| low water protect presure: | 0.15-0.9bar |
| Inlet base: | Male/Female/Revoloving Connector |

FSK Series

FSK-1 / FSK-1.1 / FSK-5

| Technical Parameters | |
|---------------------------|--|
| Rated Voltage/Frequency: | 250V AC, 50Hz/60Hz |
| Rated current: | 10(4)A / 16(4)A / 10(8)A / 16(8)A / 22(8)A |
| Protection rating: | IP 68 |
| Max. working temperature: | 55°C |
| Cable specification: | H05RNF3×0.75mm ² H05RNF3×1mm ² H07RNF3×1mm ² H07RNF3×1.5mm ² |



| Technical Parameters | |
|---------------------------|------------------------------------|
| Rated Voltage/Frequency: | 120/240V 50Hz/60Hz |
| Protection rating: | IP 68 |
| Max. working temperature: | 60°C |
| Rated power: | 1/2HP&3/4HP (120V) 3/4HP&1HP(240V) |
| Cable specification: | 16AWG/18AWG |



| Technical Parameters | |
|---------------------------|------------------------------------|
| Rated Voltage/Frequency: | 120V/240V AC 50Hz/60Hz |
| Protection rating: | IP 68 |
| Max. working temperature: | 60°C |
| Rated power: | 1/2HP&3/4HP (120V) 3/4HP&1HP(240V) |
| Cable specification: | 16AWG/18AWG |

| Technical Parameters | |
|---------------------------|---|
| Rated Voltage/Frequency: | 250V AC, 50Hz/60Hz |
| Rated current: | 10(4)A / 16(4)A |
| Protection rating: | IP 68 |
| Max. working temperature: | 55°C |
| Cable specification: | H05RNF3×1mm ² / H07RNF3×1mm ² H07RNF3×1.5mm ² / H07RNF3×0.75mm ² |



FSK-7 / FSK-8 / FSK-13

| Technical Parameters | |
|---------------------------|--|
| Rated Voltage/Frequency: | 250V AC, 50Hz/60Hz |
| Rated current: | 10(4)A/16(4)A/16(8)A/22(8)A |
| Protection rating: | IP 68 |
| Max. working temperature: | 55°C |
| Cable specification: | H05RNF3×0.75mm ² H05RNF3×1mm ² H07RNF3×1mm ² H07RNF3×1.5mm ² |



| Technical Parameters | |
|-------------------------|---|
| (**switch): | 22(8)A 16(4)A 250V |
| Rated voltage: | 125/250V 50/60Hz |
| Max. Operating current: | 9.8A |
| Max. Starting current: | 60A |
| Cable specification: | 16/2 18/2(UL,CSA)SJTOW SJOW cable, water resistanr(CPE) |
| Working temperature: | 0-50°C |
| Protection rating: | IP67 |



QSK Series



QSK-1

CE RoHS

| Technical Parameters | |
|--------------------------|-----------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated current/power: | 17A/3HP 20A/1.5HP |
| Max. pressure: | 175PSI |
| Mix. pressure: | 20PSI |
| general pressue setting: | 90-125PSI |
| Inlet base: | one way or four way |
| Inlet connection thread: | NPT1/4" |



QSK-1.1

CE RoHS

| Technical Parameters | |
|--------------------------|-----------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated current/power: | 17A/3HP 20A/1.5HP |
| Max. pressure: | 175PSI |
| Mix. pressure: | 20PSI |
| general pressue setting: | 90-125PSI |
| Inlet base: | one way or four way |
| Inlet connection thread: | NPT1/4" |



QSK-2
RoHS

| Technical Parameters | |
|--------------------------|-----------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated current/power: | 17A/3HP 20A/1.5HP |
| Max. pressure: | 175PSI |
| Mix. pressure: | 20PSI |
| general pressue setting: | 90-125PSI |
| Inlet base: | one way or four way |
| Inlet connection thread: | NPT1/4" |



XSK Series

RSK Series



RSK-1
RoHS

| Technical Parameters | |
|---------------------------|--|
| Air volume of the tank: | AV-45, 42gallons AV-100, 100gallons |
| Max. working temperature: | 60°C |



RSK-2
RoHS

| Technical Parameters | |
|--------------------------|-----------|
| Air volume of the tank: | 82gallons |
| ax. working temperature: | 60°C |



RSK-4
RoHS

| Technical Parameters | |
|---------------------------|------------|
| Air volume of the tank: | 120gallons |
| Max. working temperature: | 60°C |



XSK-1
RoHS

| Technical Parameters | |
|--------------------------|-----------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated current: | 5A(220V), 10A(110V) |
| Mix. pressure: | 45 PSI |
| Min. pressure: | 12 PSI |
| General pressue setting: | 1.1-1.8kgs |



XSK-2
RoHS

| Technical Parameters | |
|--------------------------|-----------------------------|
| Rated Voltage/Frequency: | 220-240V/50Hz 110-120V/60Hz |
| Rated current: | 5A(220V), 10A(110V) |
| Max. pressure: | 45 PSI |
| Mix. pressure: | 12 PSI |
| General pressue setting: | 1.1-1.8kgs |

QZB Series



QZB-5
RoHS

| Technical Parameters | |
|----------------------------|--------------------------------|
| Rated voltage/frequency: | 220-240V/110-120V 50Hz/60Hz |
| Starting pressure setting: | 1.0-3.0bar adjustable pressure |
| Working temperature: | 0-50°C |
| rotection rating: | IP54 |