



IRZ-700 SERIES CONTROL STATIONS WITH SOFT START



Parameters monitoring, control and protection of motors with power ranging from 14 to 250 kW and possibility of soft start and stop.

Advantages

- different modes of starting and shutdown
- small overall sizes and weight
- easy operation and maintenance
- easy connection
- 4-line display
- history recording to USB Flash
- software updating without motor operation interruption
 - compliance with LUKOIL, ROSNEFT, SURGUTNEFTEGAS, GASPROMNFT, BASHNEFT, TATNEFT
 - bus design of power systems for all control station versions

Functions

- 4 start modes: start with current increase, start with current limitation, inching start, across-the-line-starting
- 2 stop modes: soft stop, run-down stop
- control in a manual or automatic mode
- continuous control of the supply voltage, order of phase sequence, currents on three phases and isolation resistance of the “pump transformer — power cable — motor” link
- calculation of voltages and currents unbalance, power factor, load factor, consumed power, operation time
- connection to ground acquisition units of sensor system produced by IRZ TEK and other manufacturers
- recording controlled parameters and causes of submersible electric motor switching off in real time saving records during power supply interruptions
- protection of equipment from emergency modes caused by failures in electric mains and submersible equipment
- With the protection system actuated, an automatic restart is provided when parameters are within the working range.

The control station provides

- appliances connection to a female connector on the operator's panel with 220 V rated voltage and up to 10 A consumption current
- with 380 V rated voltage and up to 60 A phase current
- connection to oilfield telemechanics (normally closed and normally open contacts)
- connection to SCADA-system via RS232 or RS485 interfaces using Modbus-RTU communications protocol
- GPRS-modem connection with the option to transmit data via Internet

There is an option to install energy resources metering and recording system registered in the State Register for Measuring Equipment and Tools into the control station.



IRZ-700 SERIES CONTROL STATIONS WITH SOFT START

Specifications

Parameter	Value
Supply voltage, V	190—520
Power of connected motor, kW	14—320
Control of motor operating current, A (performed on the primary winding of the pump transformer with the transformation into the actual motor operating current)	0—2000
Insulation resistance control of the “transformer — power cable — motor”, kOhm	0—10000
Turbine rotation frequency control, Hz	1—50
Error of current, voltage, rotation frequency and time setting control, %	2
Error of insulation resistance control, %	5
Cabinet protection class	IP43
Operating temperature, °C	minus 60...+60

Versions

Designation	Rated current of control station, A	Overall dimensions, mm	Weight, kg
IRZ-721-250	250	1685x765x635	160
IRZ-722-400	400		180
IRZ-723-630	630		200
IRZ-724-800	800		220
IRZ-725-1000	1000		240

IRZ TEK, LLC

19 Bazisnaya street, city of Izhevsk, Russia, 426034

oil.irz.ru