





Sole Distributor of Fuji Electric FA Components & Systems Co. Ltd. Japan



AUTOMATION ENGINEERING & CONTROLS LTD.

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FRENIC - Mini Series

- ▶ Automatic energy-saving provided as a standard function
- PID Control function.
- ▶ Out put Frequency Maximum of 400 HZ
- ▶ Frequency setting potentiometer is standard.



MEW!!

FRENIC - TEXTILE



- ▶ Ranges upto 11KW 55 KW with built in Dc Reactor & EMC Filter
- Arbitrary change of spining speed
- Improvment of productivity through speed incrase
- Reduction of thread breakage
- Elimination of maintenance work needed for mechanical reduction gear



FRENIC 5000 VG7S Series

- ► The industry's best control performance
- ▶ Use with different control types (multi drive function)
- ▶ A wide range of capacity / flexible applications
- ► High end inverter loarder software





FRENIC - Eco The HVAC Inverter

Dedicated to HVAC application

FRENIC - MEGA Series

Applicable control methods: PG

vector control. sensoriess vector Control, dynamic torque vector

Improved performance of current response and speed response

LD (Low Duty) spec :120% for 1 min

I Keypad with a USB connector

Improved durability in overload operation

HD (High duty) spec: 200% for 3 sec/150% for 1 min

Expanded capacity of the brake circuit built - in mode

Use of parts of a longer life cycle (Designed life: 10 years)

Geat model variation meeting customes needs Basic type, EMC

(Standard - equipped for 22kW or small models)

control, and V/f control

(vector control)

filter built - in type

- Full PID control function
- Network compatability Enhanced energy saving function
- Simple Operation and easy maintenance
- Broad range of model variations up to 500kw
- Buit in EMC filter and Dc reactor also available

FALDIC - W Series

- ► High resolution encoder 17 bit
- Vibration Suppressing control
- ► Two RS 485 ports as standard
- ▶ IP 67 (Servo motor)
- ► Side by side installation





ALPHA 5

- Speed Control 3000, 2000, 1500 RPM
- Maximum size 50 w 5kW
- PTP Positioning
- Modbus RTU 3 in 1 DI / DO signal
- Pulse / Analog ▶ IP67
- Auto notch filter
- **USB Connection**



988



Programmable Controller SPH

- Programme scan time of 1ms is implemented by increased Instruction processing speed.
- Real number operation and high precision positioning control have been put to practical use by dramatically improved floation - point operation speed. 1024 point input /output is refreshed in 1ms. Tact control assures a fixed I/O refreshed interval The I/O refresh cycle can be set to 1ms. 2ms, or up 10ms. which is suitable for processing requiring strict tact time.
- The SPH 300 allows tact time setting in 0.5ms units with a minimum setting of 0.5ms.
- Both the hardware and software conforms to the IEC 61131 international standard
- Conforms to be CE making and UL standards as well as **IEC Standard**
- Conforms to LR ship standard (England)



Fuji Programmable Operation Display POD UG30 & V8 Series

- Ultimate Sharpness and clearness
- Conforms to 65,535 full color
- Ethernet 10BASE T as standard
- Substantial animation functions
- Wizard function for easy configuration
- ► Handy POD UF221 series also available
- Multi communication using the gateway function up to 8 devices





On Line UPS

- Ranges from 1.5 KVA 600KVA
- Online double conversion
- ▶ IGBT inverter & output isolation transformer
- 3 phase UPS allow 100% Unbalance load
- Wide input voltage
- ▶ Intelligent fan speed control
- ► Eco mode & EPO function
- DC cold start function







Vaccum Circuit breakers

- ► HB Series ► HS Series
- Interrupting Currents 12.5 kA 50kA
- Rated Voltage 3.6kV 36kV
 Standards JEC, IEC, BS

ACB



Air Circuit Breakers

- DH Series (New)
- Rated Current 800 A 6000A
- Fixed and Draw out type
- New OCR (LCD)

MCCB





Molded Case Circuit Breakers (MCCB) Earth Leakage Circuit Breakers (EICB)

- 30 AF 1600AF
- EA, SA, H Series
- 2 Poles / 3Poles /4 Poles (MCCB+ ELCB)
- BW Series (NEW)

Frame size

- 125 AF, 160 AF, 250 AF, 400 AF, 630 AF, 800 AF
- Wide Choices
- **Advanced Features**
- Easy operation

ELECTRICAL DISTRIBUTION & CONTROL

Vaccum Magnetic Contactors

VMC

Rated Voltage 3.6 / 6.6kV Rated Current 200 - 400 A

HN Series

Magnetic Contractor





FUJI Neo SC & SK Series Contactors & Motor Starters SC - N1 to N16 (1 - 400 KW @ 380 / 440 V)

- Compact Design
- Safety
- International
- **Practical**
- Economical



Pushbutton, Illuminated pushbutton selector switches and pilot lights.

MMS

FUJI Manual Motor Starters Magnetic Contractors

- ► Conformance to IEC Standards
- Response to the International Market
- Safety & Ecological Consideration







MCB

- 6 KA/10 KA Short circuit breaking capacity
- In accordance with IEC 60947
- Ratings 1,2 & 3 poles
- Type c tripping characteristics
- IEC 35 mm rail mounted moduler divices, 1 module (18mm/pole)



INSTRUMENT

Temperature Controller





- PID Algorithm
- Output : Realy, Solid State, 4-20mA
- Digital input /output (alarm)
- ▶ RS485 Modbus communication



Ultrasonic Flowmeter

- ▶ Non Invasive setup and no moving part
- ▶ No Pressure drop
- ► Accuracy: ± 1% of rate
- Quick & easy installation and setup
- ▶ Flexible measuring on verious pipe size



- Silicon Chip inkjet head for more quality printing
- ▶ 6 colours printable
- ▶ Ink is not souble in water
- ▶ 100 mm and 180 mm width available
- ▶ Universal Input
- ▶ RS 485 Communication (option)





Pressure Transmitter



- High Accuracy:
- ± 0.065%~ ± 0.04% of span
- Range Configurable through
- Configuration tools
- Communication: HART, Profibus,
- FF protocol
- World wide hazardous approvals



Paperless Recorder No paper and consumable part

- No moving part with less maintenance
- Full math function, Totalize, Event and Alarm recording
- **Universal Input**
- ► Ethemet / Website

Magnetic Flowmeter

- For liquid flow measurement
- Less pressure drop
- No moving part
- Tailor made to your process



Gas Analyzer



E/TER/ **ELEKTRONIK**/

- Suit to BIOGAS
- Fluid oscillation principle
- Maintenance free
- Suitable for dirty gas flow measurement
- No moisture sensitive
- Explosion proof
- High accuracy: ∓ 1.5% of rate

Gas Analyzer











- Many kinds of substance available
- Tailor made to customer process
- measurment
- 4 20mA output
- Explosion proof type available
- Sampling system with cooling system also provided Special design for Biogas process

NEW!



Cast Resin Transformers

- Fire resistant & Energy Saving
- Vaccum-casting
- Aluminium winding with reduced weight & large mechanical strength
- Partial discharge free
- Sheet winding with downsizing, high
- insulation reability & surge stability

Level Instrument

- Magnetic Float SwitchCable Switch
- Capacitance Level Switch
- RF Level Switch
- Vibration level Switch
- Rotating level Switch
- By-Pass Level Indicator
 Ultrasonic Level Transmitter
- Capacitance Level Transmitter





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