

# Electric Fire Pump Controller

KT-E 55

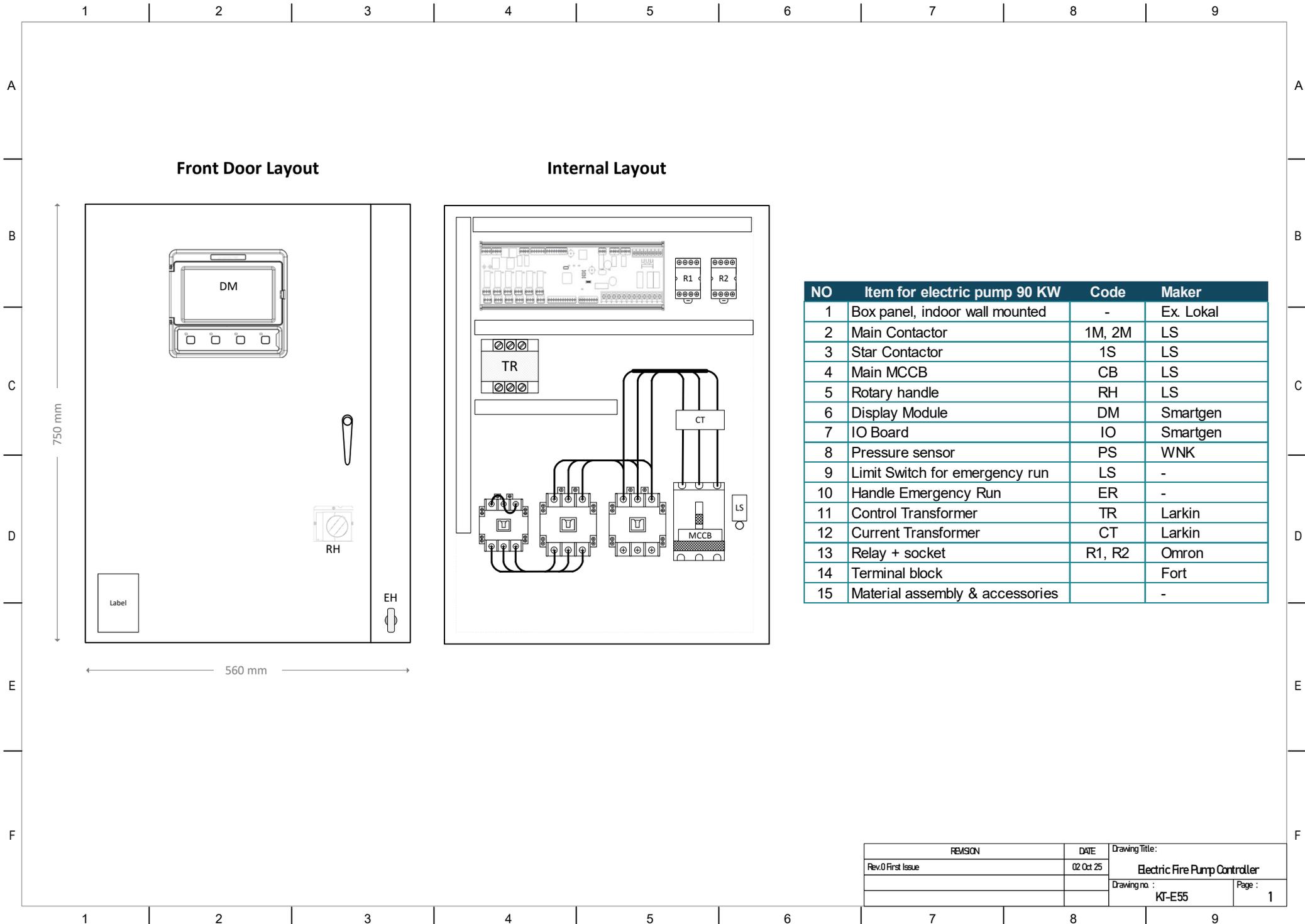


Used for controlling or starting fire pumps driven by motors. It can manually start the fire pump through the local start button or automatically start the fire pump by detecting the pressure drop, equipped with a pressure sensor. It integrates digital, intelligent, and uses a 7-inch color LCD graphical display, which is easy to use and reliable to operate.

## Main Features :

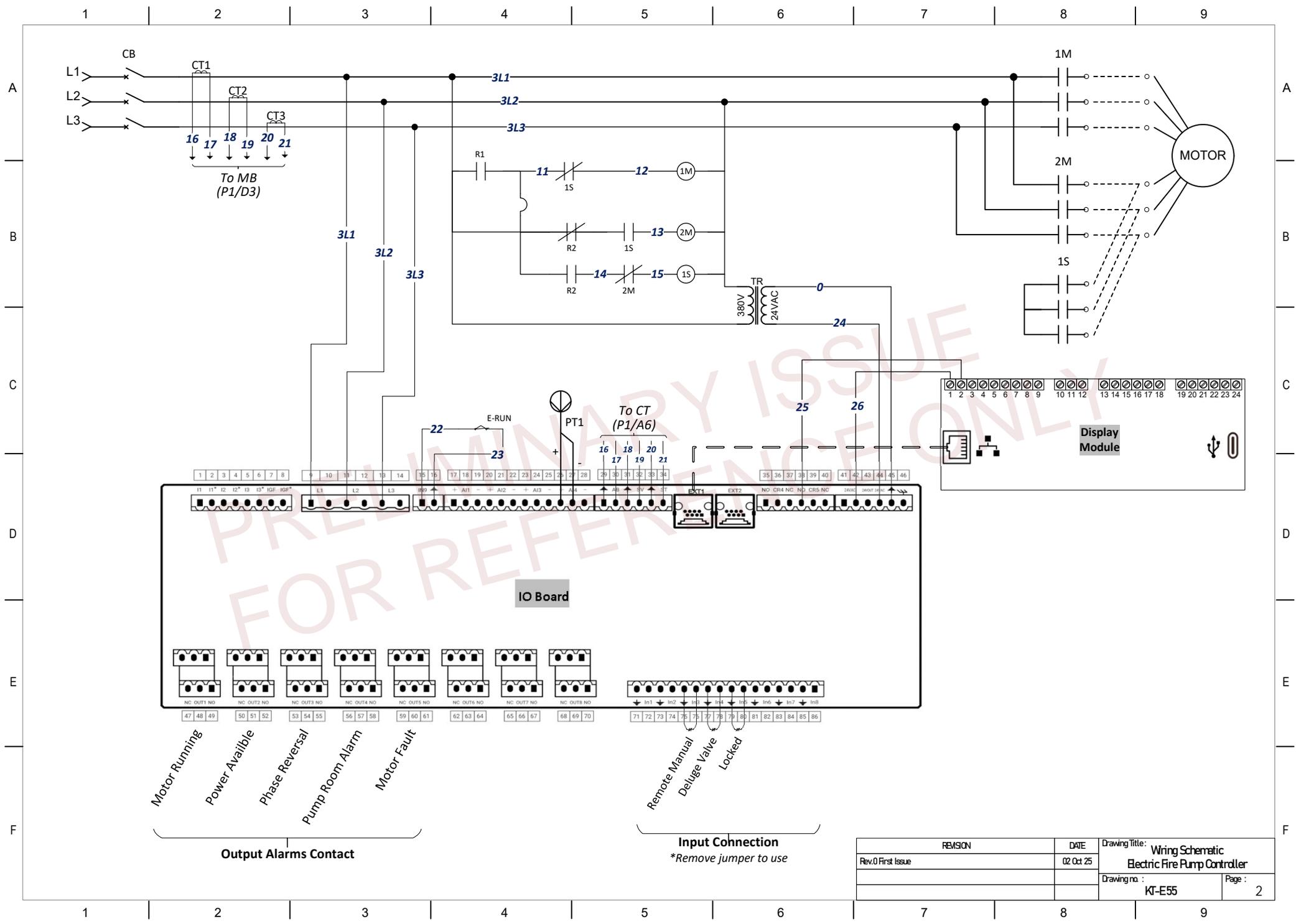
- Operator Interface, Color LCD screen 7-inch, resistive touch screen
- Run test push button
- Emergency start handle
- Circuit breaker operating handle
- Start and stop pushbuttons
- Pressure & event recorder
- Alarm buzzer
- Voltage and amperage display
- detection functions of overvoltage, undervoltage, phase loss, phase reversal, overcurrent, undercurrent,
- RS485 communication interface, and USB device interface for parameter configuration of upper computers and reading of historys
- USB host interface for exporting alarm event records and timed record data





NO	Item for electric pump 90 KW	Code	Maker
1	Box panel, indoor wall mounted	-	Ex. Lokal
2	Main Contactor	1M, 2M	LS
3	Star Contactor	1S	LS
4	Main MCCB	CB	LS
5	Rotary handle	RH	LS
6	Display Module	DM	Smartgen
7	IO Board	IO	Smartgen
8	Pressure sensor	PS	WNK
9	Limit Switch for emergency run	LS	-
10	Handle Emergency Run	ER	-
11	Control Transformer	TR	Larkin
12	Current Transformer	CT	Larkin
13	Relay + socket	R1, R2	Omron
14	Terminal block		Fort
15	Material assembly & accessories		-

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**Output Alarms Contact**  
 Motor Running  
 Power Available  
 Phase Reversal  
 Pump Room Alarm  
 Motor Fault

**Input Connection**  
 Remote Manual  
 Deluge Valve  
 Locked  
 \*Remove jumper to use

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# Diesel Fire Pump Controller

KT-D 302



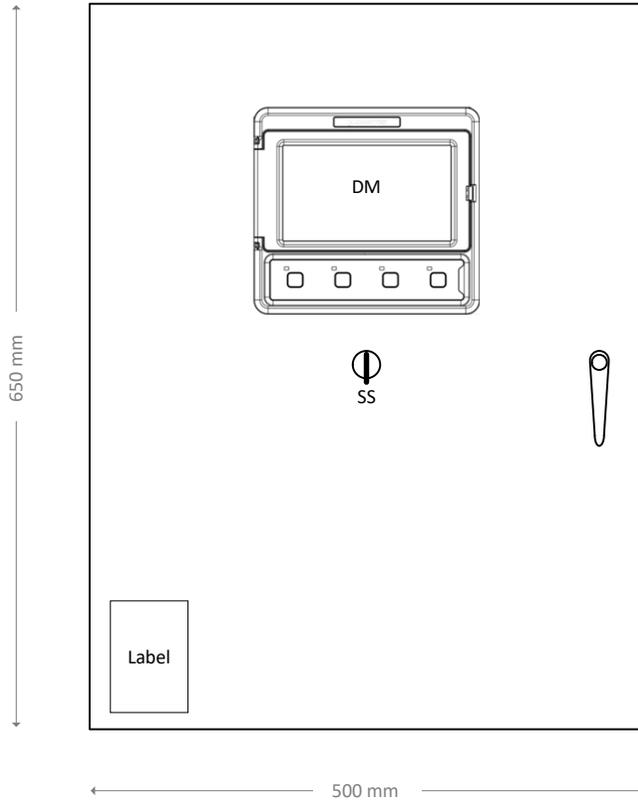
used for starting or controlling the diesel fire pumps. It provides manual & automatic start/stop function. The automatic start function can be controlled by pressure sensor or remote automation device, and the manual start function can be controlled by controller start button or remote manual button. The controller supports alarm recording and timed recording functions, which can monitor system pressure, battery voltage, charging current and other data in real time. And the data can be exported through the USB host port for analyzing and diagnosing the system status.

## Main Features :

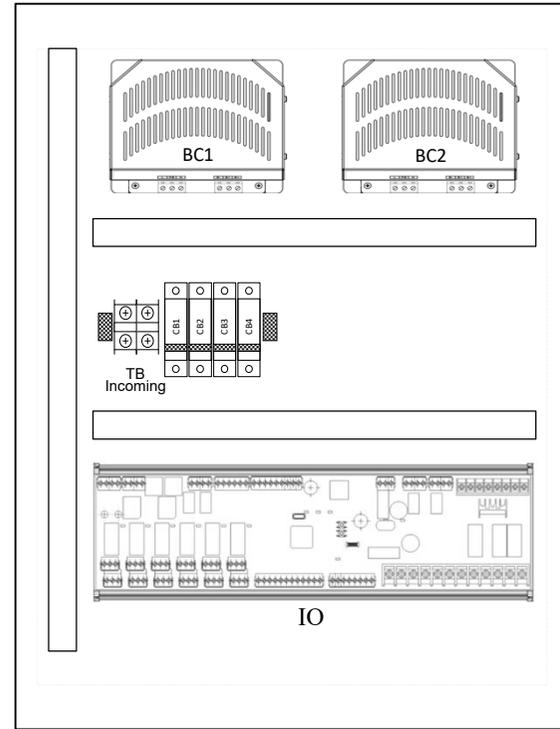
- Operator Interface, Color LCD screen 7-inch, resistive touch screen
- Run test push button
- With stop & 2 crank (battery 1 or 2) pushbuttons
- Automatic starting of engine on pressure drop as detected by a pressure transducer
- Pressure & event recorder
- Alarm buzzer
- It can collect and display AC voltage, frequency, & support over/under voltage detection
- Real-time monitoring of two-way charger voltage and current, two-way starter battery voltage
- RS485 communication interface, and USB device interface for parameter configuration of upper computers and reading of historys
- USB host interface for exporting alarm event records and timed record data



Front Door Layout

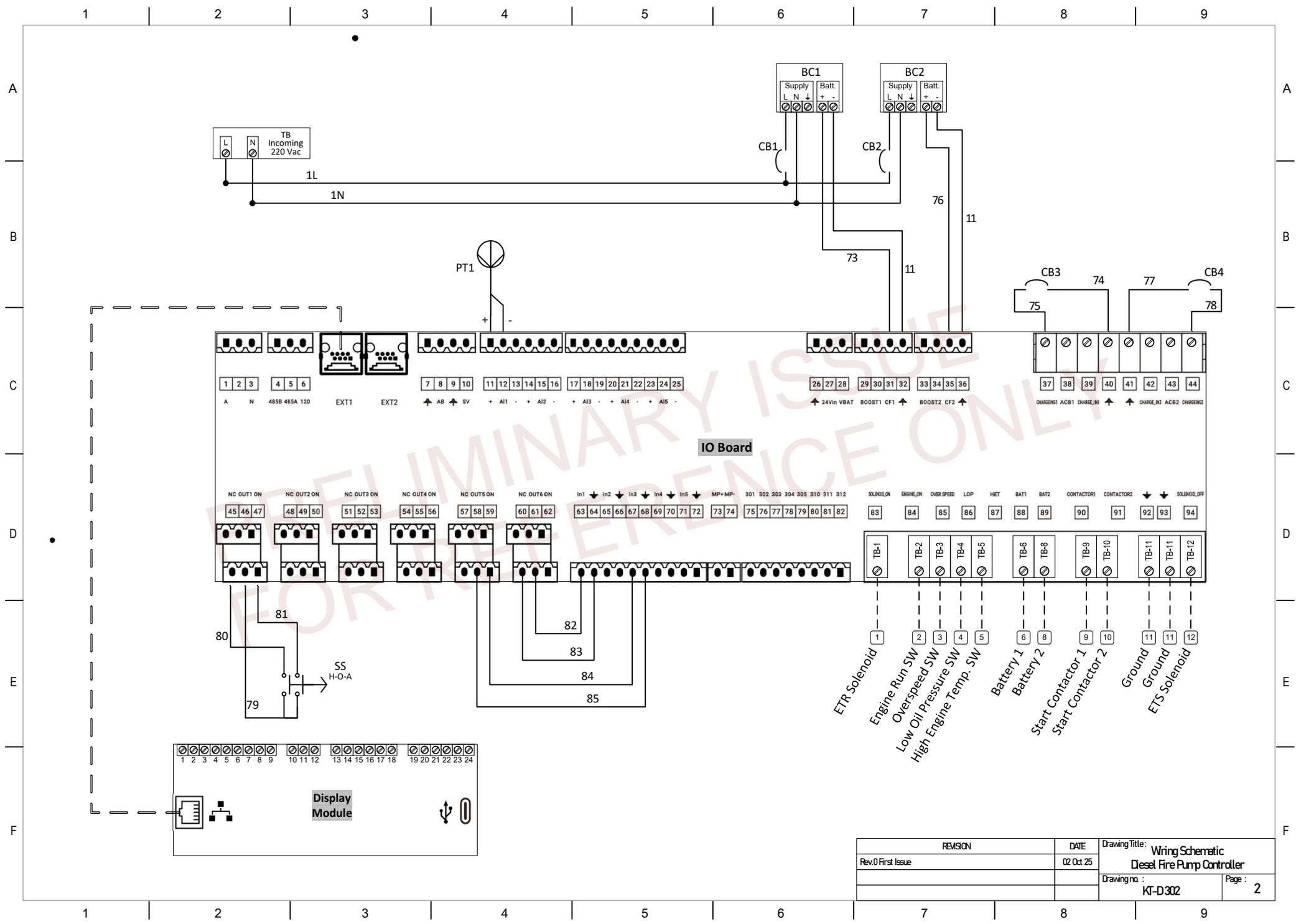


Internal Layout



NO	Item	Code	Maker
1	Box panel, indoor wall mounted		Ex. Lokal
2	Display Module	DM	Smartgen
3	IO Board	IO	Smartgen
4	Pressure Transducer	PT1	WNK
5	Battery charger	BC1,2	-
6	MCB Power AC	CB1,2	Schneider
7	MCB DC	CB3,4	Schneider
8	Selector switch	SS	Hanyoung
9	Terminal block	TB	-
10	Material assembly & accessories		-

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# Diesel Engine Fire Pump Controller

KT-D 301



Fire Pump Controller for engine driven fire pumps is designed to automatically start the engine upon a drop in pressure in the water supply, or from a number of other demand signals. The controller provides automatic cycled cranking and alarm protection for various engine failures when running. 132x64 LCD with backlight, multilingual interface and easy operating interface. The display will show the pressure system, time and date, and any custom messages, alarms or timer values.

## PRESSURE TRANSDUCER

The controller shall be supplied with pressure transducer with a range of 0-300 or 0-600 psi. Pressure transducer shall be used for both display of the system pressure and control of the fire pump. The START, STOP and SYSTEM PRESSURE shall be digitally displayed and adjust.

## ALARM & STATUS LIGHTS

All alarm and status LED's as well as the LCD Display and programming buttons are accessible from the front of the controller. Event log, real-time clock, scheduled start & stop functions.

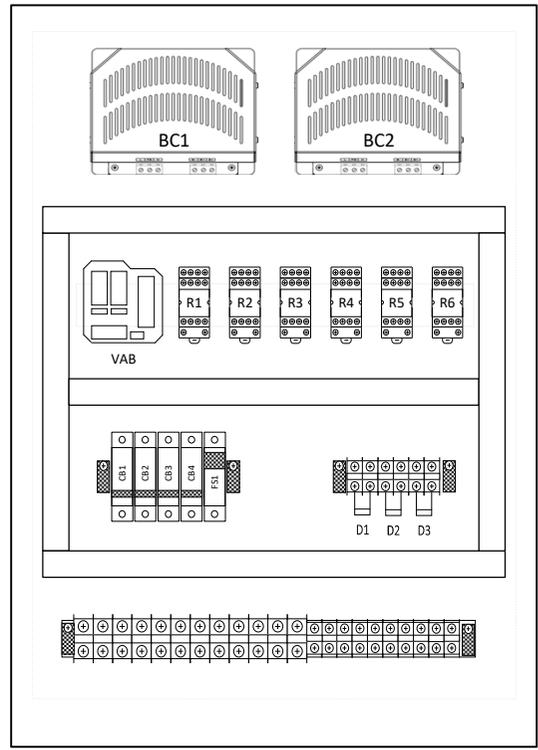
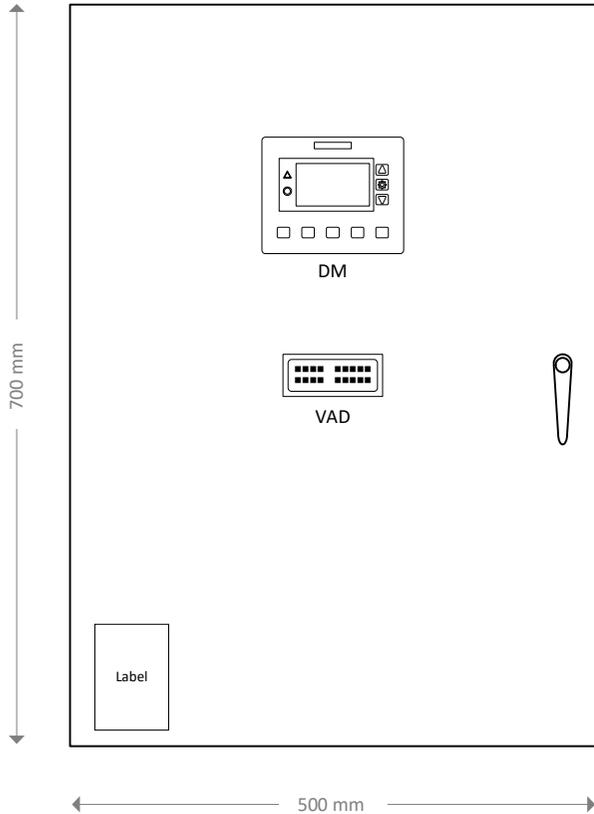
## TECHNICAL SPECIFICATIONS

- Supply Voltage : 220 Vac
- Output Voltage : 12 / 24 Vdc
- Temperature : 4 to +50 deg. C
- Pressure Transducer : 300 / 600 psi



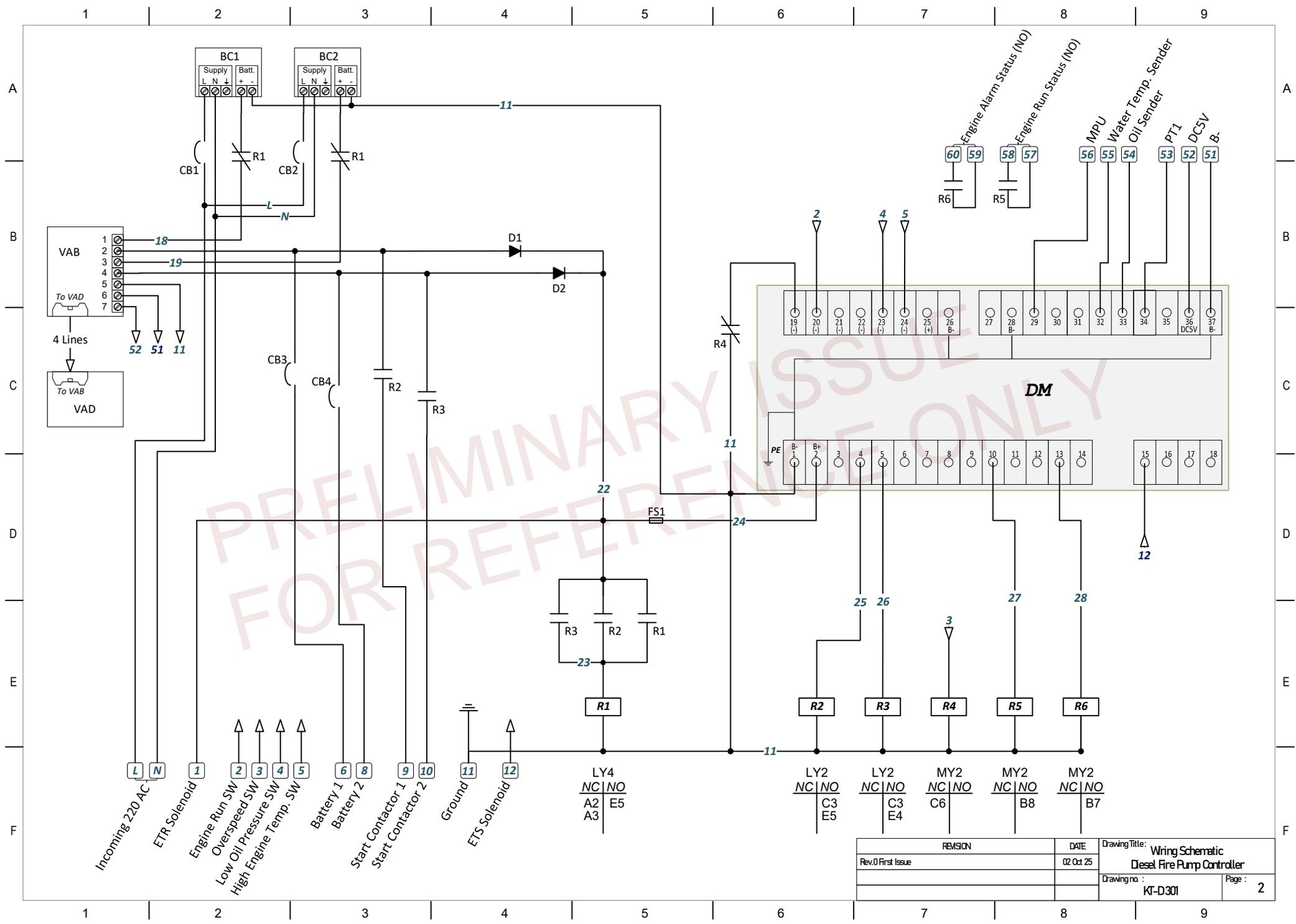
Front Door Layout

Internal Layout



NO	Item	Code	Maker
1	Box panel, indoor wall mounted		Ex. Lokal
2	Display Module	DM	Smartgen
3	Pressure sensor	PT	WNK
4	Battery charger	BC1,2	-
5	Diode	D1,2,3	-
6	Dual VA meter Display	VAD	-
7	Dual VA meter Board	VAB	-
8	MCB Power AC	CB1,2	Schneider
9	MCB DC	CB3,4	Schneider
10	Relay + socket	R1	Omron
11	Relay + socket	R2,3	Omron
12	Relay + socket	R4,5,6	Omron
13	Fuse + holder	FS1	Fort
14	Terminal block		Fort
15	Material assembly & accessories		-

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# Jockey Pump Controller

KT-J DOL / KT-J YD



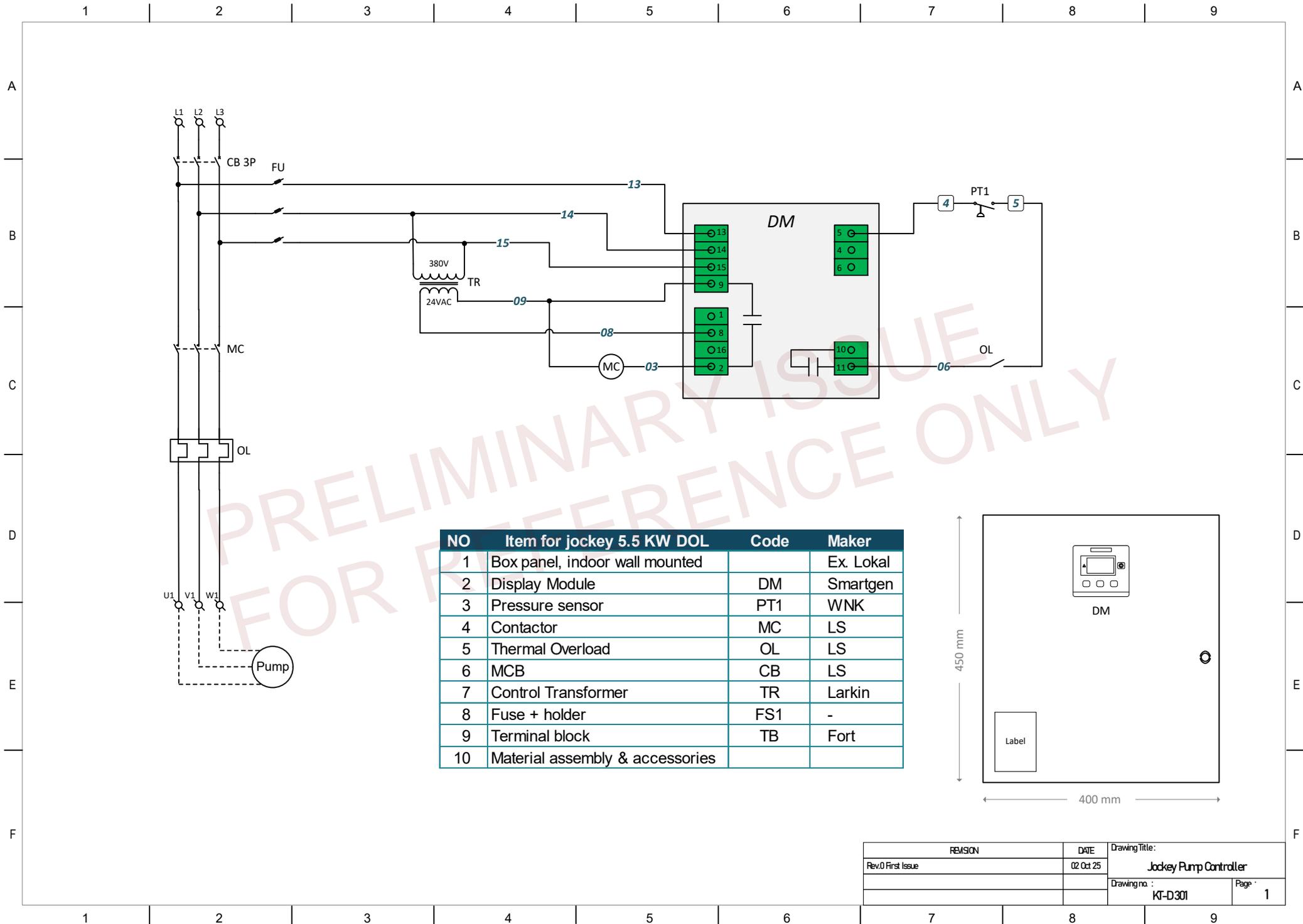
designed to control jockey pumps in order to maintain the desired water pressure in fire pump serviced systems. A jockey pump installation prevents unnecessary starting of the fire pump due to small leaks. There are 2 options to starting

- KT-J DOL, **Direct On Line (Accross The Line)**
- KT-J YD, **WYE Delta (Star-Delta)**

## Main Features :

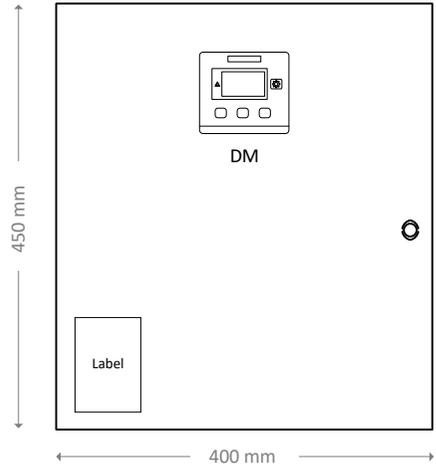
- Operator Interface, LCD 128x64 pixels with backlight
- System pressure readout in display
- With Pressure transducer 0-300 PSI
- With OFF/Auto/Manual modes
- With over/under voltage, over/under frequency and reverse phase detection functions, threshold values are available to set
- LCD can visually display the current pipe pressure, total running time, pump start times, AC power status and alarm status
- All the output ports are relay output





PRELIMINARY ISSUE  
FOR REFERENCE ONLY

NO	Item for jockey 5.5 KW DOL	Code	Maker
1	Box panel, indoor wall mounted		Ex. Lokal
2	Display Module	DM	Smartgen
3	Pressure sensor	PT1	WNK
4	Contactour	MC	LS
5	Thermal Overload	OL	LS
6	MCB	CB	LS
7	Control Transformer	TR	Larkin
8	Fuse + holder	FS1	-
9	Terminal block	TB	Fort
10	Material assembly & accessories		



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