



AVS Control Panel

1. Product Information

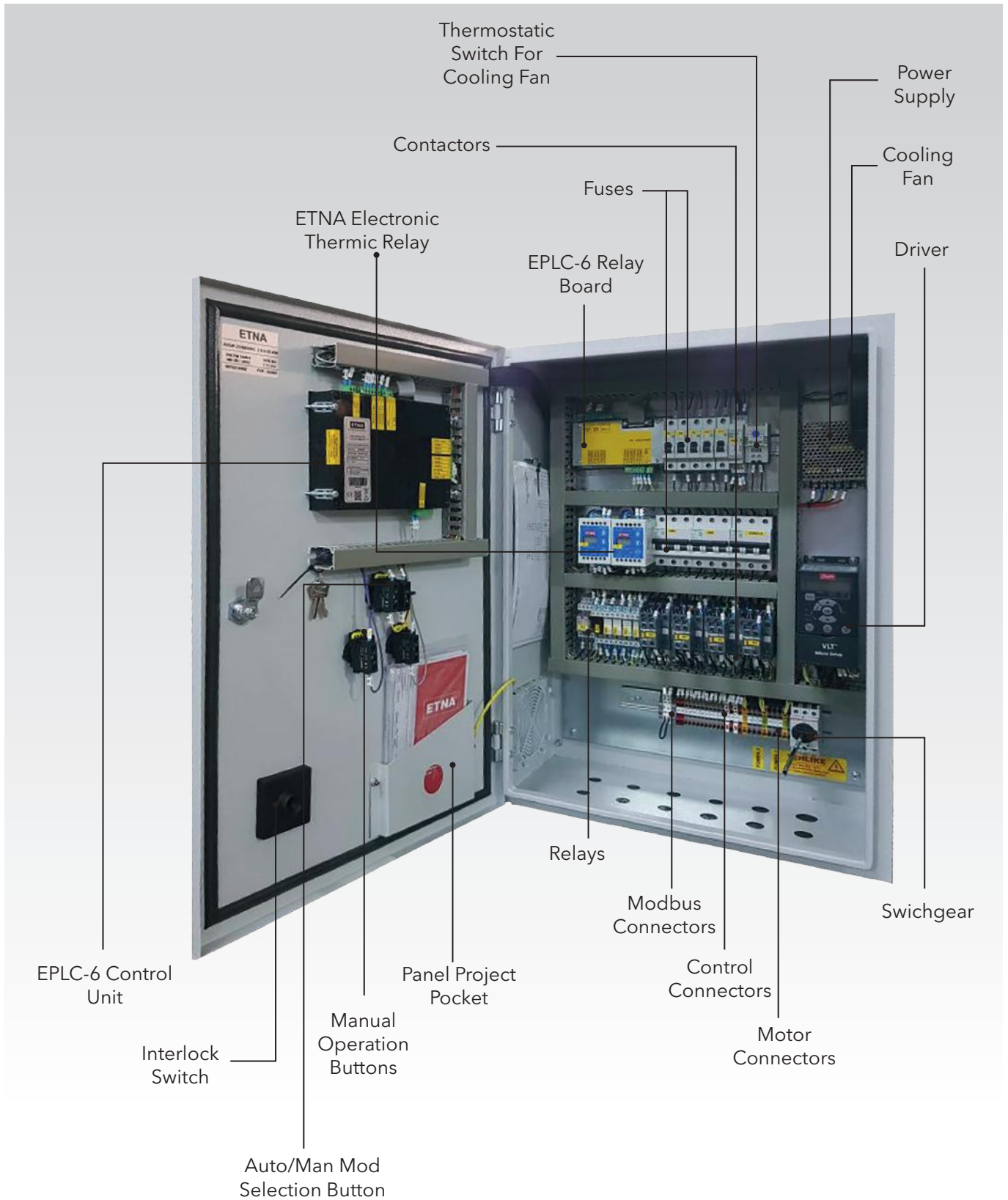
AVS is a pump control panel having 4.3" TFT touch screen, uniquely designed high efficient variable speed control and relay board. The touch control panel is located on front casing while relay module is located inside. Other than these, Manual / Auto / Off Selection Button, Manual Control Buttons and Interlock Switch are available on front casing. AVS panel provides control and screen up to 6 pumps with the help of EPLC-6 control system, relays and switching components. System parameters can be changed on touch screen with user-friendly interface.

AVS Panel can be used on constant pressure booster or differential pressure circulation systems with the help of receiving data from an analog pressure sensor. The panel especially is recommended to use with frequency inverted pump applications. Apart from that, it is also possible to use the panel on constant cycle pump systems.

It is especially preferred in frequency controlled pump applications. It can also be used in fixed speed pump applications with pressure sensors.



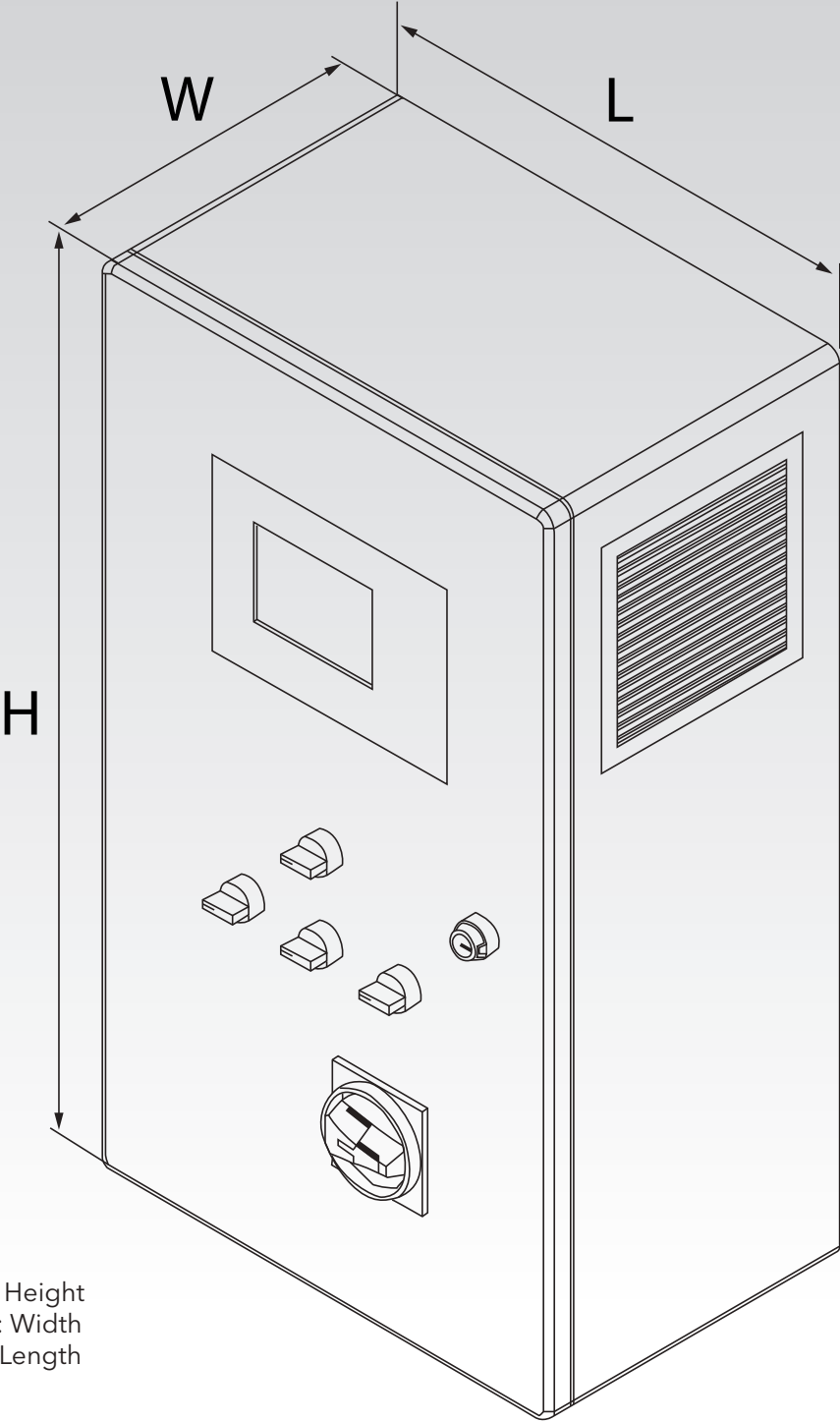
Figure 1: AVS Panel



* The inside image of the panel may differ from the picture above.

Figure 2: AVS Panel Internal View

2. Dimensions



H: Height
W: Width
L: Length

Figure 3: AVS Panel Dimensions

Motor Power		1 Pump Systems			2 Pump Systems			3 Pump Systems		
HP	KW	L (mm)	H (mm)	W (mm)	L (mm)	H (mm)	W (mm)	L (mm)	H (mm)	W (mm)
0,5	0,37	500	700	260	500	700	260	600	800	260
0,75	0,55	500	700	260	500	700	260	600	800	260
1	0,75	500	700	260	500	700	260	600	800	260
1,5	1,1	500	700	260	500	700	260	600	800	260
2	1,5	500	700	260	500	700	260	600	800	260
3	2,2	500	700	260	500	700	260	600	800	260
4	3	500	700	260	600	800	260	600	800	260
5,5	4	500	700	260	600	800	260	600	800	260
7,5	5,5	500	700	260	600	800	260	600	800	260
10	7,5	500	700	260	600	800	260	600	800	260
15	11	500	700	350	700	900	350	800	1000	350
20	15	500	700	350	700	900	350	800	1000	350
25	18,5	600	800	350	800	1000	350	1000	1200	350
30	22	600	800	350	800	1000	350	1000	1200	350

Motor Power		4 Pump Systems			5 Pump Systems			6 Pump Systems		
HP	KW	L (mm)	H (mm)	W (mm)	L (mm)	H (mm)	W (mm)	L (mm)	H (mm)	W (mm)
0,5	0,37	700	900	260	800	1000	350	800	1000	350
0,75	0,55	700	900	260	800	1000	350	800	1000	350
1	0,75	700	900	260	800	1000	350	800	1000	350
1,5	1,1	700	900	260	800	1000	350	800	1000	350
2	1,5	700	900	260	800	1000	350	800	1000	350
3	2,2	700	900	260	800	1000	350	800	1000	350
4	3	700	900	260	800	1000	350	800	1000	350
5,5	4	700	900	260	800	1000	350	800	1000	350
7,5	5,5	700	900	260	800	1000	350	800	1000	350
10	7,5	700	900	260	800	1000	350	800	1000	350
15	11	1000	1200	350	1000	1200	350	1200	1400	350
20	15	1000	1200	350	1200	1400	350	1200	1400	350
25	18,5	1000	1200	350	1200	1400	350	1200	1400	350
30	22	1000	1200	350	1200	1400	350	1400	1600	350

Table 1: AVS Panel Dimensions Table

3. AVS Technical Specifications

- Epoxy coated DKP steel body
- Schneider switching instruments.
- Internal cooling with thermostatic control
- IP 54 protection class
- Manual / Autorun option
- Phase absence / unbalance /sequence protection by phase protection relay
- Thermal-magnetic motor protection
- Waterless run protection on booster applications by external floater connection
- Interlocking switch system
- 24V DC external power supply
- Remote control option via dry contact
- Possibility to send Run, Thermal Fault, General Fault data to Building Management System (BMS) for each pump individually
- Possibility to transfer system parameters to Building Management System (BMS) via MODBUSRS 485 data communication protocol (Please check next page for MODBUS Address Table)
- Possibility of control over automation system via Modbus RTU RS 485 communication protocol
- Enabling to control up to 6 cascade assembled pumps by 1 frequency inverter and uniquely designed controller with 4,3" TFT touch screen
- Ability to view; number of pumps working, pump mode, driver frequency, set pressure, instant pressure, fault indications and date-time information.
- Preventing unauthorized access thanks to password protection support
- Possibility to change settings while system running
- Ability to view working hours of each pump
- Capability of collecting data with high precision using advanced pressure sensor calibration and off-set menu
- High pressure protection with adjustable value and duration
- Low pressure protection with adjustable value and duration against low water level and cavitation
- Optimum reaction time according to system needs with the help of adjustable pump on/off time
- Adjustable wake-up pressure
- Adjustable cyclic change over time
- Manual pump back up
- Booster and circulating mode selection
- Selection mode of with/without driver
- Adjustable PID reaction speed
- Adjustable driver switch off frequency value on frequency inverted systems
- Ability to run pumps with maximum speed via mains supply contactors in case driver in fault mode
- Ability to run pumps with maximum speed via mains supply contactors in case driver in fault mode preventing system blockage
- Adjustable maximum driver working frequency
- Adjustable minimum inverter working frequency
- Periodic maintenance reminder
- Turkish / English language option
- 100 events history logging capacity
- Real-time date / time information
- 12 V DC internal isolated 4-20 mA transmitter supply and 2 transmitter inputs



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