smartDRIVE | iNDOOR

IP-33 Variable Frequency Drive

OILDYNAMICS
Lifting Energy

The **smartDRIVE | iNDOOR** delivers intelligent control and advanced protection for ESP systems in sheltered environments. With its IP33-rated design, it ensures reliable performance, safe operation, and seamless integration. Built for efficiency and reduced downtime, it optimizes production while providing long-term operational confidence. Ultra-low harmonics (ULH) drive options are also available to minimize electrical disturbances and enhance power quality.

Specification



Dimensions:
1800(H)×2400(L)×600(D) mm
Input Voltage:
380V to 500V; 50/60Hz
Input Configuration: 6-pulse diode
THDi:

- ~35%;
- less than 3% for ULH.

Permissible AC voltage fluctuation:
330V - 500VAC
General Circuit description:

- Molded Case Circuit Breaker
- AC-Choke
- VFD
- Sine Wave Filter

Cooling System: Forced air cooling
Protection degree: IP-33
Environmental use: Indoor
Temperature rating: 0-50°C not condensing
Output configuration: Built-in Sine Wave Filter
Interface: 10,1" Multilanguage Coloured HMI
Artificial Lift Controls:

- 8×AI (5x4-20mA, 3xPT-100), 16×DI, 16×DO
- Safe torque off (ESD)
- Modbus TCP/IP

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Key Features

- Colored, Full Text, Touch Screen Human Machine Interface (HMI).
- Multi-language, EN, DE, RO, UA; others on request.
- HMI, Remote 2-Wire, Remote 3-Wire, Remote Network, PID, Duty Cycle, Rocking Start, I-Limit, Delta Pressure Modes.
- Overload, Underload, Stall prevention, under frequency protection.
- Auto-Restart after power up, automatic restart after minor trip.
- Wellhead voltage and current display, 32 Gb Internal Logging, programmable.

Highlights

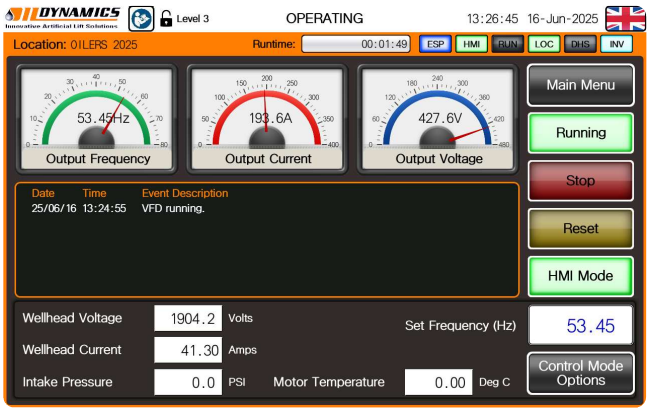
- Integrated AC-Choke reduces harmonics, protects against spikes, and limits inrush current.
- Artificial Lift Controller with enhanced control system, PLC based with 10,1" HMI
- Ready to go package
- Integrated base of 200mm

Options

- Down Hole Sensor panel integration
- Cold Weather package
- Remote Monitoring
- MODBUS RS-485 RTU
- Passive Filter
- Separate control section cabinet
- Spreader Bar

Applications

- ESP (Electrical Submersible Pump)
- HPS (Horizontal Pumping System)
- DHHC (Down Hole Heating Cable)
- PCP (Progressive Cavity Pump)
- ESPCP (Electrical Submersible PCP)



Ratings and Features

DRIVE CAPACITY, A	361	481	610	770	866	962	1094
DRIVE CAPACITY, kVA(1)	237/287	316/383	401/485	506/613	569/689	633/766	720/871
AIR CAPACITY, m^3/hr	2400			4000			
HEAT DISSIPATION, kW	6,25	9,49	11,81	13,6	15,63	17,09	19,18
WEIGHT, kg	1200	1400	1600	2100	2300	2400	2500
FRAME SIZE	EL011			EL013			

(1) – At 400/480 V input.

Compact Design. Smart Control. Indoor Confidence.

smartDRIVE Sd iD

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