



Artificial Lift “Early production” Program

Powerdrive Variable Speed Solutions
Reduced delivery times for a faster start-up of PCP,
Export and ESP applications



LEROY-SOMER™

Nidec
All for dreams

A unique proposition to answer production challenges

A dedicated drive for artificial Lift to meet specific requirements

The current economic environment raises unprecedented challenges on responsiveness and adaptability for the upstream sector. Minimized inventory, optimization of maintenance strategies, the ability to quickly adapt the pumping regime to the production requests are at the heart of everyday operations concerns.

In this environment, Leroy-Somer has developed a dedicated offering for the artificial lift market, with substantially reduced lead times fulfilling the unique requirements of the market.

A standardized offer for strong commitment

Thanks to its long experience in high power variable speed drives for the oil & gas industry, Leroy-Somer has selected the very best models and options, answering to the dual challenges of short lead times and a broad scope of use, which our clients demand.

New – ESP application

Integration of a 40 - 120 Hz hybrid SINUS filter allowing operation on asynchronous motors and also on PMM motors up to 120 Hz.

Our commitments

- Ready for shipment within 20 working days, limited quantity
- Fully tested and ready to use
- Included options for exports pumps, PCP, ESP and ESPCP
- Indoor and Outdoor installations

Three sizes for a broad scope of use on ESP, PCP and export:

- 150 kVA
- 270 kVA
- 470 kVA



To produce as soon as possible because every barrel counts

Powerdrive series: Optimized for power and footprint

Power (grid voltage 400 V AC)			
Protections	Circuit breaker, surge protector, fuses		
Filter	Choke		
	Sine		
Control			
Inputs on terminal block (M2M board included)	On switch		
	Off switch		
	Failure ESP sensors enclosure		
	Off-gas detection, temperature 1 and 2		
	Fieldbus connection and choke board to ESP sensors enclosure		
	PTC sensor: motor winding alarm, motor winding failure, front bearing failure, rear bearing failure		
Output on terminal block (M2M board included)	External failure		
	Current motor output (0-10V)		
	Speed motor output (0-10V)		
	Info local/remote (digital output)		
	Laptop power supply (230VAC)		
	Power supply for ESP sensor enclosure (115VAC)		
	Emergency shutdown (digital output)		
	Failure (digital output)		
Field bus	Normal operation (digital output)		
	Ethernet/IP		
Front panels controls	On/Off switch		
	Local reset		
	Selection local/remote		
	Potentiometer for speed control		
	Emergency shutdown button		
	Standard HMI		
	Circuit breaker handle	*	*
Front panel displays	Indicator "Power on" (white)		
	Start indicator (green)		
	Failure indicator (red)		
	Indicator motor current		
	Enclosure door ready for installation of ESP sensor housing		
	MD2 touchscreen HMI		
Integration			
Installation	Indoor		
	Outdoor		

* only in outdoor version

Ready for shipment within 20 working days

- ESP application
- PCP and export

- Range of stock items under this program
- Ex-factory lead time

Indoor installation



Outdoor installation



Dimensions in mm (inch)

	PCP and export pumps, indoor		
	150T	270T	470T
Height	2260 (88.98)	2260 (88.98)	2260 (88.98)
Width	405 (15.94)	605 (23.82)	1008 (33.69)
Depth	605 (23.82)	605 (23.82)	605 (23.82)

	ESP pumps, indoor		
	150T	270T	470T
Height	2260 (88.98)	2260 (88.98)	2260 (88.98)
Width	808 (31.81)	1008 (39.69)	1208 (47.56)
Depth	605 (23.82)	605 (23.82)	605 (23.82)

	All pumps, outdoor	
	150T - 270T - 470T	
Height	2250 (88.58)	
Width	1475 (58.07)	
Depth	1173 (46.18)	

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