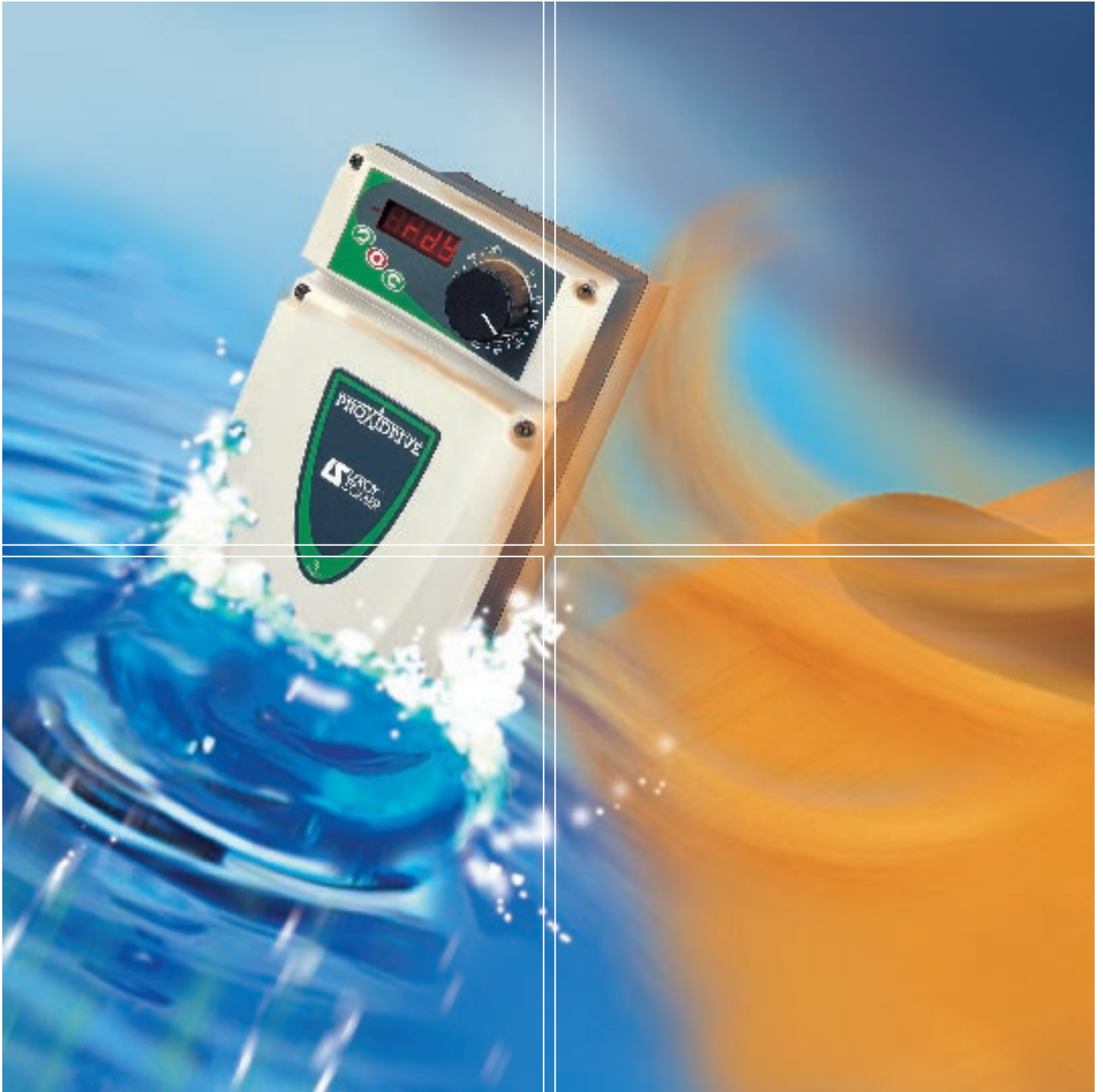




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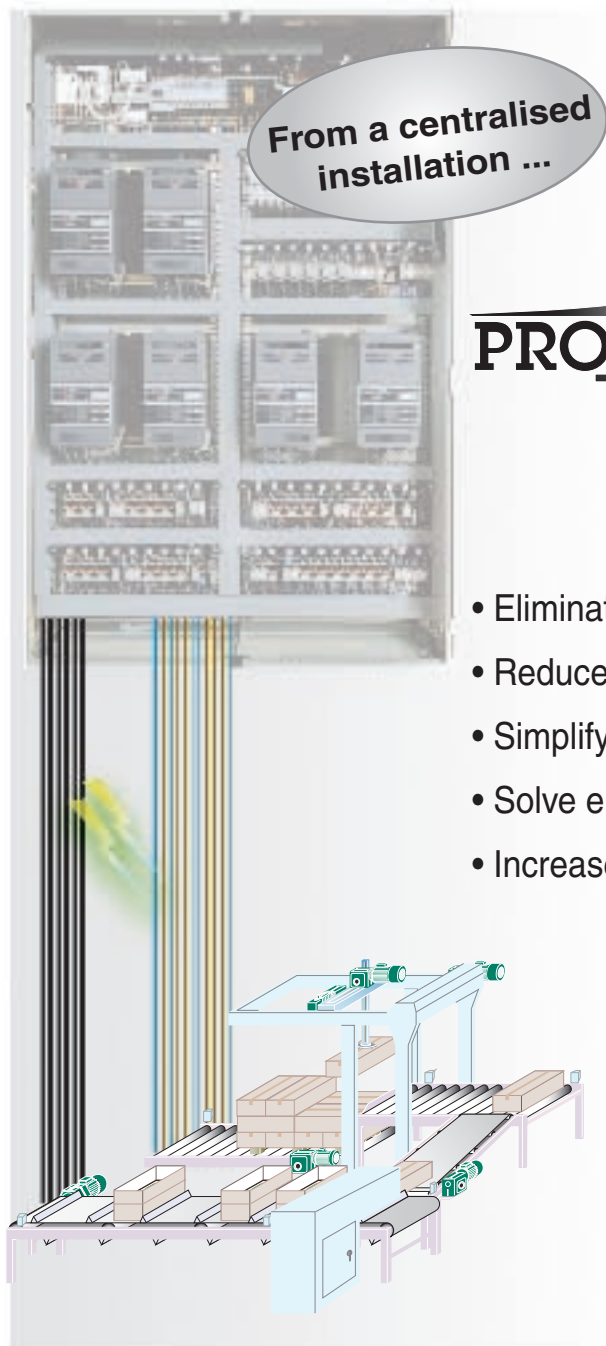


**PROXIDRIVE**

**IP 66 - Nema 4X Variable Speed Drive**

Decentralise drives "next to motors", whatever the environment. The latest solution to industrial needs.

LEROY-SOMER has developed a unique IP 66 - Nema 4X variable speed drive.

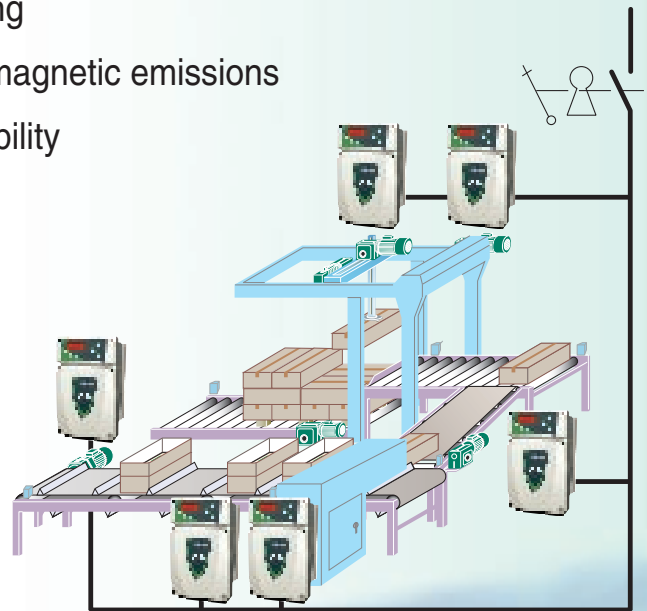


## PROXIDRIVE

- Eliminate cabinet
- Reduce number of components
- Simplify cabling
- Solve electromagnetic emissions
- Increase reliability



... to a decentralised solution



# PROXIDRIVE

*wash-down duty drive solution*

## COMPLETELY INTEGRATED SOLUTION

**EMC compliance**

- Built-in RFI filter as standard up to 4 kW
- Complies to EN 50081-2 generic emissions standard with 5m motor cable
- Earth leakage current < 3mA

**PLC features**

Numerous PLC function blocks allowing machine automation to be programmed directly from PROXIDRIVE

**Inputs - Outputs**

Up to 20 programmable analog and digital input - output

**Field bus**

Field bus connectivity

PROFINET  
GSDN  
CANopen  
DeviceNet  
Modbus RTU

**Secure disable input**

Complies to EN 954-1 category 3 safety standards without any line contactor

**High performance**

- Open loop vector control
- V to F control
- Closed loop vector control with encoder feedback module

**Motor brake control**

- Brake output command
- AC power supply from static contactor

• **Sealed enclosure**

**IP 66**  
**NEMA 4 X**

• **Robust**

Impact resistance index  
**IK 08**

• **Wash-down duty**

Proxidrive has been designed giving special attention to hygienic design criteria published by EHEDG and the FDA

- Specific enclosure material aid easy cleaning with slopes greater than 3 degrees from horizontal and radius above 6 mm
- Material surface complies with industry recommendations

## DRIVE SET UP : the right tool for each application

**Instantaneous**

Parameter settings programmed at the factory combined with auto-tuning allows immediate starting in most applications

**Easy**

- 1- Connect
- 2- Press
- 3- Start

Application settings are downloaded from the **XPressKey** by the simple push of a button

**Fast**

- PROXIDRIVE offers 12 preset parameter configurations to suit the most common industrial applications
  - Analog signal input command
  - Combination of one analog input and three preset speeds
  - up to 8 preset speed operation
  - Motorised potentiometer
  - PID loop control
  - Torque control
  - Pump or fan regulation
  - Hoist and crane control ...
- The selection of one of the above preset configurations automatically programs the drive and its corresponding control terminals

**Optimised**

The extremely user friendly **PX-LCD** programming keypad and **PROXISOFT** commissioning software allow access to a multitude of functions for complete drive programming

- Multi-language display
- Interactive programming assistance
- Access to advanced parameter settings
- Supervision
- Diagnostic (diagnosis) tool



## A FLEXIBLE DRIVE

Easy access to operator functions

- Run forward
- Run reverse
- Stop
- User friendly potentiometer
- Can be combined with remote signal
- Programmable key and potentiometer
- Access to advanced parameters by **PX-LCD** keypad or PC tools

Local control

Dynamic braking

Wash-down duty braking resistor fits rear heat-sink

Residential EMC compliance

- Optional IP 66 RFI filter :
- to comply with EMC residential level
  - for 5.5 and 7.5 kW

PROXIDRIVE

Electrical lock

PROXI System

A lockable IP 65 power switch connectable upstream or down stream from the drive and located on the right or the left of PROXIDRIVE is offered as an option

For more elaborate system, LEROY-SOMER offer on request a pre-wired IP 66 Nema 4X control wich incorporates all the necessary components for the application

## Designation - Characteristics

Example of catalogue number :

**PX 5,5 T SET**

- SET : Basic product
- CP : Local command
- Code

US LISTED  
E211799

	P motor (kW)	Code	$I_N$ (A)	H (mm)	W (mm)	D (mm)	Weight (kg)
<b>THREEPHASE 208-240 V 50-60 Hz</b>	0.37	1 TL	2.5	380	180	189	4.7
	0.55	1.2 TL	3.2				
	0.75	1.5 TL	4.5				
	1.1	2 TL	6	380	180	223	6.7
	1.5	2.5 TL	8				
	2.2	3.5 TL	10				
<b>THREEPHASE 380-480 V 50-60 Hz</b>	3	4.5 TL	13.5	380	281	233	8.8
	4	5.5 TL	16.5				
	0.75	1.5 T	2.5	380	180	189	4.7
	1.1	2 T	3.2				
	1.5	2.5 T	4.5				
	<b>THREEPHASE 380-480 V 50-60 Hz</b>	2.2	3.5 T	6	380	180	223
3		4.5 T	8				
4		5.5 T	10				
<b>THREEPHASE 380-480 V 50-60 Hz</b>	5.5	8 T	13.5	380	281	233	8.8
	7.5	11 T	16.5				