QUALIFICATION WASHING AT 100 BARS

Test conditions

- Period: November to June
- Configuration of the 4 variable speed drives:
  - control panel:
    - 2 with keypads
    - 2 with potentiometers
  - connections:
    - plastic and metal PE, plugs
    - cables: shielded and standard, fieldbus
- Procedure:

1 variable speed drive 24h/24 (potentiometer version) pilots a 1.5 kW motor
Stopped once daily (5 days/7) for pressure washing (100 bars) for 5 min at 70 cm with detergents

Note: no dismantling was carried out during testing

Survey report

After more than 5800 h operation outside in winter and spring weather conditions, after more than 14h jet washing, we can note:

- no trip
- no water penetration
- no internal or external corrosion

(anodised radiator, stainless steel feet)

- labels still intact

Conclusion

PROXIDRIVE is extremely well adapted to these harsh operating conditions

In the different configurations (with keypads or speed control knob, plastic or metal PE), correct wiring (adherence to the sections according to the cable gland, see chart opposite side) and strict compliance with installation instructions (correct positioning of seals, cable gland and cover screw tightening) guarantee the water-tightness of the PROXIDRIVE

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PROXIDRIVE

decentralised variable speed drive solution, without control enclosure, completely autonomous!

PROXIDRIVE is installed within the machine or very near to the operator.
A design which:

- makes installation easy (no more control enclosures)
- is economical (reduced number of components)
- is easy to integrate into an existing installation
- solves disturbance problems (reduced length of motor cable, adapted PE's…,)
- improves reliability (water-tight, robust)

PROXIDRIVE gives reassurance to the operator with controls close at hand.

- Local controls: forward and reverse, stopping, speed variation, re-assignable keys and potentiometer
- Immediate adaptation to flow or production line changes (quick and easy intervention)
- Increased productivity (close proximity)

No matter what the assignment, the PROXIDRIVE offer is flexible and well adapted to the variable speed drive in close proximity of the operator: from the lockable power switch to the incorporation of components required by a watertight and shock resistant cable.

Possible installation of PE

Rep. cable	PE type	Cable diameter (mm) min	max	Assignment
A	M20 standard	7.5	13	Network input supply: L1 L2 L3
B	M20 EMC	6	13	Motor output: U V W
C	*M16 standard*	3	8	*Potential brake command*
D	M16 EMC	4,5	10	Analog or encoder inputs/outputs
E	M20 EMC	6	13	Analog inputs/outputs
F	M16 EMC	4.5	10	Digital or Modbus connection inputs/outputs
G	M16 standard	3	8	Digital or brake command inputs/outputs

Note: The kit has 6 PE. The standard PE's are plastic, the EMC PE's are metal to ensure the continuity of the shielding and EMC conformity.
If required by the number of cables, the hole "C" may be used with a plastic PE.

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