

# 9013FRG22J99

Pumptrol, water pump switch 9013FR, adjust diff., factory setting, reverse action



## Main

|                              |                                         |
|------------------------------|-----------------------------------------|
| Range of product             | Pumptrol                                |
| Pressure sensor name         | 9013FR                                  |
| Pressure sensor size         | 310.26 kPa (68.95...310.26 kPa)         |
| Value of setting             | Specify pressure settings               |
| Electrical circuit type      | Power circuit                           |
| Product specific application | Control electrically driven water pumps |
| Quantity per set             | 1                                       |
| Type of packing              | Individual                              |

## Complementary

|                                     |                                                                                                                                                                                                                                                              |
|-------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Pressure sensor type                | Electromechanical pressure switch                                                                                                                                                                                                                            |
| Controlled fluid                    | Fresh water (-0...70 °C)                                                                                                                                                                                                                                     |
| Adjustable range on rising pressure | 27.58...172.37 kPa                                                                                                                                                                                                                                           |
| Approximate adjustable differential | 41.37...137.90 kPa                                                                                                                                                                                                                                           |
| Destruction pressure                | 1516.8 kPa                                                                                                                                                                                                                                                   |
| Pressure actuator                   | Diaphragm                                                                                                                                                                                                                                                    |
| Pressure switch type of operation   | Regulation between 2 thresholds                                                                                                                                                                                                                              |
| Scale type                          | Adjustable differential                                                                                                                                                                                                                                      |
| Setting                             | Internal                                                                                                                                                                                                                                                     |
| Local display                       | Without                                                                                                                                                                                                                                                      |
| Contacts type and composition       | 2 NO, snap action, DPST-DB, Form XX                                                                                                                                                                                                                          |
| Cable entry number                  | 2 22.35 mm cable entries with 0.84 in across flats conforming to UL 508                                                                                                                                                                                      |
| Electrical connection               | Screw-clamp terminals, clamping capacity: 10 AWG<br>Screw-clamp terminals, clamping capacity: 5.261 mm <sup>2</sup>                                                                                                                                          |
| Fluid connection type               | 0.25 inch NPSF internal conforming to UL 508                                                                                                                                                                                                                 |
| Short-circuit protection            | 20 A cartridge fuse, type gG                                                                                                                                                                                                                                 |
| Materials in contact with fluid     | Zinc plated steel or equivalent flange<br>Nitrile (Buna-N) or equivalent rubber diaphragm                                                                                                                                                                    |
| Material                            | Polypropylene: cover<br>Noryl thermoplastic resin or equivalent: cover                                                                                                                                                                                       |
| Operating position                  | Any position                                                                                                                                                                                                                                                 |
| Motor power kW                      | 0.75 KW (1 hp) at 115 V AC, 1 phase<br>0.75 KW (1 hp) at 230 V AC, 1 phase<br>0.75 KW (1 hp) at 115 V AC, 3 phases<br>0.75 KW (1 hp) at 230 V AC, 3 phases<br>0.18 KW (0.25 hp) at 32 V DC<br>0.18 KW (0.25 hp) at 115 V DC<br>0.18 kW (0.25 hp) at 230 V DC |
| Electrical durability               | 100000 cycles, operating rate <10 cyc/mn                                                                                                                                                                                                                     |
| Mechanical durability               | 300000 cycles                                                                                                                                                                                                                                                |
| Terminal block type                 | 4 terminals                                                                                                                                                                                                                                                  |
| Maximum operating rate              | 10 cyc/mn                                                                                                                                                                                                                                                    |
| [Ui] rated insulation voltage       | 575 V conforming to UL 508                                                                                                                                                                                                                                   |
| Net weight                          | 0.5 kg                                                                                                                                                                                                                                                       |
| Repeat accuracy                     | +/- 3 %                                                                                                                                                                                                                                                      |
| Terminals description ISO n°1       | L1-T1<br>L2-T2                                                                                                                                                                                                                                               |
| Width                               | 70.61 mm                                                                                                                                                                                                                                                     |

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|                      |          |
|----------------------|----------|
| Height               | 94.23 mm |
| Depth                | 95.50 mm |
| Factory modification | -        |

## Environment

|                                       |                                     |
|---------------------------------------|-------------------------------------|
| Standards                             | NSF ANSI 61 Annex G<br>UL 508<br>CE |
| Ambient air temperature for operation | -22...158 °F                        |
| Ambient air temperature for storage   | -22...158 °F                        |
| Protective treatment                  | None                                |
| NEMA degree of protection             | NEMA 1 conforming to UL 50          |
| IP degree of protection               | IP20 conforming to IEC 60529        |
| Product certifications                | UL listed[RETURN]CSA                |

## Packing Units

|                              |           |
|------------------------------|-----------|
| Unit Type of Package 1       | PCE       |
| Number of Units in Package 1 | 1         |
| Package 1 Height             | 25.806 cm |
| Package 1 Width              | 10.16 cm  |
| Package 1 Length             | 65.548 cm |
| Package 1 Weight             | 453.592 g |

## Offer Sustainability

|                                            |                                                                                                                                                                                                                                                                                                                                                                                   |
|--------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Sustainable offer status                   | Green Premium product                                                                                                                                                                                                                                                                                                                                                             |
| California proposition 65                  | WARNING: This product can expose you to chemicals including: Diisononyl phthalate (DINP), which is known to the State of California to cause cancer, and Di-isodecyl phthalate (DIDP), which is known to the State of California to cause birth defects or other reproductive harm. For more information go to <a href="http://www.P65Warnings.ca.gov">www.P65Warnings.ca.gov</a> |
| For all Reach Rohs enquiries contact us at | <a href="mailto:sustainability@tesensors.com">sustainability@tesensors.com</a>                                                                                                                                                                                                                                                                                                    |

## Contractual warranty

|          |           |
|----------|-----------|
| Warranty | 18 months |
|----------|-----------|