

Danfoss KP-36

Danfoss Pressure Switch KP-36 Instruction Manual

Model: KP-36

1. PRODUCT OVERVIEW

The Danfoss KP-36 Pressure Switch is a robust and reliable device designed for monitoring, alarm, and control systems in various industrial applications, including factories, power stations, and onboard ships. This switch operates within a pressure range of 10 to 60 PSI and features a G ¼ thread connection for easy integration into existing systems. It is engineered to provide precise pressure regulation and ensure the safe and efficient operation of machinery.



Figure 1.1: Front view of the Danfoss KP-36 Pressure Switch, showing the range and differential scales, and the Danfoss logo.

The KP-36 is part of a series of pressure switches known for their durability and accuracy, making them suitable for demanding environments. This model is supplied as a pack of five units, providing convenience for larger installations or spare parts.

2. SAFETY INFORMATION

Always prioritize safety during installation, operation, and maintenance of the Danfoss KP-36 Pressure Switch. Failure to follow these guidelines may result in equipment damage, personal injury, or death.

- **Qualified Personnel:** Installation and maintenance should only be performed by qualified and authorized personnel familiar with electrical and pressure systems.
- **Power Disconnection:** Ensure all power supplies to the system are disconnected before commencing any installation, wiring, or maintenance work.

- **Pressure Release:** Verify that the system pressure is fully released and isolated before connecting or disconnecting the pressure switch.
- **Environmental Conditions:** The switch has an International Protection Rating of IP54, indicating protection against dust ingress and splashing water. Do not expose the device to conditions beyond its specified IP rating.
- **Proper Tools:** Use appropriate tools for installation and adjustment to prevent damage to the switch or system components.
- **Original Parts:** Use only genuine Danfoss spare parts if replacements are necessary.

3. SETUP AND INSTALLATION

Proper installation is crucial for the accurate and reliable operation of the KP-36 Pressure Switch.

3.1 Mounting

The pressure switch should be mounted in a location where it is protected from excessive vibration, direct sunlight, and extreme temperatures. Ensure there is sufficient space for wiring and pressure connection.



Figure 3.1: Angled view of the KP-36, illustrating its compact design suitable for various mounting orientations.

3.2 Pressure Connection

The KP-36 features a G ¼ thread connection. Apply appropriate thread sealant (e.g., PTFE tape) to the male thread of the switch before screwing it into the system's pressure port. Tighten securely but do not overtighten to avoid damaging the threads or the switch.



Figure 3.2: Bottom view of the KP-36, highlighting the G ¼ thread connection point.



Figure 3.3: Detailed view of the G 1/4 thread connection, emphasizing the robust construction.

3.3 Electrical Wiring

The KP-36 is equipped with an SPDT (Single Pole Double Throw) terminal. Refer to the wiring diagram provided with the product for correct connections. Ensure all electrical connections are secure and comply with local electrical codes. The switch supports 1-way circuit type operation.

- Identify the common (C), normally open (NO), and normally closed (NC) terminals.
- Connect the power supply and load according to your system's control logic.
- Ensure proper grounding.

4. OPERATING INSTRUCTIONS

The Danfoss KP-36 Pressure Switch allows for adjustment of its pressure range and differential to suit specific application requirements.

4.1 Adjusting Pressure Range

The main pressure setting (cut-in or cut-out pressure) is adjusted using the large screw located on the top of the switch, typically marked "RANGE". Turn the screw clockwise to increase the set pressure and counter-clockwise to decrease it. Observe the scale visible through the window to set the desired pressure within the 10 to 60 PSI range.

4.2 Adjusting Differential

The differential (the difference between cut-in and cut-out pressure) is adjusted using a smaller screw, usually marked "DIFF". Adjusting this screw changes the pressure hysteresis. A larger differential means a wider gap between the pressure at which the switch activates and deactivates. This adjustment helps prevent rapid cycling of the connected equipment.



Figure 4.1: Angled view of the KP-36, showing the top-mounted adjustment screws for range and differential settings.

The switch operates in "Auto, Electric, Electrical" modes, implying its capability for automatic pressure control within an electrical circuit. The "Touch" control method likely refers to the tactile adjustment of the screws for setting the pressure parameters.

5. MAINTENANCE

The Danfoss KP-36 Pressure Switch is designed for long-term, reliable operation with minimal maintenance. However, periodic checks can help ensure optimal performance and extend its lifespan.

- **Visual Inspection:** Regularly inspect the switch for any signs of physical damage, corrosion, or loose connections.
- **Connection Integrity:** Check the pressure connection for leaks and the electrical wiring for fraying or loose terminals.

- **Environmental Cleanliness:** Keep the area around the switch clean and free from excessive dust or moisture, consistent with its IP54 rating.
- **Functional Test:** Periodically verify the switch's operation by observing its cut-in and cut-out points against a known pressure source, if feasible and safe to do so.

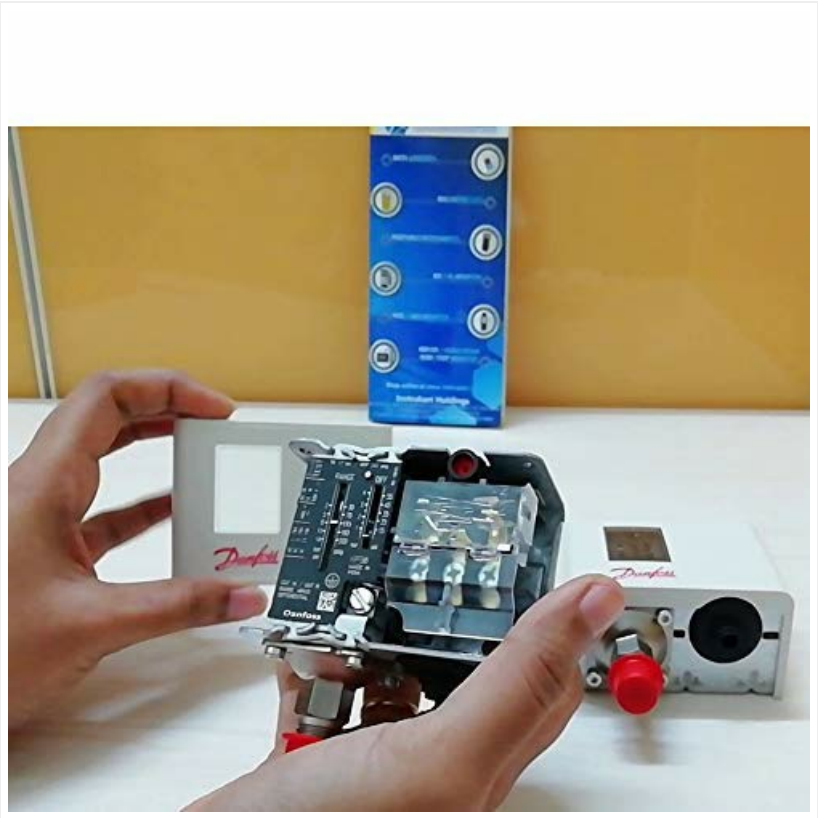


Figure 5.1: Internal view of the KP-36, showing the robust mechanical and electrical components. *Note: Internal access should only be performed by qualified technicians.*

6. TROUBLESHOOTING

This section provides guidance for common issues encountered with the Danfoss KP-36 Pressure Switch. For complex problems, contact a qualified technician or Danfoss support.

Problem	Possible Cause	Solution
Switch not activating/deactivating	Incorrect pressure setting; wiring error; no pressure in system; faulty switch.	Verify pressure settings; check wiring connections; confirm system pressure; test switch continuity (if qualified).
Erratic switching	Pressure fluctuations; incorrect differential setting; vibration; debris in pressure line.	Stabilize pressure source; adjust differential; reduce vibration; clean pressure line.
Pressure leak at connection	Improper thread sealant; loose connection; damaged threads.	Reapply thread sealant and retighten; inspect threads for damage and replace if necessary.

7. SPECIFICATIONS

Key technical specifications for the Danfoss KP-36 Pressure Switch:

Parameter	Value
Brand	Danfoss
Model	KP-36
Pressure Range	10 to 60 PSI
Connection Type	G ¼ Threaded
Operation Mode	Auto, Electric, Electrical
Terminal Type	SPDT (Single Pole Double Throw)
Circuit Type	1-way
International Protection Rating	IP54
Unit Count (as supplied)	5.0 Count
Manufacturer	Danfoss
Date First Available	April 9, 2019

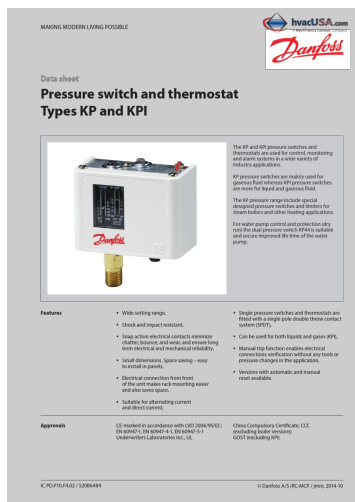
8. WARRANTY AND SUPPORT

Danfoss products are manufactured to high standards and are typically covered by a manufacturer's warranty against defects in materials and workmanship. For specific warranty terms and conditions, please refer to the documentation included with your purchase or visit the official Danfoss website.

For technical support, troubleshooting assistance beyond this manual, or warranty claims, please contact Danfoss customer service or your authorized Danfoss distributor. Ensure you have your product model number (KP-36) and purchase details available when contacting support.

You can find more information and contact details on the official Danfoss website:www.danfoss.com

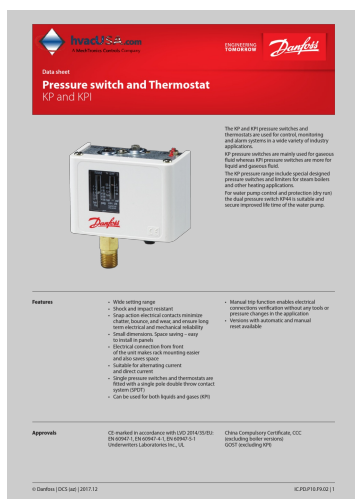




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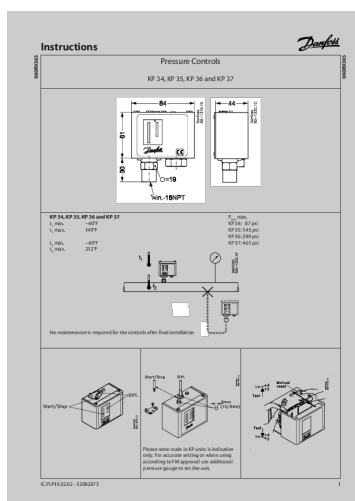


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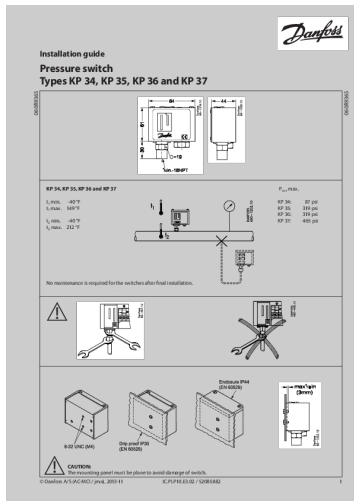
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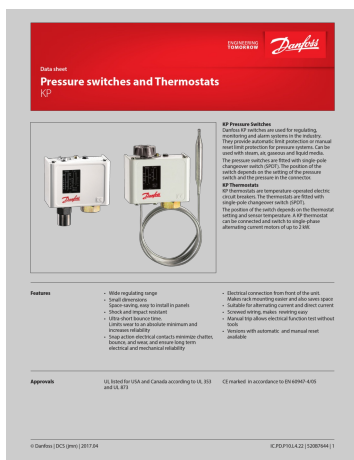
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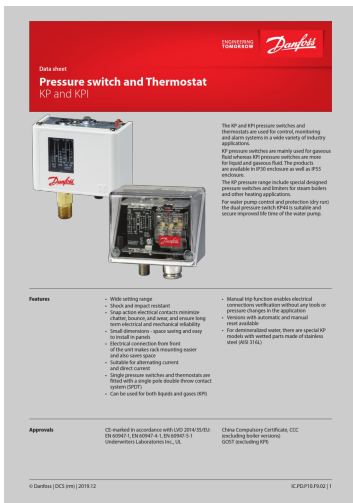


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Danfoss Cooling Documentation Data Sheet Pressure switches and thermostats Type Simplified drawing of KP thermostat without front cover scale Version with manual reset Range setting spindle Differential Main arm spring Bellows Temperature sensors Contact system Terminals Ground terminal Cable entry ½ in female cable gland Tumbler Locking screw Manual Distance plate AI209986438809en 000602 assets danfoss documents 162335

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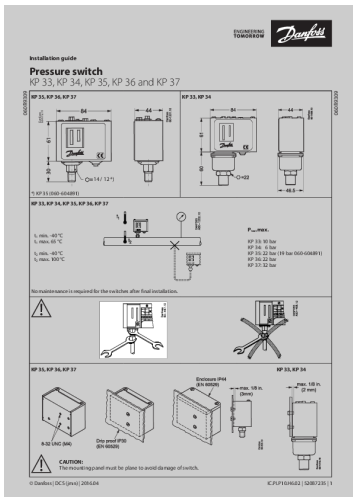


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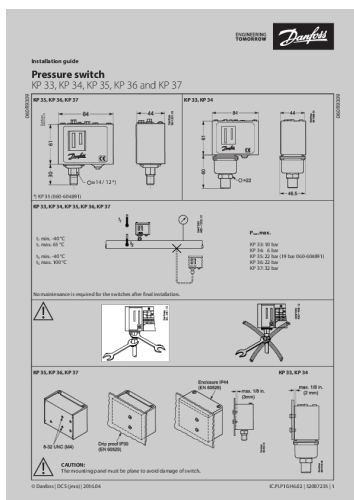
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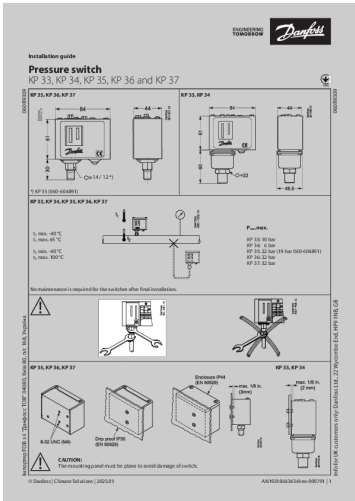
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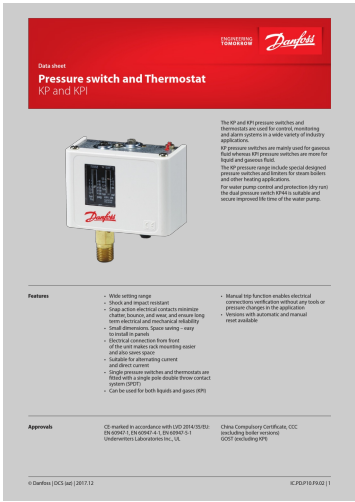
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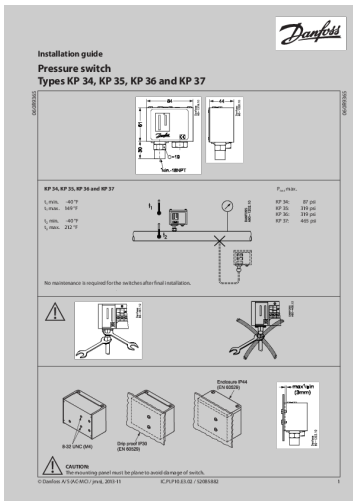
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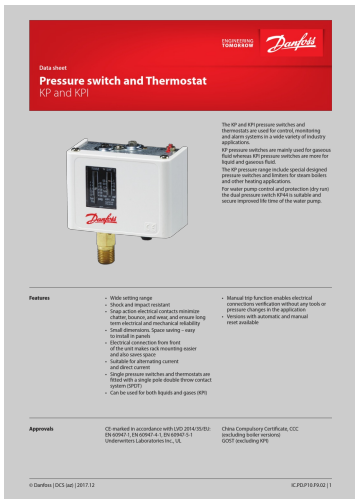
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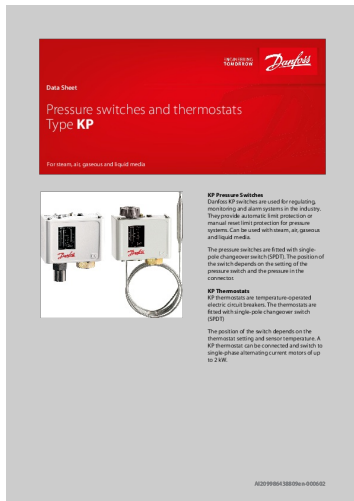
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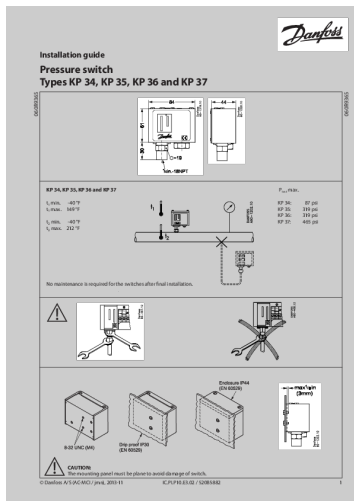


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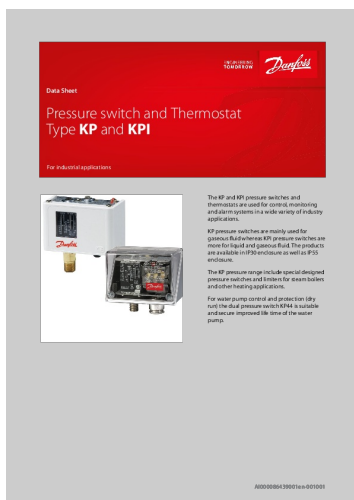
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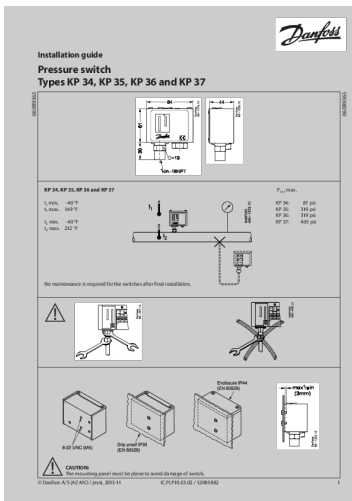


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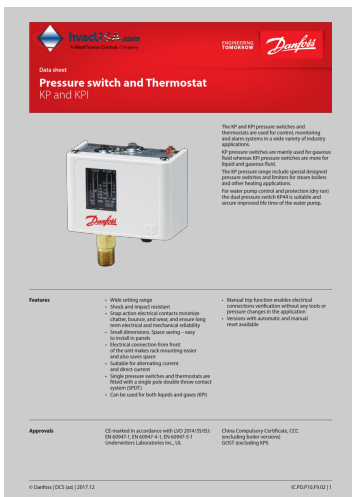
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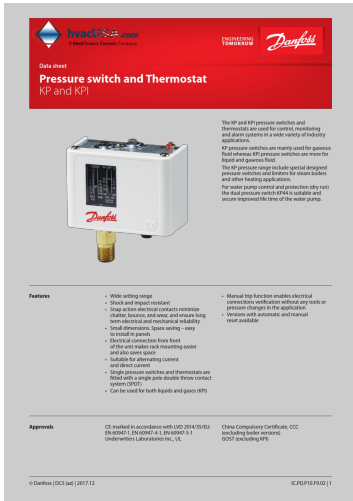
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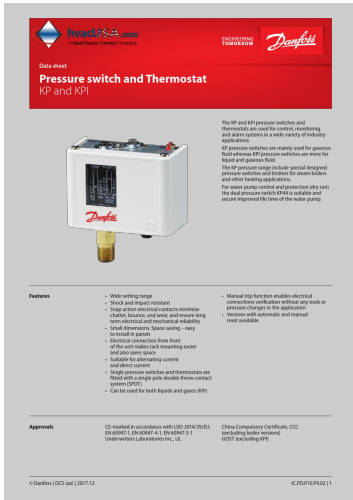
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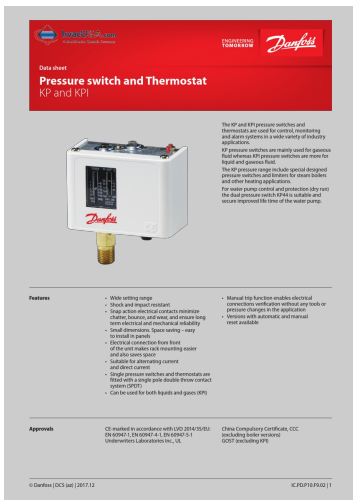
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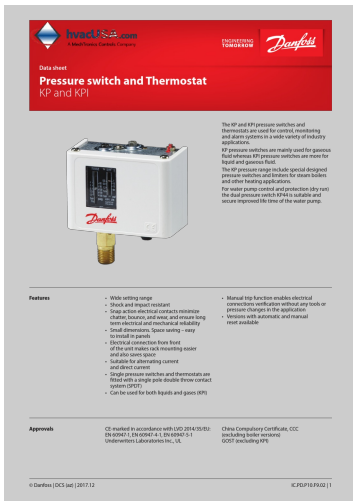
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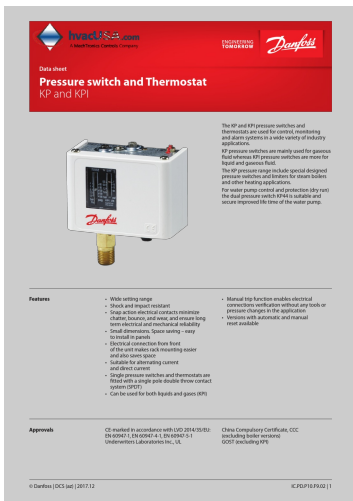
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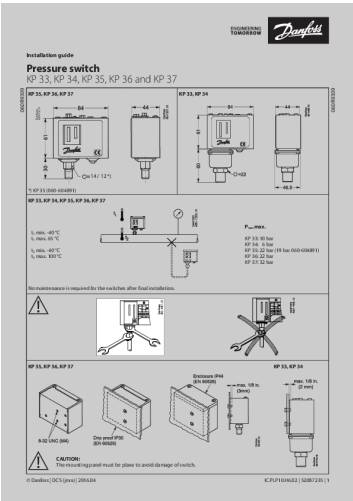


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060R9309 Danfoss 60-572.11 060R9309 Installation guide Pressure switch KP 33, KP 34, KP 35, KP 36 and KP 37 KP 35, KP 36, KP 37 KP 33, KP 34 14 / 12 * * KP 35 060-604891 KP 33, KP 34, KP 35, KP 36, KP 37 t1 min. -40 C t1 max. 65 C t2 min. -40 C t2 max. 100 C No maintenance is required for t...

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