

Teknatool International Limited

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Email: service@teknatool.comWebsite: www.teknatool.com**Frequently Asked Questions****Which GFI/GFCI is compatible with DVR Motors?**

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Safe practices should always be employed to ensure the Health and Safety of yourself, employees and customers (if applicable) Refer to product manuals, exploded drawings and our website if further assistance is required, or contact us on service@teknatool.com

Date Amended

What is a GFI/ GFCI?

Ground Fault Interrupter (GFI) or Ground Fault Circuit Interrupter (GFCI) is a common protection device found in your outlets (often around kitchens, workshop etc) where electrical appliances may draw a large amount of electrical current during operation. GFI's main purpose is to protect the human body from electrical shock when someone touches a Hot/ Live wire or a short circuit. It is also used to protect the connected electrical circuits from electrical current surges to prevent damage to the circuits. The GFI will shut off and isolate power source when it detects an imbalance in current coming out from its outlet, the threshold of this imbalance is denoted as the "Leak Current Threshold".

GFI/ GFCI compatible with DVR products

The GFI/ GFCI compatibility between the GFI and DVR products is mainly dependent on the value of the leak current threshold. Due to the electrical characteristic of the DVR motor, there might be a large imbalance in current during its operation which may be enough to trigger the GFI/ GFCI in a typical household. Typical GFI found in households will be rated with a leak current threshold of 5mA (0.005A) which may trigger during the operation of the DVR motor.

A **GFI/ GFCI with a leak current threshold rating of 30mA (0.03A)** is recommended to be compatible with the DVR motors without the worry of triggering during operation.

Note:

Frequent triggering of GFI will not cause any harm to the electronics of the DVR motor as it has an integrated protection against it.

If the GFI/ GFCI installed on the outlet does not have enough have a high enough leak current threshold, the DVR motors should be plugged into an unprotected outlet as the DVR motor controller circuit is integrated with a surge protector.