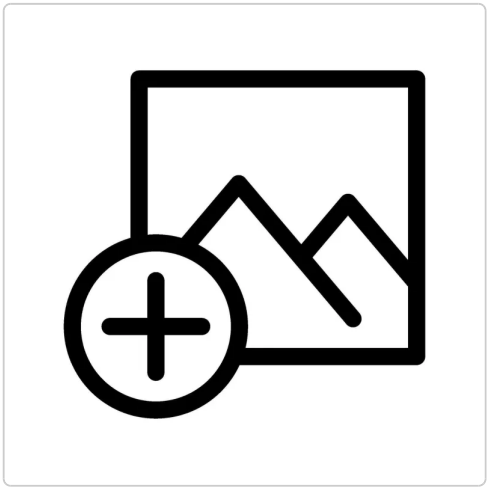
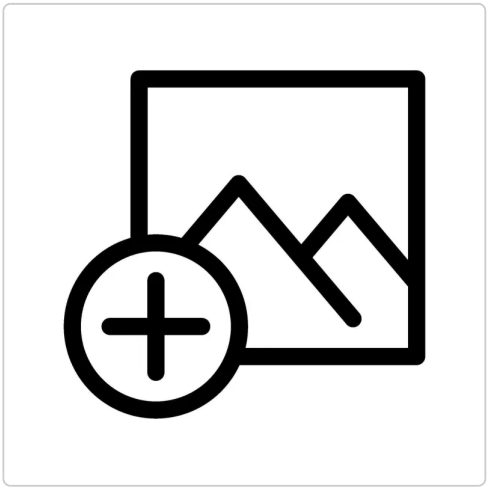
Product datasheet

Version: 24/06/2026

EVEA - E-GX270 - Electric motorization





Reference : EVE-GX270-48-72V-4-9KW

Brand : EVEA

Options :

No variants

3D Model : Available

EAN-13 : 3762552429063

EVEA E-GX270 is a GX270 electric motor designed to replace a Honda GX270 engine or a thermal unit of similar format in a machine conversion project based on a 48 V or 72 V architecture. This integrated electric drive combines a compact format, a 25.4 mm (1") front shaft, three power variants from 4 to 9 kW and a reference speed of 3500 rpm to provide a more directly usable electric alternative for utility, agricultural or industrial machines.

The E-GX270 is not presented as a generic electric motor, but as a GX270-type replacement module intended to simplify the mechanical and electrical integration of a conversion. The product is available in 48V-L 4 kW, 48V-H 6 kW and 72V-H 9 kW versions, with a single housing and an installation logic suited to projects where compact packaging and drivetrain take-off are key decision points.

GX270 format

GX270 electric motor for machine conversion

In an electric machine conversion project, the main advantage of the E-GX270 lies in its clear positioning: replacing the function of a compact thermal engine with an integrated electric drive, in a volume consistent with a machine originally structured around a GX270-type block. The product should therefore be considered as a base for electric machine conversion, with a usable envelope, an identifiable output face and an integration logic intended to limit scattered adaptations around the chassis.

48V / 72V choice

Which E-GX270 version to choose

The E-GX270 electric motor is offered in three power levels: 4 kW in 48V-L, 6 kW in 48V-H and 9 kW in 72V-H. The choice between 48 V and 72 V should not be reduced to a simple “more volts = more performance” approach. It also affects the battery architecture, power cabling sizing, upstream protection, control strategy and thermal integration margins. In

practice, the right method is to define the machine requirement first, then select the E-GX270 version that matches the power level, target DC bus and operating constraints.

E-GX270 data

Parameter	Value
Brand	EVEA
Model	E-GX270
Description	Integrated electric drive, GX270 type
Positioning	Honda GX270 replacement / GX270-type thermal engine replacement
Available versions	48V-L / 48V-H / 72V-H
48V-L power	4 kW
48V-H power	6 kW
72V-H power	9 kW
Rated speed	3500 rpm
Overall length	403 mm
Main assembly length	311 mm
Housing depth	242.5 mm
Maximum width	395 mm
Maximum height	356 mm
Upper block referenced width	195.5 mm
Upper block height references	83 mm / 96 mm
Output shaft diameter	25.4 mm (1")
Lower base reference	117 mm
Front face vertical references	60 mm / 89 mm / 130 mm
Power connector	Dedicated connector
Control connector	Dedicated connector
External architecture	Closed housing with side vents
Mechanical layout	Front shaft on mounting plate
Target uses	Utility, agricultural and industrial machines, GX270-format machine conversions

1-inch shaft

Honda GX270 engine replacement

The front mechanical interface is another strong point of the product. The E-GX270 uses a front protruding shaft layout with a 25.4 mm (1") diameter. For a Honda GX270 replacement project, this information is far more useful than a simple power claim, because it determines the coupling, coaxiality, support quality and the radial loads transmitted to the assembly. Electric conversion of a GX270-format machine must therefore be approached as a controlled mechanical adaptation, not as a standard swap without re-alignment.

Target machines

Electric alternative to GX270 engine

The E-GX270 is particularly well suited to projects looking for an electric alternative to a Honda GX270 thermal engine on a special machine, light agricultural equipment, utility machine, auxiliary unit or compact industrial system. In this context, the main benefit is not only switching from one energy source to another. It lies in the possibility of redesigning around a GX270-type integrated electric drive with a known envelope, an identifiable front shaft, clearly positioned 48 V and 72 V variants and a more direct integration logic for the drivetrain.

48V or 72V GX270 electric motor

For an electric machine conversion, the product also helps structure decision-making. The 48V-L 4 kW version can suit applications where a simple DC bus and controlled power increase are preferred. The 48V-H 6 kW version is an intermediate option for keeping a 48 V environment with higher reserve. The 72V-H 9 kW version is better suited to integrations seeking a higher performance level, provided that the battery, protections, control strategy and power links are dimensioned accordingly. This progression makes the E-GX270 more relevant than a single non-configurable motor.

Integrated module

Integrated GX270 electric drive

The “all-in-one” approach has a concrete meaning here. The product does not simply provide power and an output shaft; it offers a coherent module for projects that want to avoid scattering the motor, interfaces and mechanical adaptation across several subassemblies. This is particularly useful when an integrator needs to convert an existing machine within tight deadlines, limited available volume and a high requirement for maintainability. In this type of project, the real value of the E-GX270 electric drive lies in serving as a fixed point around which the whole system can be organized: support, coupling, battery, protections, control, harness and service environment.

Integration points

Can this electric drive replace a Honda GX270 engine?
Yes. The product is specifically positioned as a GX270 electric motor intended to take over the function of a thermal engine from the same family or with the same format, subject to full validation of the mechanical and electrical integration.

Which version should be selected between 48V-L, 48V-H and 72V-H?
The choice depends on the required power level, battery architecture, power cabling, protection devices and the expected behavior of the converted machine.

Does the output shaft make GX270-type mechanical adaptation easier?
The 25.4 mm (1") diameter and the front shaft layout clearly support this approach, but coupling, alignment and frame stiffness still need to be validated on the real machine.

Is this all-in-one electric motor enough on its own to complete a conversion successfully?
No. It provides a coherent motorization base, but the success of the project also depends on the battery, control strategy, electrical protection, support design and drivetrain.

Validated conversion

The EVEA E-GX270 is a credible answer for projects looking for a GX270 electric motor or an electric alternative to a Honda GX270 engine in a utility, agricultural or industrial machine. Its value does not rely only on its 4, 6 and 9 kW versions, but on its ability to serve as a coherent integration base within a machine conversion project. Final validation must always be carried out at full system level, including checks of the mechanical layout, electrical chain, drivetrain and real operating conditions.

Frequently associated searches for this product: 48V utility machine motor, 72V agricultural machine motor, 72V GX270 electric motor. See the corresponding category

Sheet written by **Hugo C.** and reviewed by the EVEA Distribution technical team — Last updated on 24/06/2026.