

Schneider Series Service Manual

ATV61HU40N4

1. Description

The ATV61HU40N4 is a variable-speed drive from Schneider Electric's Altivar 61 series, suited for controlling motors in industrial applications. It offers a power rating of 4 kW (5 HP) and operates within a supply voltage of 380 to 480 V, 3-phase.

2. Specifications

Specification	Value
Manufacturer	Schneider Electric
Product	Type Variable Speed Drive
Product	Line Altivar 61
Part	Number ATV61HU40N4
EAN	3389118080188
Weight	25.00 lbs (11.34 kg)
Line	Current 5.4 A
EMC	Filter Integrated EMC filter
Apparent	Power 5.5 kVA
Protection	Rating IP20
Supply	Voltage 380-480 V, 3-phase
Nominal	Switching Frequency 12 kHz
Power	Rating 4 kW / 5 HP
Supply	Frequency 50/60 Hz
Switching	Frequency Range 1-16 kHz adjustable
Assembly	Style With heat sink
Maximum	Transient Current 7.5 A (60 seconds)

3. Product Information

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Technical specifications for ATV61HU40N4

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Switching Frequency Range 1-16 kHz adjustable

Assembly Style With heat sink

Maximum Transient Current 7.5 A (60 seconds)

The Schneider Electric ATV61HU40N4 belongs to the Altivar 61 series, which provides precise motor control via its variable speed drive feature. This unit supports a 3-phase power supply and operates effectively within a voltage range of 380 to 480 volts. It is rated at 4 kW or 5 horsepower and manages a line current of 5.4 A, allowing for optimized performance in applications requiring variable speed functionality.

Equipped with an integrated EMC filter, the ATV61HU40N4 demonstrates enhanced resistance to electromagnetic interference, ensuring reliability in sensitive environments. The device holds an IP20 protection rating, indicating its design is suitable for indoor use while providing a basic physical barrier against dust and accidental contact.

Its nominal switching frequency operates at 12 kHz, but users can adjust the switching frequency within a range of 1 to 16 kHz to meet specific operational needs. The maximum transient current it can handle stands at 7.5 A for durations up to 60 seconds, illustrating its capacity to manage short-term overload conditions. Weighing 1.77 kg, this drive is manufactured with an assembly style that includes a heat sink to dissipate heat effectively, promoting longer operational life and stability. The supply frequency is compatible with both 50 and 60 Hz systems, providing flexibility for installation in different geographical regions.