01 / Assembly identity and work scope

SEW

MDX61B0110-5A3-4-00

Drive Inverter

Complete-drive boundary

Plan the MDX61B0110-5A3-4-00 as the complete drive, including the photographed MDX60A0110-5A3-4-00 power section and MDX61B-00 control unit. Installed option cards and parameter settings are separate configuration items. This Apter Power planning guide does not replace the original SEW installation and commissioning instructions.

Identify
Assembly and component labels

>

Preserve
Options, wiring and parameters

>

Verify
Motor and controlled operation

Identification	Offered assembly relationship
Complete drive	MDX61B0110-5A3-4-00; P/N 08279632
Power section	MDX60A0110-5A3-4-00; P/N 08226857
Control unit	MDX61B-00; P/N 08243492

02 / Power circuit and thermal readiness

Planning item	Applicable value or condition
Supply	Three-phase 380-500 VAC; 50-60 Hz +/-5%.
Nominal output	24 A at 400 V; 11 kW recommended constant-load motor.
500 V operation	Reduce nominal line and output currents by 20%.
Continuous output	30 A at 400 V and 4 kHz under the 125% current thermal condition.
Braking	Minimum resistance 22 ohms; match resistor duty, power and protection.
Size-2 terminals	1.5 Nm power-terminal torque; applicable UL wiring uses 60/75 degrees C copper wire.

Thermal condition

At 4 kHz PWM, 100% nominal current permits 0-50 degrees C ambient; 125% continuous current permits 0-40 degrees C. Higher switching frequency changes the available current and thermal conditions. Keep the temperature-controlled forced-cooling path unobstructed.

Stored energy and motion

Isolate all supplies and secure the driven machine. Follow the applicable SEW discharge and absence-of-voltage procedure before terminal work; controller inhibit alone does not establish electrical isolation.

03 / Command wiring and interface configuration

Interface	Configuration relationship
Analog setpoint X11	AI11/AI12 differential input; coordinate S11 and P11_ with voltage or current signal.
Digital inputs	DI00 controller inhibit is fixed; seven remaining inputs use selectable functions in P60_.
Digital outputs	Keep the brake-output role and configured status functions. Do not apply an external voltage to outputs.
SBus X12	CAN 2.0 A/B system bus; match network topology and required 120-ohm termination.
RS485 X13	9.6 kBaud basic serial interface; match the installed station arrangement.

Analog range and resolution

The input supports 0-10 V, +/-10 V, 0-20 mA and 4-20 mA, sampled every 1 ms. Voltage conversion is 12-bit and current conversion is 11-bit. Preserve the actual range selection and reference wiring before transferring a setpoint source.

24 V current budget

The basic electronics provide up to 400 mA total for the 24 V auxiliary and digital outputs. If the connected load exceeds that available supply, follow the manufacturer external 24 V supply arrangement at VI24.

04 / Replacement and commissioning decisions

Before removal
Save identity and parameters

>

Before enable
Confirm wiring and limits

>

Before release
Validate controlled response

Stage	Acceptance evidence	If inconsistent
Identity	Whole-drive, power-section and control-unit markings agree with the approved scope.	Resolve the component or revision mismatch.
Configuration	Motor data, operating mode, option cards and I/O assignments are retained.	Do not assume the base-model code defines options.
Setpoint test	The selected analog range and actual command produce the intended response.	Recheck S11, P11_ and the signal reference.
Motor test	Direction, limiting and stopping behavior match the machine procedure.	Stop the controlled test and resolve the cause.

Braking review

A compliant 22-ohm minimum does not establish sufficient resistor power or a safe duty cycle. Coordinate regenerative loading, protection and stopping behavior with the actual drive application.

Service record

Retain the final parameter set, communication setup, installed options and controlled-test results. A standard-design suffix does not imply that application-version software or an arbitrary fieldbus option is included.

05 / Support and technical handover

Handover identity

Record MDX61B0110-5A3-4-00 as the complete offered drive. Preserve the separate power-section and control-unit references in the service record, along with the actual motor and options.

Support boundary

The current manufacturer lifecycle phase for this exact assembly has not been confirmed. Request support and migration guidance using the complete installed identity; Apter Power availability and dispatch are confirmed separately in the quotation.

Reference basis

SEW-EURODRIVE MOVIDRIVE MDX60B/61B Catalog, 27793206/EN, edition 08/2022; Information regarding UL, 20116144/EN, edition 03/2013.

Apter Power technical summary; not a manufacturer-issued manual. Apply the original instructions for the actual installation.

Related industrial automation products

Navigation only; no substitution or compatibility claim.

ABB YPC111B

ABB NDCU-33CX 3AUA0000052751

ABB SNAT7600

Discuss your installed configuration

Send the full unit marking and connection details.

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