ABB TA25DU-1.8M 1SAZ211201R2025

01 Motor current and overload-range identity

1 Record the 1.30–1.80 A setting range

Record the motor nameplate current, starter arrangement and existing overload setting. Confirm TA25DU-1.8M with order code 1SAZ211201R2025, not a neighboring range. Capture the manual/automatic reset selection and the use of both auxiliary contacts.

2 Keep the full TA25DU-1.8M order code

Compare the motor nameplate current and existing setting with this relay's adjustment range. Preserve 1SAZ211201R2025 as part of the identity rather than accepting a neighboring TA25DU range from its similar housing.

Record	Complete marking and installed position
Comparison	Field labels agree with application assignments
Current setting range	1.30–1.80 A
Trip class	10A

TA25DU-1.8M 1SAZ211201R2025

02 Starter coordination and circuit isolation

1 Check contactor and short-circuit protection

Isolate the motor power and control circuits. Check coordination with the contactor and short-circuit protective device; the range table references 6 A gG or 4 A aM, but the complete installation determines the required protective arrangement.

2 Treat fuse references as coordination inputs

Use the 6 A gG or 4 A aM references with the applicable complete starter arrangement. These values do not independently establish protection coordination for every contactor, motor duty or prospective fault condition.

Supply evidence	Measured at the device connection
Work condition	Power isolated while wiring is handled
Main poles	3
Operational voltage	690 V AC

TA25DU-1.8M 1SAZ211201R2025

03 Three-pole and auxiliary-contact wiring

1 Restore main poles and 95–98 terminals

Restore all three main poles and the separate 95–96 NC and 97–98 NO circuits. Use 1.4–2.0 N·m on the main terminals and 0.8–1.3 N·m on auxiliary terminals. Inspect conductor size, ferrules and terminal engagement before closing the starter.

2 Check trip and indication circuits separately

Trace 95–96 as the normally closed path and 97–98 as the normally open path. Verify their assigned control functions independently instead of treating a successful indicator test as proof that the contactor-interruption circuit works.

Wiring record	Connection-by-connection comparison
Physical inspection	Shield, connector and strain relief checked
Auxiliary contacts	1 NO + 1 NC
Reset selection	Manual or automatic

TA25DU-1.8M 1SAZ211201R2025

04 Overload setting and reset behavior

1 Set the range for the actual motor duty

Set the relay within 1.30–1.80 A for the actual motor and duty. Confirm the chosen reset mode cannot cause an unintended restart. Retain the phase-loss-sensitive three-pole wiring and the intended temperature-compensated installation.

2 Prevent automatic reset from causing unintended restart

Check how the selected reset mode interacts with the starter control circuit. Preserve the phase-loss-sensitive three-pole arrangement and investigate unexpected trips rather than increasing the setting beyond the motor requirement.

Configuration	Approved settings restored
Diagnostic condition	Normal recognition before functional testing
Short-circuit fuse reference	6 A gG or 4 A aM
Impulse withstand	6 kV

TA25DU-1.8M 1SAZ211201R2025

05 Trip function and motor-run acceptance

1 Test interruption and trip indication

Operate the test function and verify contactor interruption and trip indication separately. Confirm the selected reset sequence, then observe the motor during the approved start and running test. Investigate an unexpected trip rather than increasing the setting beyond the motor requirement.

2 Verify the complete reset-to-restart sequence

Confirm both the relay reset and the starter's subsequent command behavior before a controlled motor run. Record the observed trip indication separately from contactor opening so either failed path remains visible in the acceptance record.

Technical basis: ABB Motor Protection and Control Catalogue, 1SBC100179C0201; TA25DU-M technical data 2CDC106056C0201.

Related product navigation

ABB KUC711 AE101 3BHB003688R0101

ABB 1TGE102009R2300

These are related references, not confirmed substitutes or an automatically approved assembly.