ABB TA25DU-M

01 Family checks

1 Identify the actual current-range variant

Read the current scale and complete marking on the offered relay. TA25DU-M alone does not specify a setting range, so record the motor full-load current and confirm that it falls within the actual adjustment range before installation.

2 Match the motor starting duty

Compare the trip class 10A characteristic with the motor's starting requirement and protection design. A relay chosen only for steady-state current may not be appropriate for the acceleration time or operating cycle.

Family	TA25DU-M
Actual range	Read from offered unit
Trip class	10A

02 Thermal sensing checks

1 Restore all three sensing paths

Mark the power conductors before removal and reconnect them in the specified arrangement. The three-pole bimetal mechanism and phase-failure sensitivity depend on the intended circuit connection, including the applicable single-phase arrangement if used.

2 Coordinate short-circuit protection

Retain the specified upstream protective device and coordination arrangement. The thermal relay responds to overload conditions; fitting it does not replace the required short-circuit protection for the motor circuit.

Thermal sensing	Three poles
Phase failure	Sensitive
Short-circuit protection	Separate coordinated device

03 Trip contact checks

1 Distinguish trip and signal contacts

Trace 95-96 and 97-98 separately. The NC trip path and NO indication path have different functions and thermal ratings, so do not interchange their loads simply because both are auxiliary contacts.

2 Check the actual switching duty

Compare the control voltage and load category with the auxiliary-contact switching ratings. Conventional thermal current is not an unrestricted switching-current allowance for every inductive or DC control load.

Trip contact	95-96 NC
Signal contact	97-98 NO
Thermal current	NC 10 A; NO 6 A

04 Reset selection checks

1 Set the intended reset behavior

Choose manual or automatic reset only in accordance with the machine control design. Confirm that a reset cannot cause an unintended restart, and retain the selected setting with the overload adjustment record.

2 Exercise TEST and STOP functions

With the motor circuit in the approved maintenance state, verify the intended control response using the relay's test and stop facilities. Confirm both contactor dropout and signalling behavior rather than relying only on the front indication.

Reset selection	Manual or automatic
Functional controls	TEST and STOP
Restart behavior	Verify machine control design

TA25DU-M

05 Remote reset checks

1 Limit any remote-reset pulse

If a DR25-A accessory is fitted, check its voltage and use a reset pulse no longer than 0.2 seconds. Preserve the intended contact arrangement and investigate a failed reset without holding the coil continuously energized.

2 Retain the protection settings

Record the actual current-range variant, motor current, final dial position, reset mode and control-circuit test results. Release the motor only after overload and upstream protection coordination have been confirmed for the installation.

Technical basis: ABB Motor Protection and Control catalogue 1SBC100179C0201.

Related product navigation

ABB 1SDA083360R1

ABB TA25DU-1.8M 1SAZ211201R2025

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