APTER POWER

INDUSTRIAL AUTOMATION PRODUCT

TA25DU-M

Thermal Overload Relay

ABB TA25DU-M is a three-pole, phase-loss-sensitive thermal overload relay with trip class 10A, one normally open and one normally closed auxiliary contact for documented motor-protection circuits.

CONTROLLED ENGINEERING COPY

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
System family	ABB TA25DU motor protection
Part number	TA25DU-M
Origin / HS	Sweden / 8537101190
Shipping origin	Xiamen, Fujian, China

DOCUMENT SCOPE

Exact article identity, official technical data, host matching, installation checks, applications, precautions and controlled acceptance evidence.

MODEL-SPECIFIC ENGINEERING NOTE

Confirm TA25DU-M, documented ABB contactor and motor feeder, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

System Role and Architecture

ABB TA25DU-M is a three-pole, phase-loss-sensitive thermal overload relay with trip class 10A, one normally open and one normally closed auxiliary contact for documented motor-protection circuits.

FUNCTION 1
Provides trip class 10A overload protection

FUNCTION 2
Responds to phase loss

FUNCTION 3
Uses one NO and one NC auxiliary contact

FUNCTION 4
Supports contactor or DIN-rail mounting with approved hardware

MATCHED SYSTEM COMPONENTS

NO.	DOCUMENTED COMPONENT / ROLE
01	ABB TA25DU motor protection
02	documented ABB contactor and motor feeder
03	three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls
04	Approved wiring, shielding and grounding arrangement

SYSTEM INTEGRATION RECORD

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	ABB TA25DU motor protection
Interface role	motor overload and phase-loss protection
Field / power context	documented ABB contactor and motor feeder
Commissioning evidence	Identity, gap, polarity, response and alarm diagnostics recorded

INSTALLATION AND CONNECTION CHECKS

1. Confirm the complete TA25DU-M marking and controlled maintenance record before work.
2. Place the documented ABB contactor and motor feeder and associated machine or process in the approved maintenance state.
3. Isolate the documented power, signal and protection circuits before disconnecting TA25DU-M.
4. Record the installed position, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, polarity, shielding and grounding.

Technical Specifications

Technical values below are limited to the named product record and directly applicable manufacturer documentation.

PARAMETER	VALUE
Type	TA25DU-M
Rated operational voltage	690 V AC
Frequency	DC or 50/60 Hz; 0 to 400 Hz range
Trip class	10A
Poles	3
Auxiliary contacts	1 NO + 1 NC

PARAMETER	VALUE
Phase-loss sensitive	Yes
Housing protection	IP20
Operating temperature	-25 to +55 deg C
Country of origin	Sweden
HS code	8537101190

ENGINEERING BOUNDARY

Confirm TA25DU-M, documented ABB contactor and motor feeder, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

PRE-INSTALLATION CHECKS

1. Confirm the complete TA25DU-M marking and controlled maintenance record before work.
2. Place the documented ABB contactor and motor feeder and associated machine or process in the approved maintenance state.
3. Isolate the documented power, signal and protection circuits before disconnecting TA25DU-M.
4. Record the installed position, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, polarity, shielding and

Applications and Engineering Context

Motor feeder protection

Trips the documented contactor control circuit on overload.

Phase-loss protection

Protects a three-phase motor feeder from abnormal current balance.

Control-panel maintenance

Restores the exact auxiliary-contact and current-setting record.

Trip-function verification

Supports controlled reset, test and contact-response checks.

TECHNICAL NOTE

Confirm TA25DU-M, documented ABB contactor and motor feeder, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence before commissioning.

MODEL-SPECIFIC ACCEPTANCE EVIDENCE

CHECK	ACCEPTANCE CONDITION
Identity	TA25DU-M recorded
Host / carrier	ABB TA25DU motor protection
Physical interface	three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls matched
Configuration	Exact installed configuration and assignments restored
Functional proof	Controlled motor overload and phase-loss protection response recorded

IMPORTANT NOTICE

Confirm TA25DU-M, documented ABB contactor and motor feeder, three main poles, 95-96 NC contact, 97-98 NO contact and reset/test controls, installed position, polarity, shielding, grounding, configuration, diagnostics and controlled functional-test evidence

Related Products and Source Record

Brand-qualified Apter Power navigation links are provided for system planning only; manufacturer evidence remains the named source record.

RELATED PRODUCTS ON APTER POWER	
01	Bently Nevada 330101-00-24-10-12-05
02	Bently Nevada 330710-000-050-50-02-00
03	Bently Nevada 330880-28-00-085-03-02
04	Bently Nevada 330130-070-11-05
05	Bently Nevada 330130-075-11-05
06	Bently Nevada 330130-080-11-05
07	Bently Nevada 330101-00-10-15-02-05
08	Bently Nevada 330101-00-44-15-02-05

Navigation links only - not manufacturer evidence for technical parameters.

MANUFACTURER SOURCE RECORD

TA25DU-M Thermal Overload Relays Technical Data | ABB motor protection and control catalog 1SBC100179C0201

APTER POWER SALES TEAM

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