

Installation Identity and Scope

ABB PCU-03 is a purge controller module, part E-31978, used in the Trallfa TR-5000 control family. Its front-panel controls provide purge-time setting, reset and status indication.

INSTALLATION IDENTITY	REQUIRED VALUE
Complete model	PCU-03
Manufacturer	ABB
Hardware role	Purge Controller Module
System family	Trallfa TR-5000

Controlled engineering copy

Confirm PCU-03 and E-31978 on the installed module. Record the purge-time settings and all interface connections before replacement.

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PCU-03

Pre-Installation Plan

NO.	REQUIRED ACTION
1	Verify the complete ABB PCU-03 and E-31978 marking before work.
2	Record the 100-second, 10-second and 1-second dial settings.
3	Record every connector and interlock associated with the purge sequence.
4	Place the controlled process in the approved safe state before module removal.
5	Do not bypass purge or fault interlocks during replacement.
6	Use ESD controls and inspect the mating connector before installation.
7	Confirm all four status indicators operate as expected after installation.
8	Complete the approved purge-sequence and fault-response test before release.

Before Energization

CONTROL	REQUIRED RECORD
Identity	Complete PCU-03 marking and hardware role
Connections	Approved power, grounding and protocol interfaces
Configuration	Controlled backup, addressing and protocol files
Test plan	Defined acceptance values and controlled restart authority

Related Products

MODEL	APTER POWER PAGE
ABB RDIO-01 64379216D	View ABB RDIO-01 64379216D
ABB RCNA-01	View ABB RCNA-01
ABB PM564-RP-ETH-AC 1SAP121100R0071	View ABB PM564-RP-ETH-AC 1SAP121100R0071

Release hold point

Do not disturb the installed device until exact marking, interfaces, companion hardware and configured function are documented.

Wiring, Network and Configuration Checks

CHECK	MODEL-SPECIFIC REQUIREMENT
Product type	Purge controller module
System family	Trallfa TR-5000
Purge-time controls	100 s, 10 s and 1 s setting dials
Status indicators	Power, Purged, Purging and Fault
Operator control	Reset button

Configuration boundary

Confirm PCU-03 and E-31978 on the installed module. Record the purge-time settings and all interface connections before replacement.

Expected Technical Values

PARAMETER	VALUE
Product identity	PCU-03
Part number	E-31978
Product type	Purge controller module
System family	Trallfa TR-5000

Related Products

MODEL	APTER POWER PAGE
ABB UNS0885A-Z V1 3BHB006943R0001	View ABB UNS0885A-Z V1 3BHB006943R0001
ABB TK850V007	View ABB TK850V007
ABB ICMK14F1 1SBP260050R1001	View ABB ICMK14F1 1SBP260050R1001

Commissioning and Acceptance

TEST	ACCEPTANCE CONDITION
Identity	Manufacturer and complete PCU-03 marking match the record.
Power	Measured supply agrees with the documented operating requirement.
Interface	Connectors, addressing and network parameters match the approved project.
Configuration	Protocol files, framing and mapped data areas match the controlled backup.
Diagnostics	No unexplained status, counter or communication fault remains.
Functional proof	Controlled bidirectional data transfer completes successfully.
Release	Final values and test results are retained with restart approval.

Questions to Resolve

QUESTION	ENGINEERING ANSWER
What is ABB PCU-03?	ABB PCU-03 is a purge controller module, part E-31978, used in the Trallfa TR-5000 family.
Which system uses ABB PCU-03?	The exact module is associated with the Trallfa TR-5000 control family.

Related Products

MODEL	APTER POWER PAGE
ABB PM564-RP-ETH-AC 1SAP121100R0071	View ABB PM564-RP-ETH-AC 1SAP121100R0071
ABB UNS0885A-Z V1 3BHB006943R0001	View ABB UNS0885A-Z V1 3BHB006943R0001
ABB TK850V007	View ABB TK850V007
ABB ICMK14F1 1SBP260050R1001	View ABB ICMK14F1 1SBP260050R1001
ABB HESG324063R100 HESG216882	View ABB HESG324063R100 HESG216882

Source, Related Products and Release

MODEL	APTER POWER PAGE
ABB PM511V08 3BSE011180R1	View ABB PM511V08 3BSE011180R1
ABB SPBRC410 BRC410	View ABB SPBRC410 BRC410
ABB IMDSO14	View ABB IMDSO14
ABB RDIO-01 64379216D	View ABB RDIO-01 64379216D
ABB RCNA-01	View ABB RCNA-01

MANUFACTURER SOURCE RECORDS

1. ABB Symphony Plus HR Series Control and I/O Overview
2. Artisan Technology Group ABB PCU-03 E-31978 Product Record

Controlled Release Summary

RELEASE ITEM	REQUIRED EVIDENCE
Identity	PCU-03 recorded
Interface	Connections and companion hardware verified
Configuration	Installed values agree with approved record
Functional proof	Controlled test completed without unexplained fault

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