

PCU-03

Purge Controller Module

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.

IDENTITY	VERIFIED VALUE
Manufacturer	ABB
Complete model	PCU-03
Product role	Purge Controller Module
System family	Trallfa TR-5000

Document scope

Exact identity, verified technical data, applications, precautions, model-specific FAQ and controlled acceptance records.

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PCU-03

Technical Specifications

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

PARAMETER	VERIFIED VALUE
Purge-time controls	100 s, 10 s and 1 s setting dials
Status indicators	Power, Purged, Purging and Fault
Operator control	Reset button

Engineering boundary

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

Identity Acceptance

CONTROL	VERIFIED 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 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

Functions and Applications

Adjustable purge timing Uses separate 100-second, 10-second and 1-second setting dials.	Four-state indication Shows Power, Purged, Purging and Fault status.
Local reset Provides a front-panel reset control for the documented purge-controller role.	TR-5000 integration Matches the control-module function used in the Trallfa TR-5000 family.

Common Applications

APPLICATION	ENGINEERING CONTEXT
Robot paint-system purge control	Controls the documented purge sequence in a compatible Trallfa installation.
Purge-time configuration	Sets the required purge interval through the three front-panel time controls.
Status monitoring	Provides local indication of power, purging, purged and fault states.
Legacy controller maintenance	Supports exact PCU-03 replacement in the documented TR-5000 arrangement.

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

Controlled acceptance duty

Confirm identity, interfaces, configured values and functional response against the installed-system record before release.

Engineering Precautions

NO.	PRECAUTION
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.

Model-Specific FAQ - Part 1

QUESTION	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.
Which purge-time controls are on ABB PCU-03?	The module provides 100-second, 10-second and 1-second setting dials.
Which indicators are on ABB PCU-03?	The documented indicators are Power, Purged, Purging and Fault.

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
ABB UNS0885A-Z V1 3BHB006943R0001	View ABB UNS0885A-Z V1 3BHB006943R0001
ABB TK850V007	View ABB TK850V007

Model-Specific FAQ - Part 2

QUESTION	ANSWER
Does ABB PCU-03 have a reset control?	Yes. The front panel includes a reset button.
What must be recorded before removing ABB PCU-03?	Record E-31978, every connector, the three dial settings and the current purge-system state.
Can ABB PCU-03 purge interlocks be bypassed during replacement?	No. Maintain the approved safety and purge interlock procedure.
What confirms ABB PCU-03 commissioning?	The set time, status indications, fault response and complete purge sequence must pass the approved test.

Related Products and Release

MODEL	APTER POWER PAGE
ABB ICMK14F1 1SBP260050R1001	View ABB ICMK14F1 1SBP260050R1001
ABB HESG324063R100 HESG216882	View ABB HESG324063R100 HESG216882
ABB PM511V08 3BSE011180R1	View ABB PM511V08 3BSE011180R1
ABB SPBRC410 BRC410	View ABB SPBRC410 BRC410
ABB IMDSO14	View ABB IMDSO14

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

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