

KJ2005X1-SQ1 12P6383X052

DeltaV SQ Controller

Emerson KJ2005X1-SQ1 12P6383X052 is a DeltaV SQ controller assembly. It executes scheduled control strategies and coordinates the installed DeltaV I/O and control-network paths.

IDENTITY	VERIFIED VALUE
Manufacturer	Emerson
System family	Emerson DeltaV S-series controller system
Part number	KJ2005X1-SQ1 12P6383X052
Product role	Executes scheduled DeltaV control strategies
Lifecycle	Installed product record

DOCUMENT SCOPE

Exact-article identity, technical data, host role, installation checks, applications, precautions and engineering verification.

MODEL-SPECIFIC ENGINEERING NOTE

Mount KJ2005X1-SQ1 12P6383X052 on the documented S-series power/controller carrier with its dedicated supply and record both control-network paths before removal. Restore the approved project, software and I/O topology, then verify diagnostics and controlled redundancy transfer where configured.

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



KJ2005X1-SQ1
12P6383X052

Technical Specifications

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

PARAMETER	VALUE	PARAMETER	VALUE
Controller type	SQ	DST limit	750
DeltaV model	SE3008	SCADA tags	3200
User memory	48 MB	Network ports	Primary and secondary RJ45

Verified Product Record

DATA GROUP	VERIFIED VALUE
Installed host / carrier	Emerson DeltaV S-series controller system
Primary system role	Executes scheduled DeltaV control strategies
Connection boundary	Mount KJ2005X1-SQ1 12P6383X052 on the documented S-series power/controller carrier with its dedicated supply and record both control-network paths before removal. Restore the approved project, software and I/O topology, then verify diagnostics and controlled redundancy transfer where configured.
Controlled acceptance duty	Process-unit regulatory control

ENGINEERING BOUNDARY

Confirm Emerson KJ2005X1-SQ1 12P6383X052, SQ model SE3008, carrier, dedicated supply, both RJ45 paths, DeltaV software, project, I/O topology, redundancy license, grounding and diagnostics before commissioning.

Pre-Installation Checks

1	Confirm Emerson KJ2005X1-SQ1 12P6383X052 and SQ model SE3008.	2	Place the controlled process and final elements in the approved maintenance state.
3	Isolate the dedicated controller supply and apply ESD controls.	4	Record the carrier position, primary and secondary RJ45 paths and all assigned I/O nodes.

Documented Service Record

RECORD ITEM	REQUIRED ENTRY
As-found article	KJ2005X1-SQ1 12P6383X052
Installed host	Emerson DeltaV S-series controller system
Connection record	Capture before removal
Controlled release	Diagnostics and functional proof

System Role and Architecture

Emerson KJ2005X1-SQ1 12P6383X052 is a DeltaV SQ controller assembly. It executes scheduled control strategies and coordinates the installed DeltaV I/O and control-network paths.

FUNCTION 1
Executes scheduled DeltaV control strategies

FUNCTION 2
Coordinates traditional, CHARM and WirelessHART I/O

FUNCTION 3
Provides primary and secondary control-network paths

FUNCTION 4
Supports simplex or one-to-one redundant operation

Matched System Components

NO.	DOCUMENTED COMPONENT / ROLE
1	Emerson DeltaV S-series controller system
2	SE3008
3	Process-unit regulatory control
4	Mount KJ2005X1-SQ1 12P6383X052 on the documented S-series power/controller carrier with its dedicated supply and record both control-network paths before removal. Restore the approved project, software and I/O topology, then verify diagnostics and controlled redundancy transfer where configured.

System Integration Record

INTEGRATION ITEM	DOCUMENTED ROLE
Host identity	Emerson DeltaV S-series controller system
Interface role	Executes scheduled DeltaV control strategies
Field / power context	The SQ controller uses the documented S-series carrier, dedicated power and DeltaV project. Commissioning confirms hardware identity, primary and secondary networks, I/O topology, software compatibility and redundancy state.
Commissioning evidence	Complete controlled strategy, I/O and redundancy tests before process release.

Installation and Connection Checks

- 1

Confirm the S-series carrier, dedicated supply and approved DeltaV software version.
- 2

Restore the validated project, controller assignment and I/O topology.
- 3

Review controller, network, I/O and redundancy diagnostics after startup.
- 4

Complete controlled strategy, I/O and redundancy tests before process release.

MANUFACTURER SOURCE RECORD

DeltaV SQ Controller Product Data Sheet
Emerson, January 2026

Applications and Engineering Context

Process-unit regulatory control

Executes scheduled loops and calculations for a DeltaV process area.

Sequence and interlock execution

Coordinates equipment logic with the documented I/O topology.

CHARM I/O integration

Processes electronic-marshalling signals through the approved controller project.

Redundant controller service

Supports controlled primary-to-standby verification where licensed.

TECHNICAL NOTE

Mount KJ2005X1-SQ1 12P6383X052 on the documented S-series power/controller carrier with its dedicated supply and record both control-network paths before removal. Restore the approved project, software and I/O topology, then verify diagnostics and controlled redundancy transfer where configured.

Model-Specific Acceptance Evidence

CHECK	ACCEPTANCE CONDITION
Identity	KJ2005X1-SQ1 12P6383X052 recorded
Host / carrier	Emerson DeltaV S-series controller system
Physical interface	Executes scheduled DeltaV control strategies
Configuration	Review controller, network, I/O and redundancy diagnostics after startup.
Functional proof	Complete controlled strategy, I/O and redundancy tests before process release.

IMPORTANT NOTICE

Confirm Emerson KJ2005X1-SQ1 12P6383X052, SQ model SE3008, carrier, dedicated supply, both RJ45 paths, DeltaV software, project, I/O topology, redundancy license, grounding and diagnostics before commissioning.

Controlled Release Summary

RELEASE ITEM	MODEL-SPECIFIC CONDITION
Article identity	KJ2005X1-SQ1 12P6383X052
Approved role	Process-unit regulatory control
Final validation	Complete controlled strategy, I/O and redundancy tests before process release.

Engineering Precautions

1	Confirm Emerson KJ2005X1-SQ1 12P6383X052 and SQ model SE3008.	2	Place the controlled process and final elements in the approved maintenance state.
3	Isolate the dedicated controller supply and apply ESD controls.	4	Record the carrier position, primary and secondary RJ45 paths and all assigned I/O nodes.
5	Confirm the S-series carrier, dedicated supply and approved DeltaV software version.	6	Restore the validated project, controller assignment and I/O topology.
7	Review controller, network, I/O and redundancy diagnostics after startup.	8	Complete controlled strategy, I/O and redundancy tests before process release.

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson KJ3224X1-BA2-13P0137X022	Related Apter Power product	View Emerson KJ3224X1-BA2-13P0137X022 page
Emerson EZ1900-003-ADAP-1	Related Apter Power product	View Emerson EZ1900-003-ADAP-1 page
Emerson EZ1081-07-00-010-EZ1901-090	Related Apter Power product	View Emerson EZ1081-07-00-010-EZ1901-090 page
Emerson EZ1081-03-00-010-EZ1901-090	Related Apter Power product	View Emerson EZ1081-03-00-010-EZ1901-090 page
Emerson EZ1081-04-00-010-EZ1901-040	Related Apter Power product	View Emerson EZ1081-04-00-010-EZ1901-040 page
Emerson A6371-10	Related Apter Power product	View Emerson A6371-10 page
Emerson A6370D	Related Apter Power product	View Emerson A6370D page
Emerson A6312	Related Apter Power product	View Emerson A6312 page

MANUFACTURER SOURCE RECORD

DeltaV SQ Controller Product Data Sheet
Emerson, January 2026

APTER POWER SALES TEAM

WHATSAPP / PHONE +86 180 3023 5313
EMAIL sales13@apterpower.com
WEBSITE www.apterpower.com



KJ2005X1-SQ1
12P6383X052