

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.

BRAND	Emerson	FAMILY	Emerson DeltaV S-series controller system
PART	KJ2005X1-SQ1 12P6383X052	SYSTEM ROLE	Executes scheduled DeltaV control strategies

APTER POWER SALES
TEAM

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



KJ2005X1-SQ1
12P6383X052

MANUFACTURER SOURCE RECORD

DeltaV SQ Controller Product Data Sheet
Emerson, January 2026

Product Overview

SYSTEM FUNCTION

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

System Components

COMPONENT	DOCUMENTED ROLE
Host / carrier	Emerson DeltaV S-series controller system
Primary interface	Executes scheduled DeltaV control strategies
Engineering 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 duty	Complete controlled strategy, I/O and redundancy tests before process release.

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.

Technical Data

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

Related Products on Apter Power

MODEL	SYSTEM ROLE	APTER POWER PAGE
Emerson PR6423-10R-010	Related Apter Power product	View Emerson PR6423-10R-010 page
Emerson PR6422-013-041	Related Apter Power product	View Emerson PR6422-013-041 page
Emerson PR6423-010-000	Related Apter Power product	View Emerson PR6423-010-000 page
Emerson CON041	Related Apter Power product	View Emerson CON041 page
Emerson PR9268-202-100	Related Apter Power product	View Emerson PR9268-202-100 page
Emerson PR6424-003-030	Related Apter Power product	View Emerson PR6424-003-030 page
Emerson PR9268-302-100	Related Apter Power product	View Emerson PR9268-302-100 page
Emerson PR9268-301-100	Related Apter Power product	View Emerson PR9268-301-100 page

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.

Applications and Precautions

Common Applications

Process-unit regulatory control

Executes scheduled loops and calculations for a DeltaV process area.

CHARM I/O integration

Processes electronic-marshalling signals through the approved controller project.

Sequence and interlock execution

Coordinates equipment logic with the documented I/O topology.

Redundant controller service

Supports controlled primary-to-standby verification where licensed.

Product 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.

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.

ACCEPTANCE CHECK	REQUIRED EVIDENCE
Identity	KJ2005X1-SQ1 12P6383X052
Configuration	Review controller, network, I/O and redundancy diagnostics after startup.
Functional release	Complete controlled strategy, I/O and redundancy tests before process release.

Engineer FAQ

Q1 How should carrier and power be verified for Emerson KJ2005X1-SQ1 12P6383X052?

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.

Q3 What must be preserved for controller memory when servicing Emerson KJ2005X1-SQ1 12P6383X052?

Record the carrier position, primary and secondary RJ45 paths and all assigned I/O nodes.

Q5 What official check applies to software version for Emerson KJ2005X1-SQ1 12P6383X052?

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

Q7 Which diagnostic confirms diagnostic restart for Emerson KJ2005X1-SQ1 12P6383X052?

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

Q2 Which record controls RJ45 networks on Emerson KJ2005X1-SQ1 12P6383X052?

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.

Q4 How is I/O topology isolated before work on Emerson KJ2005X1-SQ1 12P6383X052?

Place the controlled process and final elements in the approved maintenance state. Isolate the dedicated controller supply and apply ESD controls.

Q6 How is redundancy pairing restored after fitting Emerson KJ2005X1-SQ1 12P6383X052?

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

Q8 What proves project evidence is accepted for Emerson KJ2005X1-SQ1 12P6383X052?

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

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