

80026-044-06-R

IGDPS 56 V DC / 20 V DC

INSTALLATION, INTERFACE AND VALIDATION WORKBOOK

Allen-Bradley 80026-044-06-R is the exact manufacturer-listed igdps 56 v dc / 20 v dc for the documented installed system.

STEP	GATE	ENGINEERING PURPOSE
01	IDENTIFY	Confirm article, host and hardware
02	ISOLATE	Secure power and stored energy
03	CONNECT	Restore documented interfaces
04	VALIDATE	Prove diagnostics and function

WORKBOOK PURPOSE

Field-ready identity, isolation, connection, commissioning and closeout records for this exact Allen-Bradley article.

APTER POWER SALES TEAM

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



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Installation Readiness Gate

Complete the identity, host-system and isolation checks before disturbing the installed hardware.

- 1

Confirm Allen-Bradley 80026-044-06-R and the 56 V DC / 20 V DC marking.
- 2

Isolate the drive and prove all stored energy discharged.
- 3

Use ESD controls and protect the IGDPS connectors.
- 4

Record input, output and gate-driver connections before removal.

Pre-Work Evidence

EVIDENCE ITEM	RECORDED VALUE
Complete article marking	80026-044-06-R
Host / carrier	Allen-Bradley PowerFlex 7000
Primary system role	Accepts the documented 56 V DC input
Acceptance boundary	Verify supply values and drive diagnostics before release.
Source record	PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide

WORK AUTHORIZATION RECORD

Work order: _____

Drawing / revision: _____

Checked by: _____

Date: _____

Isolation and Access Register

CONTROL POINT	ENGINEER RECORD
Incoming supply	Isolated / proved
Stored energy	Discharged / proved
Field connections	Identified / protected
ESD control	Established / recorded

Pre-Work Documentation

DOCUMENT	ENGINEER RECORD
Connection photograph	Reference / file
Configuration backup	Reference / revision
Diagnostic baseline	Reference / result

Connection and Installation Sequence

INSTALLATION PRINCIPLE

Install the IGDPS only in the matching PowerFlex 7000 position. Record the original connector routing and supply relationships, inspect the associated gate-driver circuit and verify power-supply diagnostics before enabling the converter.

- 1

Inspect adjacent wiring and the installed supply position.
- 2

Reconnect only to the documented 56 V DC and 20 V DC paths.
- 3

Energize through the approved PowerFlex 7000 sequence.
- 4

Verify supply values and drive diagnostics before release.

Connection Record

CONNECTION GROUP	AS-FOUND / AS-LEFT RECORD	STATUS
Power / field connection	Reference / terminal	Checked
Signal / interface	Reference / connector	Checked
Ground / shield	Reference / point	Checked
Accessory / carrier	Reference / part	Checked

MODEL-SPECIFIC RELEASE LIMIT

Confirm Allen-Bradley 80026-044-06-R, the complete PowerFlex 7000 or MV SMC Flex host identity, installed hardware execution, board or semiconductor position, connectors, wiring, grounding, cooling path, firmware or configuration where applicable, companion components and controlled commissioning results before service.

Interface Acceptance Criteria

ACCEPTANCE ITEM	REQUIRED EVIDENCE
Identity	80026-044-06-R
Host match	Allen-Bradley PowerFlex 7000
Connection proof	Reconnect only to the documented 56 V DC and 20 V DC paths.
Configuration proof	Energize through the approved PowerFlex 7000 sequence.

Commissioning and Acceptance Record

Record each controlled verification step before the equipment returns to automatic operation.

NO.	ACCEPTANCE CHECK	RESULT	RECORD
1	Article and host identity	PASS / FAIL	Initial / date
2	Mechanical installation	PASS / FAIL	Initial / date
3	Power and field wiring	PASS / FAIL	Initial / date
4	Grounding and shielding	PASS / FAIL	Initial / date
5	Configuration restoration	PASS / FAIL	Initial / date
6	Signal or power-path response	PASS / FAIL	Initial / date
7	Diagnostics and alarms	PASS / FAIL	Initial / date
8	Final functional release	PASS / FAIL	Initial / date

Engineering Notes

RECORD AREA	ENGINEER ENTRY
As-found condition	
Corrective action	
As-left configuration	
Outstanding restriction	
Release authorization	

CONTROLLED COMMISSIONING

Verify supply values and drive diagnostics before release.

Diagnostics and Release Log

EVENT	ENGINEERING RECORD
Initial energization	Result / observation
Interface or signal response	Result / observation
Alarm and diagnostic review	Result / observation
Functional release	Name / date

ACCEPTANCE AND RELEASE EVIDENCE

PowerFlex 7000 gate-driver supply service

Restores the documented 56 V DC to 20 V DC isolated supply function.

Power-stack maintenance

Supports controlled inspection of the gate-driver power path.

Drive repair verification

Enables voltage and diagnostic checks before converter operation.

Planned spare replacement

Keeps the exact PowerFlex 7000 power-supply article identity.

Maintenance Verification and Closeout

PowerFlex 7000 gate-driver supply service

Restores the documented 56 V DC to 20 V DC isolated supply function.

Power-stack maintenance

Supports controlled inspection of the gate-driver power path.

Drive repair verification

Enables voltage and diagnostic checks before converter operation.

Planned spare replacement

Keeps the exact PowerFlex 7000 power-supply article identity.

Related Engineering Pages

MODEL	ENGINEERING ROLE	APTER POWER PAGE
Allen-Bradley 2711P-RN15S	Allen-Bradley product	View Allen-Bradley 2711P-RN15S page
Allen-Bradley MMC-BDP081PNA	Allen-Bradley product	View Allen-Bradley MMC-BDP081PNA page
Allen-Bradley 80026-518-01-R	Allen-Bradley product	View Allen-Bradley 80026-518-01-R page
Allen-Bradley 2707-L40P2	Allen-Bradley product	View Allen-Bradley 2707-L40P2 page
Allen-Bradley 2098-DSD-020X	Allen-Bradley product	View Allen-Bradley 2098-DSD-020X page
Allen-Bradley 1785-BCM	Allen-Bradley product	View Allen-Bradley 1785-BCM page
Allen-Bradley 1784-PCMK	Allen-Bradley product	View Allen-Bradley 1784-PCMK page
Allen-Bradley 1784-PCIS	Allen-Bradley product	View Allen-Bradley 1784-PCIS page

MANUFACTURER SOURCE RECORD

PowerFlex 7000 Medium Voltage AC Drives Troubleshooting Guide
7000-TG002L-EN-P, February 2020

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