

Addendum to FlexPak 3000 DC Drives Hardware Reference, Installation, and Troubleshooting Version 4.1

Recommended Parts for Integrator Drives

**M/N 3FN7741, 3FR7741, 7FR7741, 10FN7741, 10FR7741,
15FN7741, 15FR7741, 20FN7741, 20R7741, 30FN7741,
30FR7741, 60FN7741, 60FR7741, 150FN7742, 150FR7742**

Instruction Manual D2-3472

This addendum replaces the information in Appendix C of the FlexPak 3000 DC Drives Hardware Reference (D2-3404).

Table 1 lists the recommended parts that must be provided by the user and can be mounted separately at the time of installation. These recommended parts or an equivalent are necessary for the proper operation and functionality of the Integrator drive. Section 2.5 of the FlexPak 3000 DC Drives Hardware Reference (D2-3404) details how to electrically connect these recommended parts for proper drive operation.

Part Description	Qty	Reliance Part Number	Rating
AC Line Fuse (1FU, 2FU, 3FU)¹:			
1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 460 VAC	3	64676-120AMX	40A, 500V
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 460 VAC	3	64676-120ARX	80A, 500V
15 HP @ 230 VAC/30 HP @ 460 VAC	3	64676-120ASX	90A, 500V
20 thru 30 HP @ 230 VAC/40 thru 60 HP @ 460 VAC	3	64676-120AVX	150A, 500V
75 HP @ 230 VAC/150 HP @ 460 VAC	3	64676-120BAX	350A, 500V
Field Fuse (6FU, 7FU, 8FU):			
1.5 thru 30 HP @ 230 VAC/3 thru 60 HP @ 460 VAC	3	64676-30K	15A, 600V
75 HP @ 230 VAC/150 HP @ 460 VAC	3	64676-30M	25A, 500V
“FN” Contactor:			
1.5 thru 5 HP @ 230 VAC/3 thru 10 HP @ 460 VAC	1	100-C12D10	600V, 22A
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 460 VAC	1	100-C30D10	600V, 22A
15 thru 30 HP @ 230 VAC/25 thru 60 HP @ 460 VAC	1	100-C85D10	600V, 35A
40 HP @ 230 VAC/75 HP @ 460 VAC	1	705310-68A	600V, 80A
50 HP @ 230 VAC/100 HP @ 460 VAC	1	705310-70A	600V, 80A
60 HP @ 230 VAC/125 HP @ 460 VAC	1	705310-70A	600V, 100A
75 HP @ 230 VAC/150 HP @ 460 VAC	1	705310-70A	600V, 225A
AC Line Disconnect²:			
1.5 thru 25 HP @ 230 VAC/3 thru 50 HP @ 460 VAC	1	65242-100NSX	600V, 100A
30 HP @ 230 VAC/60 HP @ 460 VAC	1	65242-100SSX	600V, 150A
75 HP @ 230 VAC/150 HP @ 460 VAC	1	65242-300FSX	600V, 400A

Part Description	Qty	Reliance Part Number	Rating
Inverting Fault Breaker:			
1.5 thru 2 HP @ 230 VAC/3 thru 5 HP @ 460 VAC ³	1	77801-18DXA Set at A	40A, 600V
3 thru 5 HP @ 230 VAC/7.5 thru 10 HP @ 460 VAC	1	419035-100DSA Set at L	50A, 600V
7.5 thru 10 HP @ 230 VAC/15 thru 20 HP @ 460 VAC	1	419035-100HSA Set at 2	90A, 600V
15 thru 20 HP @ 230 VAC/25 thru 40 HP @ 460 VAC	1	419035-100NSA Set at L	150A, 600V
25 thru 30 HP @ 230 VAC/50 thru 60 HP @ 460 VAC	1	419035-100SSA Set at L	450A, 600V
75 HP @ 230 VAC/150 HP @ 460 VAC	1	419035-300FSA Set at 2	625A, 600V
Armature Fuse (11FU, S6R ONLY)⁴:			
1.5 HP @ 230 VAC/3 HP @ 460 VAC	1	64676-130AGX	15A, 700V
2 HP @ 230 VAC/4 HP @ 460 VAC	1	64676-130AHX	20A, 700V
3 HP @ 230 VAC/6 HP @ 460 VAC	1	64676-130AJX	25A, 700V
5 HP @ 230 VAC/10 HP @ 460 VAC	1	64676-130ALX	35A, 700V
7.5 HP @ 230 VAC/15 HP @ 460 VAC	1	64676-130AMX	40A, 700V
10 HP @ 230 VAC/20 HP @ 460 VAC	1	64676-130ANX	50A, 700V
15 HP @ 230 VAC/30 HP @ 460 VAC	1	64676-130AQX	70A, 700V
20 thru 25 HP @ 230 VAC/40 thru 50 HP @ 460 VAC	1	64676-130AUX	125A, 700V
30 HP @ 230 VAC/60 HP @ 460 VAC	1	64676-130AVX	150A, 700V
75 HP @ 230 VAC/150 HP @ 460 VAC	1	64676-130BAX	350A, 700V

¹. Bussman series FWH or an equivalent part.

². Square D Frame F type for an equivalent part.

³. Westinghouse part number HMCP025DOC for an equivalent part.

⁴. Bussman series FWP or an equivalent part.

Wire Inverting Fault Protection to the Drive (S6R, Regenerative Drives Only)

The AFB terminal must be connected to the load (motor) side of the armature fuse or inverting fault breaker. Failure to do so will cause a drive fault condition. See figure 1 or 2.

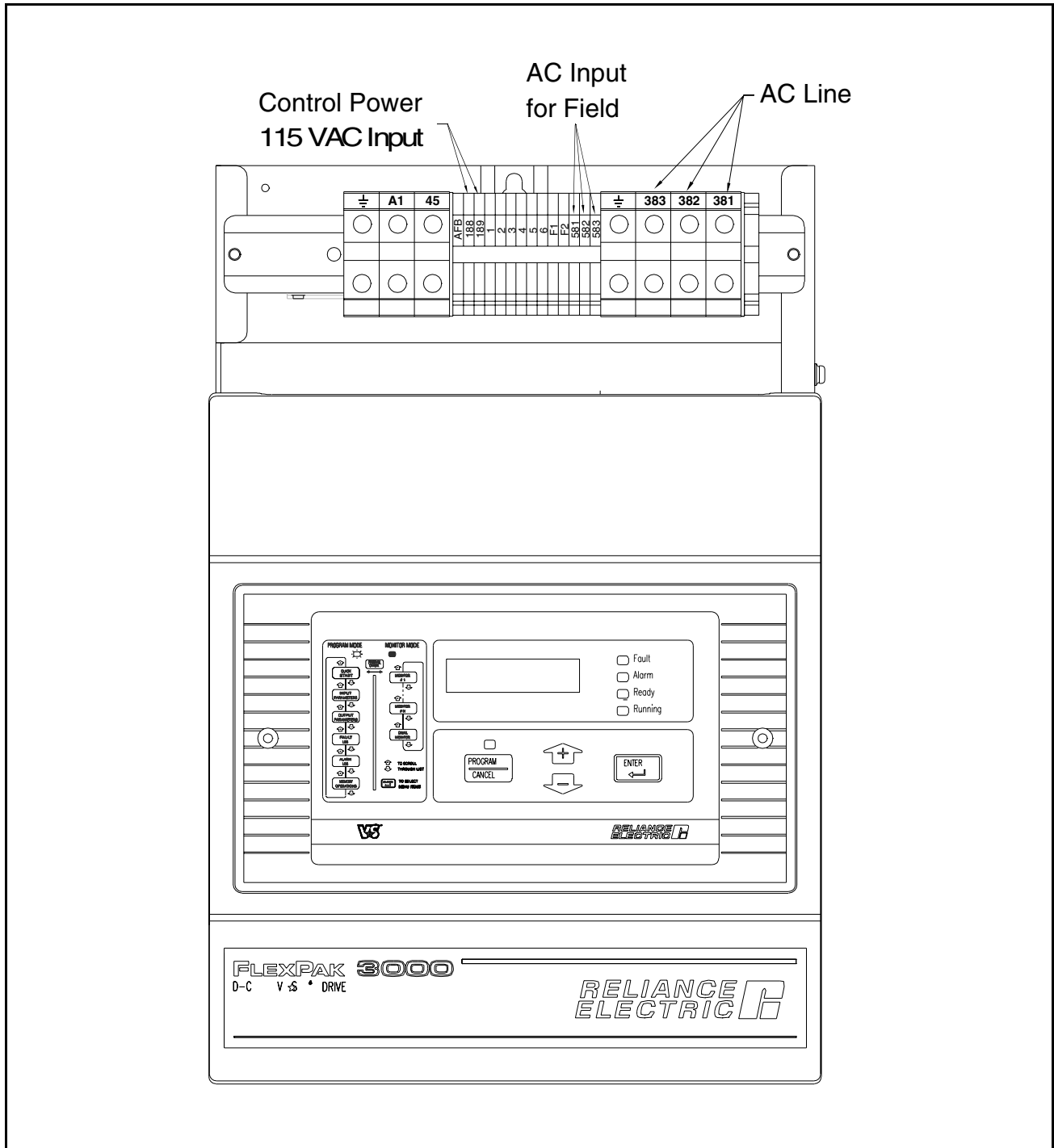


Figure 1 – Integrator Drive AC Line Connection Locations (1.5 to 30 HP @ 230 VAC / 3 to 60 HP @ 460

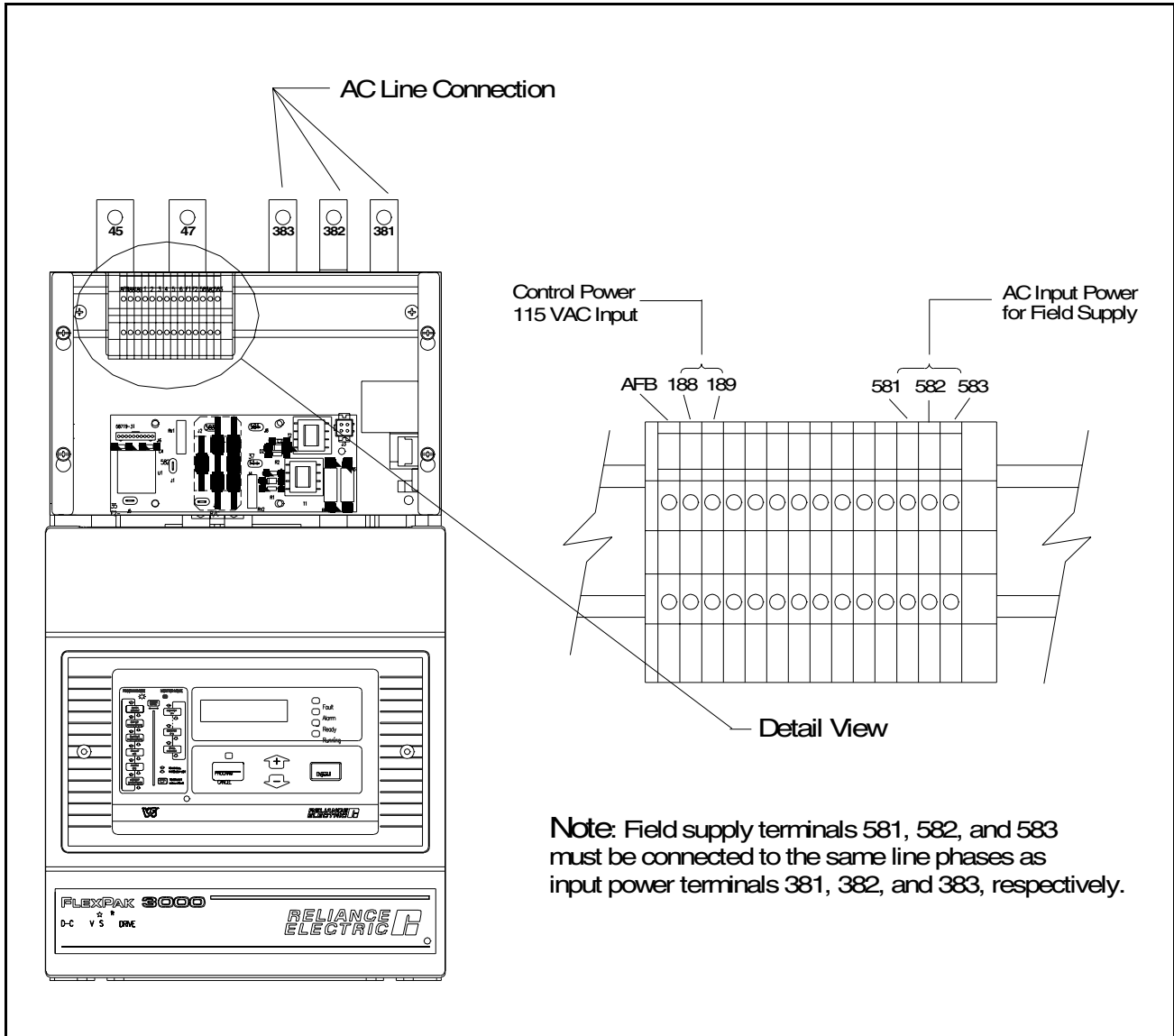


Figure 2 – Integrator Drive AC Line Connection Locations (40 to 75 HP @ 230 VAC / 75 to 150 HP @ 460 VAC)

B.6 Wire Control Power to the Drive

Connect the user supplied 115 VAC supply to terminals 188 and 189 of the controller's power terminal block. This 115 VAC supply must be rated at 150VA minimum for 150 HP @ 460 VAC and be sized to handle the maximum inrush of the drive FN contactor. The 189 terminal may be tied to protective earth ground if required. See figure 3.

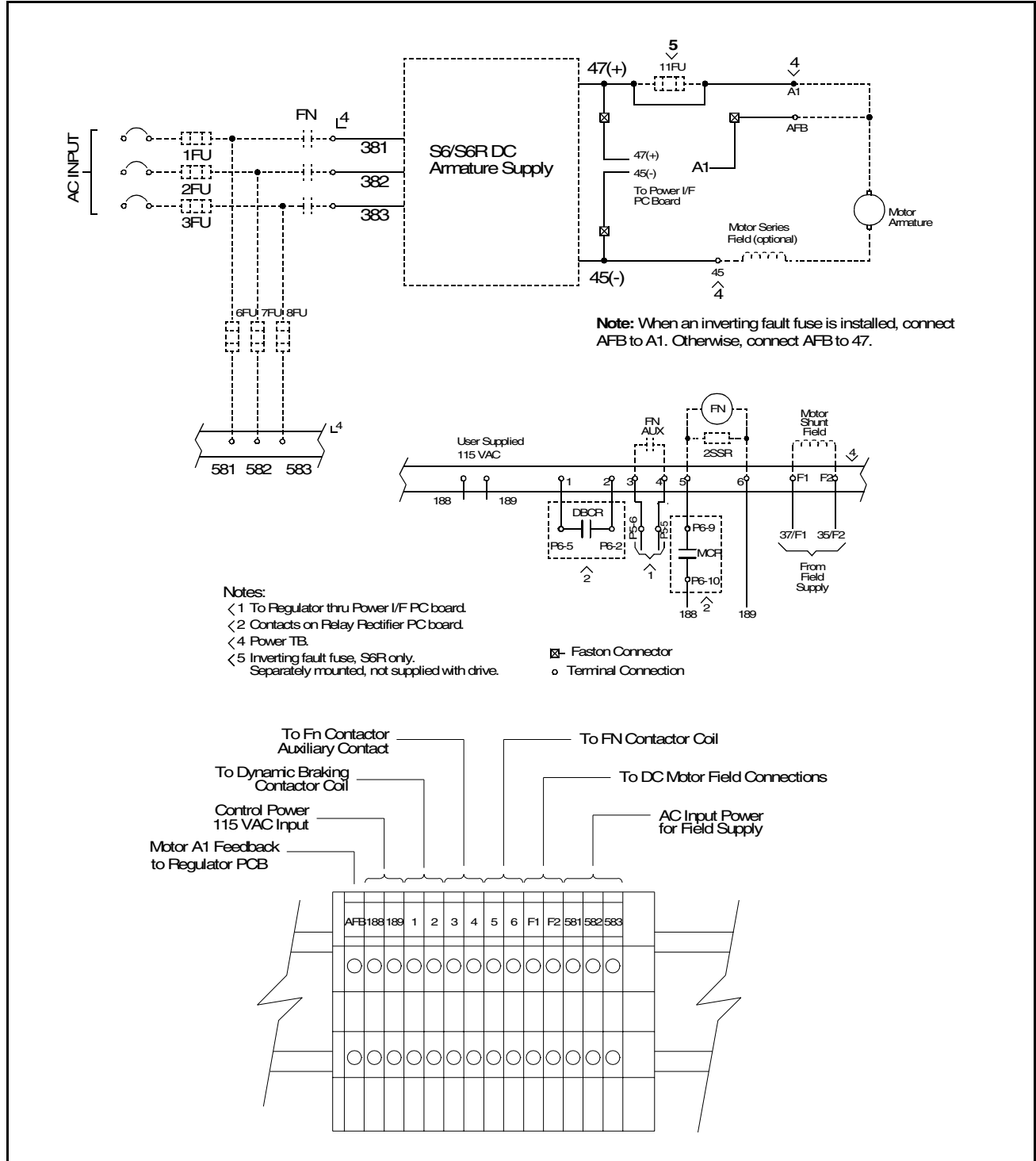


Figure 3 – Integrator Drive Wiring Diagram

Reach us now at www.rockwellautomation.com

Wherever you need us, Rockwell Automation brings together leading brands in industrial automation including Allen-Bradley controls, Reliance Electric power transmission products, Dodge mechanical power transmission components, and Rockwell Software. Rockwell Automation's unique, flexible approach to helping customers achieve a competitive advantage is supported by thousands of authorized partners, distributors and system integrators around the world.

Americas Headquarters, 1201 South Second Street, Milwaukee, WI 53204, USA, Tel: (1) 414 382 2000, Fax: (1) 414 392 4444
European Headquarters SA/NV, Boulevard du Souverain 36, 1170 Brussels, Belgium, Tel: (32) 2 663 06 00, Fax: (32) 2 663 06 40
Asia Pacific Headquarters, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846
Reliance Electric Standard Drives Business, 24800 Tungsten Road, Cleveland, OH 44117, USA, Tel: (1) 888 374 8370, Fax: (216) 266 7095



**Rockwell
Automation**