Allen-Bradley 1397 400-600HP AC Line Disconnects Cat. Nos. 1397-DS500 1397-DS600

What This Option Provides	When installed, the AC line disconnect is designed to provide branch circuit disconnect switch requirements.

Where This Option Is Used

Each DS500 or DS600 AC Line Disconnect is sized to a 1397 drive as detailed below.

	460VAC Drive	460VAC Drive Rating		
Catalog Number	HP	(kW)		
1397-DS500	400	298		
	500	373		
1397-DS600	600	448		

What This Kit Contains

Each 1397-DS500 AC Line **Disconnect includes:**

- (1) 800A Disconnect Switch
- (4) M8 \times 130 mm SHCS Bolts
- (4) M8 Split Lockwashers
- (12) 7/16 × 1" HHCS Bolts
- (12) 7/16" Split Lockwashers
- (12) 7/16" Flat Washers
- (3) Bus Bars
- (1) Spacer
- (1) Adapter
- (1) M5 × 20 mm Phillips Head Screw (1) M5 × 20 mm Phillips Head Screw
- (1) M5 Toothed Lockwasher
- (1) Plastic AC Line Input Cover

Each 1397-DS600 AC Line **Disconnect includes:**

- (1) 1000A Disconnect Switch
- (4) M8 × 130 mm SHCS Bolts
- (4) M8 Split Lockwashers
- (12) 7/16 × 1" HHCS Bolts
- (12) 7/16" Split Lockwashers
- (12) 7/16" Flat Washers
- (3) Bus Bars
- (1) Spacer
- (1) Adapter
- (1) M5 Toothed Lockwasher
- (1) Plastic AC Line Input Cover

What These Instructions Contain

These instructions and any accompanying instructions contain the necessary information to install a 1397 DS500 or DS600 AC Line Disconnect.



□ 5 (10) screws fasten the red insulating mounting panel to the metal frame of the drive. Remove and discard the second screw down from the right top. It will be replaced later with hardware included with the kit.



□ 8 Orient the adapter plate so that the wide tab with the hole is on the right as shown. Place the spacer over the adapter plate studs, then push the spacer and adapter plate flush against the back of the disconnect. The adapter plate mounting holes should go over the ends of the bolts inserted in **Step 7**.

□ 9 While holding the spacer and adapter plate in place, pick up the disconnect and position it over the threaded holes on the drive's mounting panel.



14 Replace the plastic line fuse cover removed in Step
1 and tighten the (2) screws at the bottom to secure it in place.

□ 15 Remove the disconnect's top lug cover by loosening the (2) captive cover screws. Install the AC line terminals removed in Step 3 onto the disconnect's line connections. Use (2) 7/16" flat washers, (2) split lockwashers & (2) 1" bolts for each AC line terminal. Tighten all bolts to 34Nm (300lb.-in.).



21 With the disconnect in the OFF position, remove the lockout and tag and restore incoming power to the drive. The motor should not be operating at this time.

Set the line disconnect switch to the ON position. To set the switch, first move it into position 0 (down) and then move it to position 1 (up). The drive should power up.

- Test the installation by setting the disconnect to OFF (position 0) and measuring the voltage at terminals 181, 182 and 183. All three terminals should be at OVAC, line-to-line and line-to-ground. If not, remove power to the drive and recheck all disconnect connections.
- Reset the disconnect switch by moving it to the ON position.

Rockwell Automation

Allen-Bradley

Rockwell Automation helps its customers receive a superior return on their investment by bringing together leading brands in industrial automation, creating a broad spectrum of easy-to-integrate products. These are supported by local technical resources available worldwide, a global network of system solutions providers, and the advanced technology resources of Rockwell.



Worldwide representation.

Argentina • Australia • Austria • Bahrain • Belgium • Bolivia • Brazil • Bulgaria • Canada • Chile • China, People's Republic of • Colombia • Costa Rica • Croatia • Cyprus Czech Republic • Denmark • Dominican Republic • Ecuador • Egypt • El Salvador • Finland • France • Germany • Ghana • Greece • Guatemala • Honduras • Hong Kong Hungary • Iceland • India • Indonesia • Iran • Ireland • Israel • Italy • Jamaica • Japan • Jordan • Korea • Kuwait • Lebanon • Macau • Malaysia • Malta • Mexico Morocco • The Netherlands • New Zealand • Nigeria • Norway • Oman • Pakistan • Panama • Peru • Philippines • Poland • Portugal • Puerto Rico • Qatar • Romania • Russia Saudi Arabia • Singapore • Slovakia • Slovenia • South Africa, Republic of • Spain • Sweden • Switzerland • Taiwan • Thailand • Trinidad • Tunisia • Turkey • United Arab Emirates United Kingdom • United States • Uruguay • Venezuela

Rockwell Automation Headquarters, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414 382-2000, Fax: (1) 414 382-4444