



Spectra Series™ Process Control Unit



- *Compact IEC-based design — extremely high density — up to 22 units in a single enclosure.*
- *Spectra Series uses patented stab-in technology, providing the highest degree of flexibility and maintainability.*
- *Available for motors up to 15 hp.*
- *Mounts to the universal Spectra interior — it can be mixed with circuit breakers, fusible switches, and TVSS modules.*
- *Superior Type 2 coordination — provides reliable equipment protection.*

The Spectra Series™ Process Control Unit (PCU) provides reliable motor control technology in a panelboard package. Using proven IEC components, the PCU is designed for applications where space and maintenance considerations are critical.

Because of its compact IEC-based design, the PCU is the smart solution for just about any small 4C motor application. When just a few starters are required, the PCUs can be placed in the same distribution panel with circuit breakers or fusible switches. This saves wall space and labor versus separately-mounted combination starter units. In those applications requiring a large number of motors, the PCU is again the best choice: Up to 22 units can be housed in a single enclosure. Since the units mount directly to the vertical bus of Spectra Series panelboards and switchboards using GE's patented

stab-in technology, the need for individual line side cable connections is eliminated, saving installation time and money. The PCU is available with or without pilot lights up to 15hp.

Ease of application and compact size does not mean reliability or maintainability need be sacrificed. Equipped with fast-acting Class J fuses, the unit provides Type 2 coordination, optimizing protection and reliability of both the motor in operation and the PCU itself. A complete line of replacement kits and renewal parts is also available.

Maximum reliability, compact size, Type 2 coordination, and easy installation — GE's Spectra PCU module is another integrated solution available with the GE Spectra Series panelboard and switchboard product line. For more details, contact your local GE ED&C distributor or sales office.

General Description

The Spectra Series™ PCU is an IEC-based combination starter suitable for mounting in any Spectra Series switchboard or panelboard. The PCU is composed of IEC-rated devices, including our new C-2000 starter — consisting of a CL25 contactor and a Class 10 overload relay — C-2000 push buttons, and a fusible disconnect. The unit attaches directly to the vertical bus using patented stab-in/stab-out connectors. Mounted in a Universal Spectra Series interior, the PCU can be mixed with circuit breakers, fusible switches, and TVSS units. Type 2 coordination is achieved through the use of Class J fuses. Pilot devices are optional.

Features

- Available from 1/4 hp to 15 hp max.
- Compact IEC components
- Integrally-fused main disconnect switch, UL 98 and UL 508 listed, short circuit withstand capabilities up to 100,000A
- Available in NEMA 1, 3R, 12, 4X (non-metallic)
- Furnished with a side-mounted auxiliary contact (1NO-1NC) standard
- Easy, quick installation — unit mounts directly to bus — can be mixed with GE circuit breakers, fusible switches, and TVSS units
- Replacement fuses, 30A, Class-J, time delay, cat. no. LPJ-30SP, available from Bussman
- Meets Type 2 coordination standards
- Available with or without pilot devices

General Specifications

Standards	UL 67 UL 508 IEC 947.4 (Type 2 coordination)
Environmental	Operating temperature: 0 - 40° C Operating altitude: 0 - 6,600 meters
Unit Configurations	1/4 to 15hp max. FVNR, single speed, one winding Voltages: 208, 240, 480, 575 Vac With or without pilot devices Control wiring quick disconnect standard No internal CPT
Available Enclosures	NEMA 1, 3R, 12, 4X (non-metallic)
Factory Available Pilot Device Package	1 each: green pilot light, red pilot light, H-O-A, CPT kit
Mounting	Stab-in/stab-out connectors attach to panelboard

Spectra Series PCU Selection Guide

Cat. Number	Description	Configuration	Pilot Device	Mount Single/Double
APCU151FNDPD	15hp max., 22A, 600V max.	3PH, 3W, & ground	Y	D
APCU151FNDPS	15hp max., 22A, 600V max.	3PH, 3W, & ground	Y	S
APCU151FNDND	15hp max., 22A, 600V max.	3PH, 3W, & ground	N	D
APCU151FNDNS	15hp max., 22A, 600V max.	3PH, 3W, & ground	N	S

Optional Kits

Kit type	Description
Spectra (Control Power Transformer) Kits	
APCUEKA200	Standard capacity, 600V, 0.2kVA
APCUEKA300	Extra capacity, 600V, 0.3 kVA
APCUEKB200	Standard capacity, 480/240V, 0.2kVA
APCUEKB300	Extra capacity, 480/240V, 0.3kVA
APCUEKC200	Standard capacity, 208V, 0.2kVA
APCUEKC300	Extra capacity, 208V, 0.3kVA
Spectra Wiring Kit	
APCUWK	Optional kit for remote wiring
Spectra PCU Expansion Kit	
APCUEKA (left side)	Kit to expand or rebuild PCU units
APCURKA (right side)	Same as above

Overload Relays (Class 10 fixed heater)

Type of Mounting	Rated Current (amps)		Manual/Automatic	
	min.	max.	Reset	
Direct Mount	0.16	0.25	RTA1B	
	0.25	0.4	RTA1C	
	0.4	0.63	RTA1D	
	0.63	0.9	RTA1E	
	0.8	1.1	RTA1F	
	1	1.5	RTA1G	
	1.3	1.9	RTA1H	
	1.9	2.7	RTA1J	
	2.5	4	RTA1K	
	4	6.3	RTA1L	
	5.5	7.5	RTA1M	
	7	10	RTA1N	
	10	13	RTA1P	
	12	15	RTA1R	
	14.5	17.5	RTA1S	
	17.5	22	RTA1T	
21	26	RTA1U		
25	32	RTA1V		
30	40	RTA1W		

