

UL508A BOTTOM MOUNT VFD BYPASS PANELS



The c3controls' ECP-BP series offers a configurable and UL 508A-listed solution for VFD bypass applications. This series provides a two or three contactor bypass design that seamlessly integrates with various VFD brands for increased flexibility. Available in Type 1 and Type 4 carbon steel enclosures, these panels fit directly below your VFD of choice and are conveniently shaped as tall slim panels to minimize their footprint. c3controls' VFD Bypass Panels come with all the features and benefits of our Series 300 Contactors, Series TB IEC Terminal Blocks, and Series 22mm IEC Pilot Devices. Our Series ECP-BP panels are factory wired with a control transformer saving you time and reducing installation costs.



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PROVEN





Conformity to Standards:

CONTACTORS

CSA C22.2 No. 14 IEC 60947-1, 60947-4-1

PILOT DEVICES

ENCLOSURES

UL 50 CSA C22.2 No. 94 IEC 60529

Certifications:

UL File #: E236197 (Guide NLDX, NLDX7), E68568 (Guide NKCR, NKCR7)

RoHS Directive 2011/65/EU)

UL File #: E68568 (Guide NKCR, NKCR7)

RoHS Directive 2011/65/EU)



UL508A BOTTOM MOUNT VFD BYPASS PANELS (INC.)

All our products are fully certified, rated, and backed by our limited lifetime warranty to meet the needs of the machine builder, and our bypass panels are no exception. Check out the incredible features in the chart below!

DELIVERING SUPERIOR PRODUCT QUALITY AND MANUFACTURING EXCELLENCE						
✓ Proven	Our Series ECP-BP Bottom Mount VFD Bypass Panels are UL508A Listed and CE marked meeting global standards requirements.					
✓ Enclosure Flexibility	Our ECP-BP Bottom Mount VFD Bypass Panels are available in two versions of Carbon Steel (Type 1 or Type 3R, 4 & 12).					
✓ Reliable	For enhanced safety and operational reliability, mechanically interlocked contactors ensure a seamless transition between VFD and bypass modes for motor operation.					
√ Simple Solution	c3controls' Electrical Engineers have designed these bottom mount VFD Bypass Panels specifically for any fan, pump, conveyor, or air handling VFD applications.					
✓ Limited Lifetime Warranty*	Every product is backed by our limited lifetime warranty—unmatched in the industry—bringing you quality components that perform in the most demanding applications.					
√ Quick Shipment	We assemble, test and ship fully assembled and wired panels within 15 days,—and confirm every order ensuring accuracy.					
✓ Advantage Pricing	Our approach to product development, manufacturing, and focus on servicing the OEM and Electrical Equipment Builder reduces cost. The result—the best value in the industry.					

^{*}See c3controls Terms & Conditions

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Without Local Bypass Control

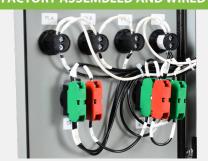


With Local Bypass



UNIQUE PRODUCT LINE FEATURES

FACTORY ASSEMBLED AND WIRED



Factory-assembled and wired bypass panels offer the convenience of a single catalog number, resulting in a more efficient bill of materials.

PRE-CONFIGURED



The contactor, disconnect, and transformer selections have been pre-configured based on your fuse size, streamlining the process of ordering and configuring fully assembled panels.

HIGH FAULT SCCR



Configuration options for high fault short circuit current rating of up to 100kA providing safety and reliability in high fault applications.

PRE-WIRED CONTROL CIRCUITS



The bypass panel control circuits come prewired with a control transformer that supplies 24VAC power, facilitating straightforward field installation. Additionally, all terminal blocks and wires are clearly labeled for ease of use.

SMALL FOOTPRINT



These slender panels are designed to fit directly beneath your chosen VFD and have been thoughtfully shaped to minimize their footprint.

FIND IT FAST

UL508A Bottom Mount VFD Bypass Panels



- Certifications
- Specifications
- Dimension Drawings
- Installation Instructions
- Easy to Buy

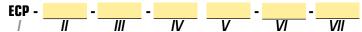
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IT'S EASY TO BUILD YOUR OWN VFD BYPASS PANEL

Simply pick the code number from each of the sections below and combine them to build your part number.

UL508A Bottom Mount VFD Bypass Panels



Example: To build one of our most popular VFD Bypass Panels, the part number would be ECP + II + III + IV + V + VI + VII or ECP-BP2-460V3P-F030-M1-01



	II. FUNCTION	
CODE	DESCRIPTION	LIST
BP2	2 Contactor Bypass, VFD Output & Bypass Output	\$ 511.00
BP3	3 Contactor Bypass, VFD Output & Bypass Output with Isolation Contactor	\$ 689.00

	III. INPUT VOLTAGE				
CODE	DESCRIPTION	LIST			
208V3P	3 Phase, 208V	\$ 230.00			
230V3P	3 Phase, 230V	\$ 230.00			
460V3P	3 Phase, 460V	\$ 230.00			
		-			

20kA
Class J Fuses, 100kA
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	V. DISCONNECT / FUSE / CONTACTOR SIZE						
CODE	DISCONNECT/ FUSE SIZE (A)	LIST					
	FOR	UL98 NON-FUSED	DISCONNECT SWITCHES (CODE D)				
030	30A Disconnect	20kA	40A	\$ 310.00			
		FOR UL98 FUSED D	ISCONNECT SWITCHES (CODE F)				
006	6A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
010	10A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
015	15A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
020	20A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
025	25A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
030	30A Class J Time Delay Fuse	100kA	25A	\$ 840.00			
035	35A Class J Time Delay Fuse	100kA	40A	\$ 1,090.00			
040	40A Class J Time Delay Fuse	100kA	40A	\$ 1,090.00			

	VI. ENCLOSURE RATING AND MATERIAL						
CODE	CODE ENVIRONMENTAL RATING MATERIAL DIMENSIONS BASED ON IV & V SELECTIONS LIST						
M1	Type 1	Carbon Steel	Frame 2 - Dimensions 9" x 30" x 8" (W x H x D)	\$ 560.00			
M4	Type 3R, 4 & 12	Carbon Steel	Frame 2 - Dimensions 9" x 30" x 8" (W x H x D)	\$ 924.00			

	VII. PILOT DEVICES	
CODE	DESCRIPTION	LIST
00	Without Local Bypass Control	\$ 50.00
01	With Local Bypass Control	\$ 200.00



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BOTTOM MOUNT VFD BYPASS PANELS

c3controls Series ECP-BP Bottom Mount VFD Bypass Panels are assembled from our Series 300 Contactors, Series TB IEC Terminal Blocks, and Series 22mm IEC Pilot Devices. Our Series ECP-BP panels are factory wired with a control transformer saving you time and reducing installation costs.



Product features include:

- VFD Bypass Panels offer the convenience of a single catalog number.
- Provides the same great features and benefits as our Series 300 Contactors, Series TB IEC Terminal Blocks, and Series 22mm IEC Pilot Devices.
- Carbon Steel enclosure comes in two versions; Type 1 or Type 3R, 4 & 12.
- Black/Red operating handle can be padlocked in the OFF position for extra safety and security needed during maintenance activities.
- Conveniently placed input and output terminal blocks provide easy access and quick installation.
- Compact panel size resulting in space savings and lower installed costs.





Some of Our Popular Configurations:

VFD BYPASS PANEL SERIES					
CODE	DESCRIPTION	LIST			
ECP-BP2-460V3P-F030-M1-01	2-Contactor Bypass, 460VAC 3-Phase Input, Fused Disconnect, 30A Class J Time Delay Fuses, Type 1 Carbon Steel Enclosure With Local Bypass	\$ 3,341.00			
ECP-BP3-460V3P-F020-M4-01	3-Contactor Bypass, 460VAC 3-Phase Input, Fused Disconnect, 20A Class J Time Delay Fuses, Type 4 Carbon Steel Enclosure With Local Bypass	\$ 3,883.00			
ECP-BP2-208V3P-N030-M1-00	2-Contactor Bypass, 208VAC 3-Phase Input, Non-Fused Disconnect, Type 1 Carbon Steel Enclosure Without Local Bypass Control	\$ 2,611.00			

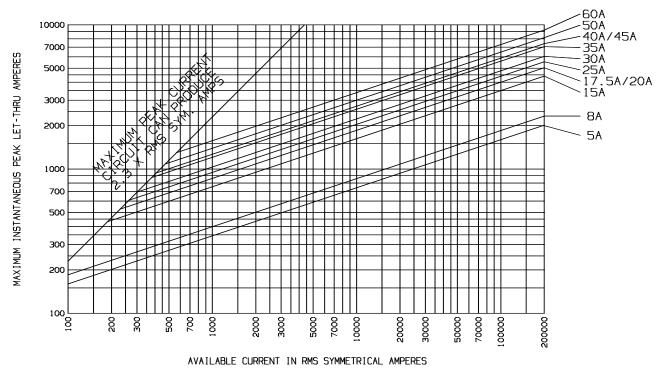


SPECIFICATIONS:

			DISCONNECT & POWER SIZE							
		D030	D030 F006 F010 F015 F020 F025 F030 F035							
	UNITS									
ELECTRICAL GENERAL										
Max. Rated Operating Voltage, Ue	VAC					460				
Short Circuit Current Rating	kA	20				10	00			
Disconnect Rating	Α	30 Non-Fused	30 Friend MI Friend						used	
Class J Time Delay Fuse Size	Α	_	— 6 10 15 20 25 30						35	40
Fuse Let-Through Characteristics			See diagram below for Maximum Instantaneous Peak Let-Through Curves							
Transformer Size	VA		150							
Transformer Primary Voltage(s)	VAC		208/230/460							
Transformer Secondary Voltage(s)	VAC		24							
Contactor Frame Size		S40			S25				S40	
COIL CHARACTERISTICS		For detailed	d contactor s	specifications	by contacto	r frame size ı	ating code, r	efer to Sec. 4	Page 14 of th	ne catalo
Rated Insulation Voltage, Ui	V					1,000				
Operating Limits					80 ~ 110%	of Rated Co	il Voltage			
ENVIRONMENTAL										
Altitude	m / ft.					3,000 / 9,792				
Ambient Operating Temperature	°C/°F				-20	to 55 / -4 to	131			
Ambient Storage Temperature	°C/°F				-50	to 80 / -58 to	176			
Enclosure: Carbon Steel (M1)						Type 1				
Enclosure: Carbon Steel (M4)					T	ype 3R, 4 & 1	2			

For additional technical information including terminal torque requirements and wire information reference the corresponding schematics and installation instructions at c3controls.com.

MAXIMUM INSTANTANEOUS PEAK LET-THROUGH CURVE - CLASS J TIME DELAY FUSES:

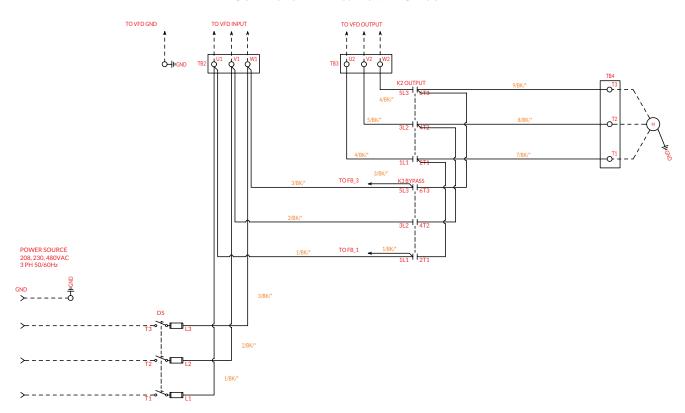


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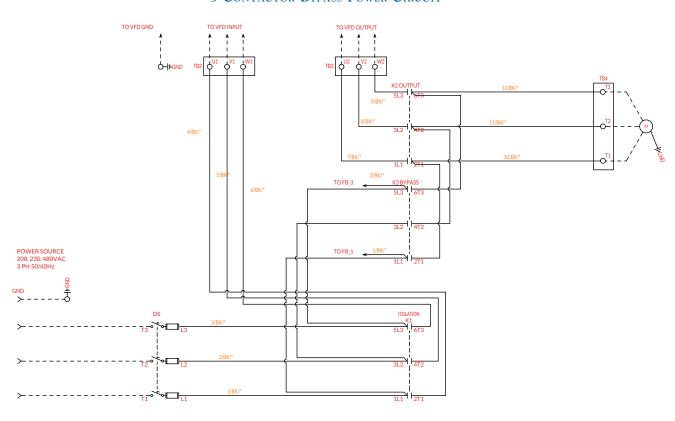
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2-CONTACTOR BYPASS POWER CIRCUIT

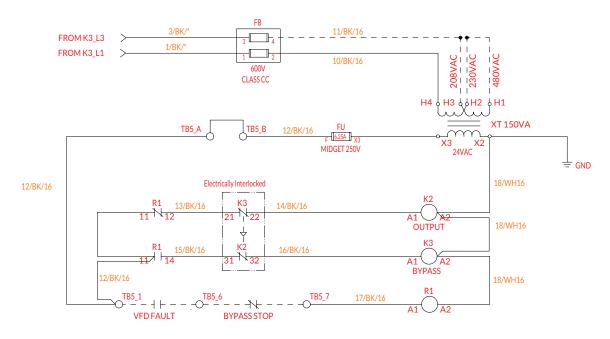


3-CONTACTOR BYPASS POWER CIRCUIT

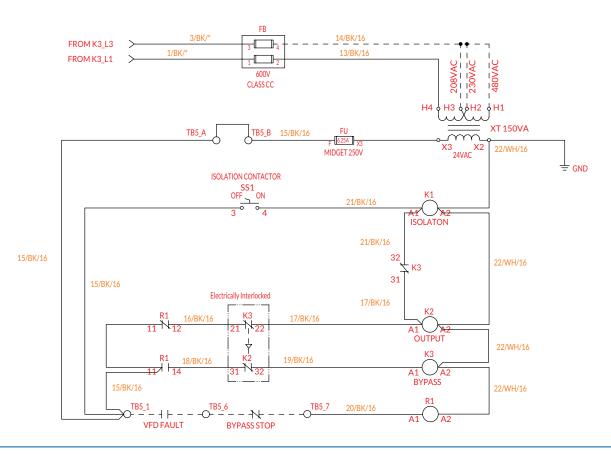




2 Contactor Bypass Control Circuit without Local Bypass Control



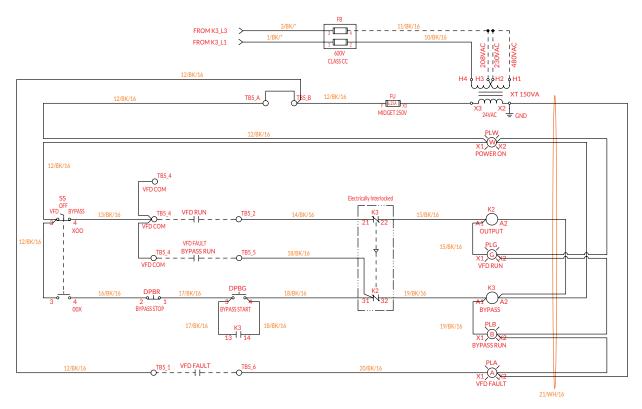
3 CONTACTOR BYPASS CONTROL CIRCUIT WITHOUT LOCAL BYPASS CONTROL



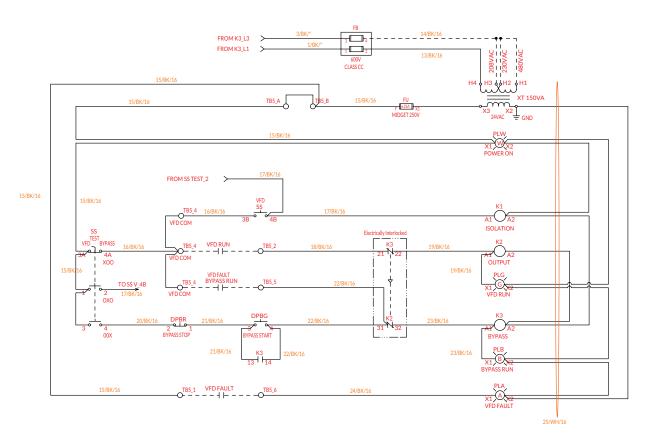
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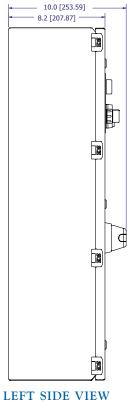
2 CONTACTOR BYPASS CONTROL CIRCUIT WITH LOCAL BYPASS CONTROL



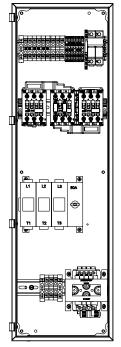
3 CONTACTOR BYPASS CONTROL CIRCUIT WITH LOCAL BYPASS CONTROL



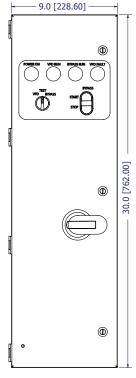




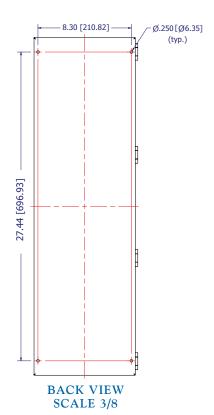
SCALE 3/8



FRONT VIEW (COVER OFF) SCALE 3/8



FRONT VIEW SCALE 3/8



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