





MITSUBISHI PACKAGED SOLUTIONS

Manufactured to the highest standards in UL approved facilities, the Packaged Solutions program takes Mitsubishi's high performance control products and engineers them into ready-to-use form.

Standard Packaged Solutions

Based on many years of practical industry experience, Standard Packaged Solutions are pre-engineered to meet the needs of a wide range of different applications within industrial, agricultural and commercial sectors, ensuring low cost and quick delivery.

Custom Packaged Solutions

Mitsubishi designs and constructs fully customized Packaged Solutions that meet the most exacting specifications. A Custom Packaged Solution could be anything from a single enclosure to a complete shipping container full of pre-commissioned control equipment, and can be made to US requirements or to meet the standards of any other country around the world

Every Package is supplied with full documentation and is backed up with a comprehensive 2 year warranty.

Custom Packaged Solutions Offer:

- Competitive and innovative designs
- Solutions built to your exact specifications
- Integrated VFD panels from 1/8th HP to 1000 HP
- Support from factory trained engineers
- Help with interpreting specifications
- Global standards compliance UL, cUL, CSA, CE
- Full documentation including AutoCAD drawings
- Designs archived for future reference or repeat orders
- Field installation and start-up services
- A full range of Mitsubishi Electric equipment integrated with 3rd party products
- Technical support and advice from beginning to end
- Complete solutions covered by 2 year warranty



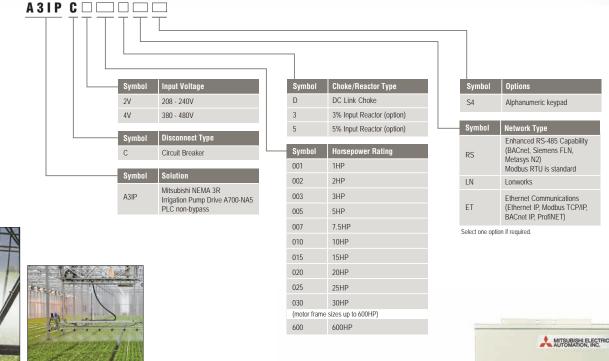
Custom Packaged Solutions offer the performance and reliability of Mitsubishi products in packages tailored to your exact specification.

A3IP AGRICULTURAL PUMP DRIVE SOLUTIONS

A3IP is a dedicated controller for agricultural pumping systems. These 230VAC (up to 150 HP) and 460VAC (up to 600 HP) drives, LD rated at 120% overload for one minute, are available in a non-bypass configuration only in NEMA 3R Wall mounted cabinets. A door mounted HMI communicates (transmit/ receives) data to the drive and operator.

Base System Includes:

- NEMA 3R outdoor duty construction
- RAL 7035 light gray paint
- A700-NA5 (PLC) drive
- Door mounted display and control terminal
- Bottom inlet and exhaust vents
- Fused control circuit transformer
- Thermostatically controlled cabinet space heater
- DU07 keypad / display with speed setting dial
- DC Link Choke is included as standard
- AC line circuit breaker with rotary handle
- Terminal blocks for control connections
- RS-485, Modbus RTU communication standard, EMI / RFI filter standard
- AutoCAD documentation packet
- Instruction manuals for VFD and controller
- UL / cUL 508A
- Hardware options: Input reactor, (3% or 5%), PU07 keypad / display door mounted
- Communications Options: BACnet[®] MS/TP, Metasys[®] N2, LonWorks[®], Siemens[®] FLN(P1), Ethernet/IP[™], BACnet[®] IP, Modbus[®] TCP/IP, PROFINET
- 2 year warranty





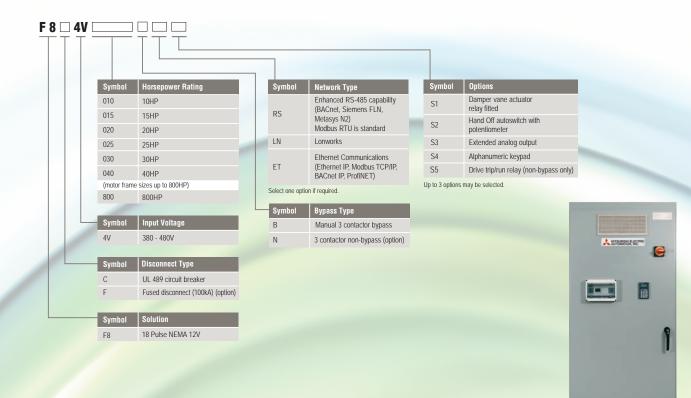


F8 TYPE 18 PULSE CONTROLLERS

F8 controllers are intended for the control of pumps and fans. 18 pulse technology is used to ensure that the quality of the site power supply is maintained. These 460VAC Drives (10-800 HP) are LD rated at 120% overload for one minute, available in both bypass and non-bypass configurations in NEMA 12 Ventilated Floor mounted cabinets. UL508A rated to meet IEEE519-1992 standards.

Base System Includes:

- NEMA 12 ventilated construction
- Standard Hoffman ANSI 61 gray paint
- 18 Pulse Clean Power Design Technology
- 3 contactor bypass with TEST mode
- Choice of bypass or non-bypass units
- Catch a spinning load / windmill start activated
- Adjustable overload relay, class 20 equivalent
- Programming / display keypad and speed setting dial
- Choice of fused disconnect or circuit breaker (standard)
- Control transformer, fused primary and secondary
- Terminal blocks for control connections
- RS-485, Modbus RTU Communication standard, EMI / RFI filter standard
- AutoCAD documentation packet
- Instruction manuals for VFD and controller
- UL / cUL 508A
- Hardware options: Damper vane actuator relay, extended analog output, hand-off autoswitch with potentiometer, PU07 keypad / display door mounted
- Communications Options: BACnet[®] MS/TP, Metasys[®] N2, LonWorks[®], Siemens[®] FLN(P1), Ethernet/IP[™], BACnet[®] IP, Modbus[®] TCP/IP, PROFINET
- 2 year warranty







TYPE C CONVEYOR DRIVES

These Constant Torque Conveyor Drives are specifically designed to meet the needs of the Material Handling Industry. Both 230VAC and 460VAC drives (1-20 HP) are ND rated at 150% overload for one minute. Options include circuit breaker or disconnect switch with a lockable handle and a solid state brake relay.

Base System Includes:

- Hang down frame construction
- Conveniently mounts beneath the conveyor
- Protective roof and sides around the drive
- D700 / E700 controller with LCD keypad / display
- ND Rated 150% overload for one minute
- AutoCAD documentation package
- Instruction manuals for VFD and controller
- Hardware options: Input circuit breaker or disconnect switch and a solid state brake relay
- 5 year warranty



Symbol	Input/Output Voltage	Symbol	Horsepower Rating	Symbol	Options	
2V	3/60/208 (230/240)VAC	001	1HP	S1	Circuit Breaker and Han	
4V	3/60/460 (480)VAC	002	2HP	S2	Disconnect Switch and H	
Symbol	Drive Type	003	3HP	S3	Brake Relay	
D	D700 Drive	005	5HP	Up to 3 option	Up to 3 options may be selected.	
E	E700 Drive	007	7.5HP			
-	Eroo Billo	010	10HP			
 Symbol	Solution	015	15HP			
С	Conveyor Drive	020	20HP			

TYPE CK CONDUIT MOUNTING KITS

The CK range of Type 1 Conduit Mounting Kits is intended for use with D700 and E700 Series VFDs. This kit allows the drive to be mounted outside of a normal enclosure.

Main Features

- Available for all 3 phase D700 and E700 VFDs
- Provides conduit holes on both sides and bottom
- Knockout conduits provided
- Supplied as a kit to be installed in the field
- Units available from stock
- 7 frame sizes
- Drive mounting screws provided
- Ample box area for easy wiring with generous wire bend radius
- Suitable for 208/230V and 460/480V drives



Conduit Kit Selection Chart

D700 Series VFD	Kit Ref.	
FR-D720-008-NA		
FR-D720-025-NA		
FR-D720-042-NA	CKDE1	
FR-D720-070-NA		
FR-D720-100-NA		
FR-D720-165-NA	CKDE3	
FR-D720-238-NA	CKDE4	
FR-D720-318-NA	GKDE4	
FR-D740-012-NA		
FR-D740-022-NA		
FR-D740-036-NA	CKDE1	
FR-D740-050-NA		
FR-D740-080-NA		
FR-D740-120-NA	CKDE4	
FR-D740-160-NA	UNDE4	

E700 Series VFD	Kit Ref.	
FR-E720-008		
FR-E720-015		
FR-E720-030	CKDE1	
FR-E720-050	GRDET	
FR-E720-080		
FR-E720-110		
FR-E720-175	CKDE3	
FR-E720-240		
FR-E720-330	CKDE5	
FR-E720-470	GKDE5	
FR-E720-600		
FR-E740-016		
FR-E740-026		
FR-E740-040	CKDE2	
FR-E740-060		
FR-E740-095		
FR-E740-120	CKDF4	
FR-E740-170	UNDE4	
FR-E740-230	CKDE5	
FR-E740-300	UKDED	

TYPE G GENERAL PURPOSE CONTROLLERS FOR D700 AND E700 VFD – NEMA 12 OR NEMA 3R

Type G controllers are general purpose packaged drives suitable for a wide range of applications where a remote mounted VFD is required. Any Mitsubishi VFD up to 700HP can be configured into a type G package with either a NEMA 12 or NEMA 3R enclosure.

Base System Includes:

- NEMA 3R ventilated construction outdoor duty
- RAL 7035 light gray paint
- Bottom mounted inlet and exhaust vents
- D700 controller with LCD keypad / display
- Rated 150% overload for one minute, 200% for 3 seconds
- DC Link Choke included as standard
- Thermostatically controlled space heater
- Choice of fused disconnect or UL 489 circuit breaker (standard)

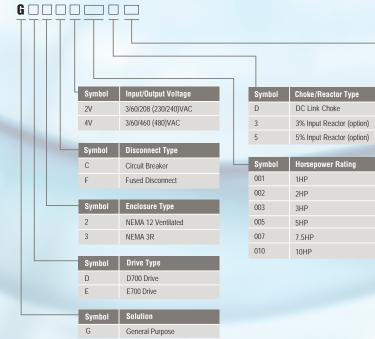
Symbol

- Modbus RTU Communication standard
- AutoCAD documentation package
- VFD instruction manual
- UL / cUL 508
- Hardware options: Input reactor, (3% or 5%), door mounted PU07 keypad / display

Options

Alphanumeric keypad

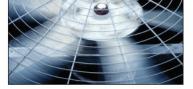
2 year warranty











TYPE G GENERAL PURPOSE CONTROLLERS FOR A700 AND F700 VFD – NEMA 12 OR NEMA 3R

Base System Includes:

- NEMA 12 ventilated construction
- RAL 7035 light gray paint
- Bottom mounted inlet and exhaust vents
- F700 controller with LCD keypad / display
- LD Rated 120% overload for one minute
- DC Link Choke included as standard
- Choice of fused disconnect or UL 489 circuit breaker (standard)
- RS-485, Modbus RTU Communication standard, EMI/RFI filter standard
- AutoCAD documentation package

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- Instruction manuals for VFD and controller
- UL / cUL 508
- Hardware options: Input reactor, (3% or 5%), PU07 keypad / display
- Communications Options: BACnet[®] MS/TP, Metasys[®] N2, LonWorks[®], Siemens[®] FLN(P1), Ethernet/IP[™], BACnet[®] IP, Modbus[®] TCP/IP, CC-Link[®], DeviceNet[™], PROFIBUS-DP
- 2 year warranty

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Symbol Input/Output Voltage 2V 3/60/208 (230/240)VAC 4V 3/60/460 (480)VAC 4V 3/60/460 (480)VAC C Circuit Breaker F Fused Disconnect Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution			
2V 3/60/208 (230/240)VAC 4V 3/60/460 (480)VAC Symbol Disconnect Type C Circuit Breaker F Fused Disconnect Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution			
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Symbol Disconnect Type C Circuit Breaker F Fused Disconnect Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution			
C Circuit Breaker F Fused Disconnect Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution		4V	3/60/460 (480)VAC
F Function Streams F Function Streams Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution	4	Symbol	Disconnect Type
Symbol Enclosure Type 2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution		С	Circuit Breaker
2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution		F	Fused Disconnect
2 NEMA 12 Ventilated 3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution			
3 NEMA 3R Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution			Enclosure Type
Symbol Drive Type A A700 Drive F F700 Drive Symbol Solution		2	NEMA 12 Ventilated
A A700 Drive F F700 Drive Symbol Solution		3	NEMA 3R
A A700 Drive F F700 Drive Symbol Solution		Symbol	Drive Tyne
F F700 Drive Symbol Solution			
Symbol Solution			
			1700 Dilic
	_	Symbol	Solution
G General Purpose		G	General Purpose

Symbol	Choke/Reactor Type		
D	DC Link Choke		
3	3% Input Reactor (option)		
5	5% Input Reactor (option)		
Symbol	Horsepower Rating		
001	1HP		
002	2HP		
003	3HP		
005	5HP		
007	7.5HP		
101	10HP		
015	15HP		
020	20HP		
025	25HP		
030	30HP		
(motor frame	(motor frame sizes up to 700HP)		
700	700HP		

Symbol	Options
S4	Alphanumeric keypad
Symbol	Network Type
LN	Lonworks (FR-A7NL)
ET	Ethernet (FR-A7NE)
RS	RS485 (FR-A7N-XLT)
CC	CC-Link (FR-A7NC)
DN	DeviceNet (FR-A7ND)
DP	Profibus (FR-A7NP)



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