



**Outdoor  
rated**

# **F3R** SERIES

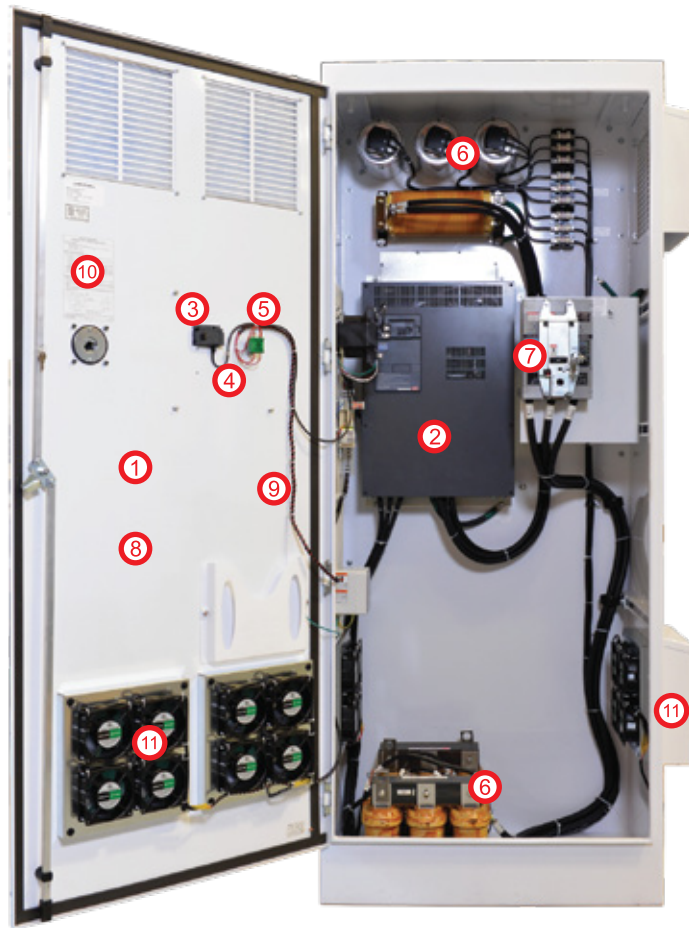
**Up to 800 HP / 480 VAC**

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For outdoor applications  
Long-lasting NEMA 3R panel  
Filtered forced air ventilation  
Washable poly filters  
Remote I/O capability  
Advanced PID function  
Easy installation - 3 lines in & 3 lines out  
Optional IEEE 519 harmonic filter

# FEATURES

Feature	Benefit
① NEMA 3R enclosure	Provides protection to personnel and equipment by limiting access and preventing ingress of water, rocks, snow and sleet
② Variable frequency drive	The F3R panel utilizes the Mitsubishi F700 series and includes a 1 year warranty
③ Full function keypad	Operate the VFD without opening the panel
④ LED 22mm pilot lights	Quickly view the status of the panel
⑤ 22mm door operator switches	Power on and off and make adjustments without opening the panel or accessing the keypad
⑥ Pure Power II™ harmonic filter	Protects the VFD from power surges and reduces electrical noise to 12% or 15%
⑦ Door-interlocked input circuit breaker disconnect	Provides additional safety by powering down the equipment before opening the panel and allowing OSHA lockout
⑧ White enclosure	Reduce sun load up to 20% (compare to gray)
⑨ Embossed numbering system	Each wire is uniquely identified for ease of troubleshooting
⑩ UL508A listed	Complete system tested and certified prior to shipment
⑪ Filtered forced air intake plenum	Positive pressure filtered enclosure with redundant fans. Easily remove and replace washable poly filter without cutting power or opening door



# SPECIFICATIONS

Control System	Soft PWM for peak voltage mitigation at motor terminals and quiet operation	Control Power	120V control power transformer with primary fuses, secondary fuses, and isolation relays
Input Voltages	200-240VAC / 460-480VAC	Bypass (Optional)	Three contactor bypass
Motor Voltages	200-240VAC / 460-480VAC	Alarm History	8 alarms saved
Input Voltage Range	170-264VAC / 323-528VAC	Door Mounted Controls	22mm LED lights and operator devices
Input Phase	3-phase	Keypad	Standard full function keypad, advanced alpha-numeric keypad optional
Input Frequency	50 or 60 Hz	Ambient Temperature	40°C, other temperature ratings available
Output Frequency	0.5 to 400 Hz	UL Listed  US LISTED	UL508A tested and listed
Horsepower	1/2 - 75 HP (at 230VAC) 1/2 - 800 HP (at 480VAC)	Communications	Modbus-RTU & BACnet MS/TP standard, other communications options available
Overload Rating	110% 60 sec, 120% 3 sec Additional overload ratings optional	Circuit Breaker	Padlockable door-interlocked circuit breaker standard, 65 KAIC optional
VFD	Mitsubishi F700 series, other options available	Windmill Start	Catch a spinning load
Enclosure	NEMA 3R filtered forced air ventilated enclosure	Line Reactor	3% standard (5% optional)
Card Options	Two option cards can be installed simultaneously A wide range of option cards available	Warranty	1 year standard warranty, extended warranties optional
Dimensions (WxHxD)	24"x36"x16" (up to 25 HP)    36"x72"x18" (up to 150 HP) 36"x48"x16" (up to 60 HP)    36"x90"x24" (up to 300 HP) 36"x60"x16" (up to 100 HP)    36"x90"x36" (up to 500 HP)	Harmonic Filter (Optional)	Harmonic Filters 12% or 15% (Minimize harmonic distortion, cleaner power, comply with IEEE 519 requirements)



Washable Poly Filter



Weather-Proof Control



Pure Power II™ Harmonic Filter



Dual-Lock Handle