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See entire series of this product: FREQROL FR-A800 series > **FR-A840-11K-1**

FR-A840-11K-1

VSD/VFD - Mitsubishi - FR-A800 series - 3-phase input - 23A / 11kW / 15HP

Variable Speed/Frequency Drive (VSD/VFD) / Inverter with FM term. (PTO output) - Mitsubishi Electric (FREQROL FR-A800 series) - input 380Vac-500Vac (3-phase/3P) - 11kW / 15HP - 23A (ND Normal Duty) - frequency (output) 0.2-590Hz - with Modbus RTU communication capability - IP20 - input voltage nominal values 400Vac / 415Vac / 480Vac - equivalent to FRA84011K1



Brand

Mitsubishi Electric

Prix tarif

\$5,528.00

STOCK: DEMANDER UN DEVIS



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FR-A840-11K-1 MITSUBISHI ELECTRIC - FREQROL FR-A800 SERIES

Caractéristiques

Marque principale

Mitsubishi Electric

Fonction principale

Variable Speed/Frequency Drive (VSD/VFD) / Inverter

Nom de la gamme / famille de produits

FREQROL FR-A800 series

Fréquence du réseau

(output) 0.2-590 Hz

Fonctions

Variable Speed/Frequency Drive (VSD/VFD) / Inverter

Soft-PWM control

High carrier frequency PWM control

PM sensorless vector control

Maximum and minimum frequency settings

Multi-speed operation

Acceleration/deceleration pattern

Thermal protection

DC injection braking

Starting frequency

JOG operation

Rotation display

Automatic restart after instantaneous power failure

Electronic bypass sequence

Remote setting

Automatic acceleration/deceleration

Retry function

Carrier frequency selection

Fast-response current limit

Forward/reverse rotation prevention

Operation mode selection

Slip compensation

Droop control

Load torque high-speed frequency control

Speed smoothing control

Traverse

Auto tuning

Applied motor selection

Gain tuning

RS-485 communication

PID control

PID pre-charge function

Easy dancer control

Cooling fan operation selection

Stop selection (deceleration stop/coasting)

Power-failure deceleration stop function

Stop-on-contact control

PLC function

Life diagnosis

Maintenance timer

Current average monitor

Multiple rating

Speed control

Torque control

Position control

Pre-excitation

Torque limit

Test run

24V power supply input for control circuit

Safety stop function

Anti-sway control

DC feeding

Type de conception

FM term. (PTO output)

Forced air cooling

Tension d'alimentation (Courant Alternatif)

380Vac-500Vac

(400Vac / 415Vac / 480Vac)

Type de réseau électrique

3-phase/3P

Courant nominal

23A (ND Normal Duty)

31A (SLD Super Light duty)

29A (LD Light duty)

17A (HD Heavy Duty)

150% In for 60s / 200% In for 3s overload current rating (inverse-time characteristics; Normal duty; 50°C ambient air temperature)

110% In for 60s / 120% In for 3s overload current rating (inverse-time characteristics; Super light duty; 40°C ambient air temperature)

120% In for 60s / 150% In for 3s overload current rating (inverse-time characteristics; Light duty; 50°C ambient air temperature)

200% In for 60s / 250% In for 3s overload current rating (inverse-time characteristics; Heavy duty; 50°C ambient air temperature)

Puissance active nominale (kW)

11kW (ND Normal Duty)

15kW (SLD Super Light Duty)

15kW (LD Light duty)

7.5kW (HD Heavy Duty)

Overcurrent trip during acceleration
Overcurrent trip during constant speed
Overcurrent trip during deceleration or stop
Regenerative overvoltage trip during acceleration
Regenerative overvoltage trip during constant speed
Regenerative overvoltage trip during deceleration or stop
Inverter overload trip
Motor overload trip
Heatsink overheat
Stall prevention stop
Upper limit fault detection
Lower limit fault detection
Output side earth (ground) fault overcurrent
Output short-circuit
Output phase loss
Option fault
Communication
Option fault
Parameter storage device fault
PU disconnection
CPU fault
Operation panel power
Supply short circuit/RS-485 terminals power supply short circuit
24Vdcpower fault
Communication fault
Analog input fault
USB communication fault
Safety circuit fault
Opposite rotation
Internal circuit fault
External thermal relay operation (not available in initial status)
Loss of synchronism detection
PTC thermistor operation
Retry count excess
Abnormal output current detection
Brake sequence fault
4mA input fault
Pre-charge fault
PID signal fault
Deceleration fault
Brake transistor alarm detection
Instantaneous power failure
Undervoltage
Input phase loss
Inrush current limit circuit fault
Overspeed occurrence

Protocole de communication

Modbus RTU

Entrées numériques

1 x digital input (source/sink) (STF)
1 x digital input (source/sink) (STR)
1 x digital input (source/sink) (STOP)
1 x digital input (source/sink) (RH)
1 x digital input (source/sink) (RM)
1 x digital input (source/sink) (RL)
1 x digital input (source/sink) (JOG)
1 x digital input (source/sink) (RT)
1 x digital input (source/sink) (MRS)
1 x digital input (source/sink) (RES)
1 x digital input (source/sink) (AU)
1 x digital input (source/sink) (CS)
1 x digital input (SS1 safe stop channel 1)
1 x digital input (SS1 safe stop channel 2)

Sorties numériques

1 x digital output (SPDT (Single Pole Double Throw contact A1/B1/C1) (programmable)
1 x digital output (SPDT Single Pole Double Throw contact A2/B2/C2) (programmable)

1 x digital output (PIO Pulse Train Output) (Frequency meter indicator)
1 x digital output (programmable) (SO - Safety Monitor Output)

Entrées analogiques

1 x analog input (0-5Vdc / 0-10Vdc / 0-20mA)
1 x analog input (0-5Vdc / 0-10Vdc)
1 x analog input (0-5Vdc / 0-10Vdc / 4-20mA)

Sorties analogiques

1 x analog output (0-10Vdc) (signal output)

Indice de protection

IP20

Puissance apparente nominale (S)

18kVA (ND Normal Duty)
24kVA (SLD Super Light Duty)
22kVA (LD Light duty)
13kVA (HD Heavy Duty)

Type d'application

Transfer
Lift
Food Packaging
Machine tool
Press
Printing
Winding/unwinding

Référence produit fabricant

FR-A840-11K-1

Statut du produit chez le fabricant

Commercialized

Equivalent à

FRA84011K1

Conforme aux normes

UL
cUL
CE
KC (South Korea) Radio Waves Act
EAC
RoHS

VOIR MOINS

Documents associés

Nom	Dernière mise à jour	Langue
Mitsubishi Electric - Factory Automation (FA) - FREQROL - FR-A800 Series - Catalog.pdf	13 Jan 2023	English (US)
Mitsubishi Electric - FR-A800 Inverters Brochure.pdf	03 Aug 2022	English (US)

Accessories and Spare parts for this product

Search keywords

Motor & motion control

	FR-V7CBL15		Cable for encod. - 15m length - Mitsubishi Electric - equivalent to FRV7CBL15
	FR-V7CBL30		Cable for encod. - 30m length - Mitsubishi Electric - equivalent to FRV7CBL30
	FR-A8NC		CC-Link communication module - plug-in type - Mitsubishi Electric - with CC-Link commun
	FR-A8NCE		CC-Link communication module - plug-in type - Mitsubishi Electric - with CC-Link commun
	FR-A8TAT		Control circuit term. blk intercompatibility attachment - Mitsubishi Electric - equivalent to F
	FR-A8ND		DeviceNet communication module - plug-in type - Mitsubishi Electric - with DeviceNet com
	FR-A8AX		Digital input module - plug-in type - 16-bit - Mitsubishi Electric - equivalent to FRA8AX
	FR-A8AY		Digital output module with extension analog output - plug-in type - Mitsubishi Electric - eq
	FR-A8APR		Encod. with feedback control - Mitsubishi Electric - equivalent to FRA8APR
	FR-A8NF		FL remote communication module - plug-in type - Mitsubishi Electric - equivalent to FRA8N
	FR-LU08-01		LCD display operation pnl. - hand-off auto - Mitsubishi Electric - IP55 - equivalent to FRLU08
	FR-LU08		LCD display operation pnl. - Mitsubishi Electric - equivalent to FRLU08
	FR-ADP		Operation pnl. connector - Mitsubishi Electric - equivalent to FRADP
	FR-CB201		Parameter unit connection cable - 1m length - Mitsubishi Electric - equivalent to FRCB201
	FR-CB203		Parameter unit connection cable - 3m length - Mitsubishi Electric - equivalent to FRCB203
	FR-CB205		Parameter unit connection cable - 5m length - Mitsubishi Electric - equivalent to FRCB205
	FR-PU07BB		Parameter unit with batt. pack - Japanese version - Mitsubishi Electric - equivalent to FRPU
	FR-PU07BB-L		Parameter unit with batt. pack - Mitsubishi Electric - equivalent to FRPU07BBL
	FR-A8AP		Plug-in option with orientation control + encod. feedback control + vector control - Mitsubis
	FR-A8AL		Plug-in option with orientation control + encod. feedback control + vector control + position

	FR-DU08		Remote keypad - Mitsubishi Electric - equivalent to FRDU08
	FR-A8AR		Rly. output module - plug-in type - Mitsubishi Electric - equivalent to FRA8AR
	FR-A8TR		Screw term. blk - Mitsubishi Electric - equivalent to FRA8TR
	FR-A8NS		SSCNET III(H) communication module - plug-in type - Mitsubishi Electric - equivalent to FR
	MR-J3USBCBL3M		USB cable - 3m length - Mitsubishi Electric - equivalent to MRJ3USBCBL3M
	FR-A8TP		Vector control term. blk - Mitsubishi Electric - equivalent to FRA8TP

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