

MX8

focus

dynamics

Sensorless Vector AC Drives

- High Dynamics Performance
- Compact Design
- User Friendly



MX8, the compact size with marvelous performance AC Drives, applies Sensorless Vector concept to control the output voltage and the frequency to the motor.

MX8 uses current sensors to detect the three phase AC current and phase angles, and applies the Sensorless Vector algorithm to compensate motor variation, with slip compensation keeping actual motor speed close to the desired speed.

MX8 will provide more torque at low speed and automatically compensate the motor slip under heavy load conditions.

MX8 is a constant and variable torque dual rating AC Drives. This will enable **MX8** covers a wide range of applications to all 3-phase AC induction motors. In additions, **MX8** comply with all the relevant quality standards and safety regulations relating to installation and operation.

Integrated Control Solutions

A Product of Focus Dynamics, United Kingdom

High Dynamics Performance & Compact Sensorless Vector AC Drives

- Volts / Hertz and sensorless vector control
- 150% torque in overall range
- Motor parameter auto-tuning at stop mode
- 0~10Vdc and 0~20mA Analog Input
- Built-in RS485 / Modbus communication
- Optional remote keypad
- Compact size

MX8 Sensorless Vector AC Drives Specification

Model		MX8/37	MX8/55	MX8/75	MX8/110	MX8/150	MX8/220	MX8/300
Motor rating	[HP]	0.50	0.75	1.0	1.5	2.0	3.0	4.0
	[kW]	0.37	0.55	0.75	1.1	1.5	2.2	3.0
Output rating	Rated current [A]	1.6	2.1	2.5	3.3	4.1	5.4	6.9

Model		MX8/400	MX8/550	MX8/750	MX8/1100	MX8/1500	MX8/1850	MX8/2200
Motor rating	[HP]	5.5	7.5	10.0	15.0	20.0	25.0	30.0
	[kW]	4.0	5.5	7.5	11.0	15.0	18.5	22.0
Output rating	Rated current [A]	8.8	11.6	16.0	22.0	30.0	37.0	44.0

Input ratings	Voltage [V]	Three phase, 380-480 VAC						
	Frequency [Hz]	50/60Hz						
PWM carrier frequency	Frequency [kHz]	2-16kHz						
Output frequency	Frequency [Hz]	0-650Hz						

Control Method	Sensorless • Standard V/F • Power-Control Mode						
V/F ratio	• Linear • Square						
Overload capacity	150%						
Torque boost	• Auto • Manual						
Multi-function input terminals	Programmable						
Analog input / output	Three (3) AI & One (1) AO • 0 to 10V linear • 0 to 20 mA • Programmable						

Input signal	Operator control	• 7-segment display • Terminals • Communications (RS485 / Modbus)						
	Frequency setting	• Keypad • Communication						
Multi-step operation	Setting up to 3 speeds							
Accel./Decel. time	0.1 to 6553.0 sec							
Operational functions	• Standard V/F (I) & (II) • Sensorless (I) & (II) • Power (Torque) control							
Auto tuning	• Dynamic tuning • Static tuning							
Digital inputs	Six (6)							
Output signal	Operational status	• Run • Stop • Frequency detection • Thermal trip • Sensorless boost						
	Indicator	• Output frequency • Output current						
Auto run steps	• Programmable • 5 steps							
Digital outputs	Three (3)							
Protection functions	Trip	• Thermal trip						



focus dynamics

Asia Pacific

focus dynamics technologies berhad
 No.12, 14 & 16 Jalan PJU 1A/11
 Ara Damansara
 46050 Petaling Jaya
 Selangor Malaysia
 tel: +6(03) 7845 0896 fax: +6(03) 7845 0897

Europe

focus dynamics industrial systems ltd
 19 Kathleen Road
 London SW11 2JR
 United Kingdom
 tel: +44 1 938 552 016
 fax: +44 1 938 553 484