



Part Number	R912005980
Type Code	EFC5610-22K0-3P4-MDA-7P-NNNNN-NNNN
Serie	EFC5610
Control Type	Sensorless Vector, Vector Control with Encoder, V/F
Input Voltage	3 AC 380 - 480 V
Output Power (KW)	22
Output Current (A)	45.2
Dual-Rating ND/HD	YES. Up to 1 level in ND
Overload	ND: 150 %, 60 s, 200 %, 1 s HD: 120 %, 60 s
Speed Range (Hz)	0...400
Speed Regulation	1:200
Start-up Torque	0.5Hz @ 200%
Control motor type	Asynchronous Motor & Permanent magnet Motor
Brake chopper	Internal
Brake Resistor	18.9Ω 3500W . Brake Ratio 10%. For other ask Bosch Rexroth
Ventilation Fan	Removable cooling Fan
Internal DC Reactor - Line Choke	Without
Internal EMC	C3, Can be disable via a screw
DC Bus Terminal	Have
IP/Cold Plate	IP20
Keypad	Detachable 7 segment standard display (5 digits). Copy Unit
Firmware	General firmware
Safety Torque Off Function (STO)	Without
Analog Input - AI	2 AI @ 0...10 V or 0...20 mA
Analog Output - AO	1 AO @ 0...10 V or 0...20 mA
Digital Input - DI	5 DI - NPN/PNP@ 24V 4mA / 12V 8mA 5th DI support pulse max 50kHz
Digital Output - DO	1 DO @ 30VDC, 50mA or Pulse max 32kHz
Relay Output -RO (Ta, Tb, Tc)	1 RO @ 250 VAC, 3A / 30VDC, 3A
Multi-Speed/Simple PLC	YES-16 Stages
PID Control	YES
Communication	ModBus 485
Optional I/O Card	YES - 4DI, 1AI, 1AO, 1OC,1 relay output
Optional Relay Output Card	YES - 4 RO, 250 VAC, 3 A/30VDC, 3 A
Optional Communication Card	YES - PROFIBUS DP, CANopen, SERCOS III, PROFINET IO, Ethernet IP, Modbus TCP, EtherCAT
Optional Encoder Card	YES - ABZ or Resolver
Size WxHxD (mm)	165x315x241
Weight (kg)	8.5
Mounting	Wall, Side by Side
Rated Ambient Temperature	45 °C
Certificate	CE, EAC, UL, cUL, RCM, TUV, RoHS
Application	Medium to big machine: industry mixer, CNC machine, extruding equipment, machine tool, food packing With requirement: EMC filter, High-Standard, Ethernet Communication, Encoder Feedback
Connect to PC	YES-USB Type B
Commissioning Software - Link Download	ConverterWorks 1.8.103.0
Video Link	https://www.youtube.com/watch?v=9zispZHBRXQ https://www.youtube.com/watch?v=mzWcw0cU5Vk
Document Link	https://www.boschrexroth.com/various/utilities/mediadirectory/download/index.jsp?object_nr=R912005854