



C-Flex Enclosed Drive Controllers

Maximum flexibility for the most demanding applications

Make the most of your energySM

Schneider
Electric

Designed for maximum flexibility to meet the most demanding applications

The C-Flex™ enclosed drive controller features the Altivar™ 61/71 adjustable frequency power converters to provide a robust, packaged, adjustable-speed solution for commercial, industrial, and municipal process applications where high functionality of features is required. C-Flex enclosed drive controllers offer a platform of standard, engineered, and special features to meet the most demanding application and specification requirements. C-Flex enclosed drive controllers are low-voltage products available in the following ratings:



Constant torque

(Heavy-duty ratings – 150 per cent current limit)

- Altivar 71 power converter
- 1 hp to 100 hp, 600 V

Variable torque

(Standard-duty – 110 per cent current limit)

- Altivar 61 power converter
- 1 hp to 100 hp, 600 V

C-Flex enclosed drive controllers are available in Type 1 general purpose, Type 12, Type 4, Type 4X, or Type 3R enclosure.

Integrated enclosures can be wall mounted. They provide a disconnect and enough room for power peripherals, including isolation and bypass contactors, all within the same enclosure.



Typical Dimensions

hp @ 600 V	Height	Width	Depth	Drive Frame Size
3 - 10 Size 5A	24	20	12	T5A
3 - 10 hp	36	24	12	T6
15 - 30	36	24	12	T6
40 - 100	42	36	16	T8

Featuring the Altivar 61 and 71 power converter platform



Altivar 61/71 power converter

High and optimised power converter performance

Provides evolutionary performance to meet even the most demanding applications. The C-Flex power converters are optimised for motor control applications. They are reliable, expandable, and easy to control.

Intuitive graphic display terminal

Offers end-use simplicity in plain text with diagnostics capability and ease of programming that is illustrated, precise, and clear even from 16 feet away.

Expandable connectivity to network protocols

Features connectivity capabilities to:

- Building automation – BACnet®, LonWorks®, Metasys® N2, APOGEE® P1
- Industrial – DeviceNet™, Ethernet TCP/IP, FIPIO, Interbus-S, Modbus Plus, Modbus/Uni-Telway™, PROFIBUS DP

Key benefits

- Custom performance – customised to provide optimal performance to meet specific industrial, municipal, and high-end commercial application requirements.
- Ease of use – features easy-to-use graphic terminal display and operators mounted on enclosure doors, which are preprogrammed by the factory to save set-up time and money when commissioning.
- Reliable operation – fully-rated (AC3 duty) motor isolation and bypass contactors with electrical and mechanical interlocks prevent accidental voltage feedback. An integrated AC line reactor provides transient protection from surge and overvoltage conditions while minimising line harmonics.



Expandable network cards



Intuitive graphic display terminal

Catalogue number explanation

8838 CFD N G 6 V C60 A07

1 2 3 4 5 6 7 8

Class

1 Combination device

8838 = Fused Disconnect c/w Fuses

Type

2 Design

CFD = C-Flex controller

3 Horsepower rating

E = 3 **M** = 30
F = 5 **N** = 40
G = 7.5 **P** = 50
H = 10 **Q** = 60
J = 15 **R** = 75
K = 20 **S** = 100
L = 25

4 Enclosure environmental rating

G = Type 1 general purpose
A = Type 12
D = Type 4
W = Type 4X
H = Type 3R

5 Voltage code

6 = 600 V, 60 Hz

6 Application type

C = Constant torque (150% current limit)
V = Variable torque (110% current limit)

7 Power circuit type

C60 = 2 contactor bypass
C61 = 3 contactor bypass

8 Mods

Modifications

(120+ options are available)

Control Options

A07 = H-O-A Selector Sw, Potentiometer
B07 = H-O-A Selector Sw, START/STOP, Push Button, Potentiometer
C07 = START/STOP Push Buttons, Potentiometer
N07 = No Operators

Pilot Light Options

A08 = LED Pilot Lights: POWER ON, RUN, FAULT, AUTO
B08 = LED Pilot Lights: POWER ON, RUN, FAULT, BYPASS
C08 = LED Pilot Lights: POWER ON, RUN, FAULT
N08 = No Pilot Lights

Communication Options


A06 = BACnet
B06 = LonWorks
C06 = Metasys N2
D06 = APOGEE FLN P1
B93 = DeviceNet
B95 = Ethernet TCP/IP
G09 = PROFIBUS DP
H09 = I/O Ext Card, 0 - 20mA out

Miscellaneous Options

A09 = 5% Line Reactors (3% Reactors Standard)
A11 = 3% Load Reactor
A12 = 5% Load Reactor
B09 = IEC Line Contactor
D71 = Omit Door Mounted Keypad
E10 = Smoke Purge
D61 = dV/dT Filter
A99 = Engineered Option

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