

Allen-Bradley Industrial Motors

Rockwell Automation offers a wide range of Allen-Bradley® industrial motors to fit all your application needs. The Allen-Bradley Industrial Motors are built with the features you need for your high performance application.

- Broad product offering for one-stop shopping
- High performance
- Optimized designs for a wide range of applications and environments to maximize your motor performance
- High quality vector motors
- NEMA premium efficient designs to help lower energy costs
- Improved dynamic response
- Wide range of torque and speed to fit your application
- Superior service life with minimal maintenance
- Lower operating temperature rise for increased motor life

Motors designed to meet the needs of the Allen-Bradley PowerFlex® drives



Today's industries are looking for high quality, highly efficient motors that will stand up to the exceptional demands on them, such as the extreme thermal and electrical demands of low speed, high torque applications. Allen-Bradley industrial motors are designed to meet those challenges with top-quality vector motors and NEMA premium efficient designs.

Rockwell Automation offers a wide selection of Allen-Bradley motors designed for optimum variable speed performance and service life. These industrial motors are a result of the practical application of advanced electrical and electronic technology – backed by decades of application experience.

NEMA Premium Efficient Motors

- Help lower your energy costs
- Maximize energy efficiency through optimized electrical design
- Qualify for utility rebates
- Help extend motor life with cooler operating temperatures

LISTEN.
THINK.
SOLVE.®

**ALLEN-BRADLEY
INDUSTRIAL MOTORS**

**CM103
General Purpose, Totally Enclosed**



**CM107
General Purpose, Open Enclosure**



**CM111, CM211
Severe Duty**



Power Range

• 1/4 - 200 Hp

Enclosure

• TENV, TEFC

Base Speeds

• 900, 1200, 1800, 3600 rpm

Voltage Ratings

• 208/230/460V AC

Insulation System

• Class F Materials

Frame Construction

• Rolled Steel or Cast Iron

Variable Speed Range

• CT 2:1, CT 4:1, CT 10:1, CT 20:1, VT 20:1, Sine Wave

Motor Efficiency

• Energy Efficient, Premium, NEMA Premium

Encoder Capable

• No

Environment

• Industrial IP44

• 1-300 Hp

• ODP, DPG

• 1200, 1800, 3600 rpm

• 208/230/460V AC

• Class F Materials

• Rolled Steel or Cast Iron

• CT 2:1, CT 4:1, CT 10:1, CT 20:1, VT 20:1, Sine Wave

• NEMA Premium

• No

• Clean, IP22

• 3/4 - 400 Hp

• TENV, TEFC

• 900, 1200, 1800, 3600 rpm

• 208/230/460/575V AC

• Class F Materials

• Rolled Steel or Cast Iron

• CT 2:1, CT 4:1, CT 10:1, CT 20:1, CT 1000:1, VT 20:1, Sine Wave

• Energy Efficient, Premium, NEMA Premium

• Contact Industrial Motors Hotline for compatible motors (1.262.512.8800)

• Chemical, Wet, IP54

**CM201, CM221
Vector Class, Small Hp
Wide CHP Range**



**CM202, CM222
Vector Class, Small to Medium Hp**



**CM203
Vector Class, Wide Hp Range**



**ALLEN-BRADLEY
INDUSTRIAL MOTORS**

Power Range

• Range: 1/4 - 150 Hp

Enclosure

• TENV, TEBC

Base Speeds

• 1200, 1800 rpm

Voltage Ratings

• 230/460/575V AC

Insulation System

• Class F and H Materials

Frame Construction

• Rolled Steel or Cast Iron

Variable Speed Range

• CT 1000:1

Motor Efficiency

• N/A

Encoder Capable

• Yes

Environment

• Industrial IP44

• 1 - 500 Hp

• TENV, TEFC, TEBC

• 1200, 1800 rpm

• 230/460V AC

• Class F and H Materials

• Cast Iron

• CT 4:1, CT 20:1, CT 1000:1,

• N/A

• Yes

• Industrial IP44

• 5 - 1000 Hp

• Various

• 850 - 3550 rpm

• 230/460V AC

• Class H Materials

• Laminated Steel or Aluminum

• CT 1000:1

• N/A

• Yes

• IP23, IP44

NOTE: Motor colors vary.

**CM112, CM212
Harsh Duty, IEEE-841**



- 1 - 350 Hp
- TENV, TEFC
- 900, 1200, 1800, 3600 rpm
- 460/575V AC
- Class F and H materials
- Cast Iron
- CT 2:1, CT 4:1, CT 10:1, CT 20:1, CT 1000:1, VT 10:1, Sine Wave
- NEMA Premium
- Contact Industrial Motors Hotline for compatible motors (1.262.512.8800)
- Harsh, Wet, IP55, IP56

**CM115
Washdown, Totally Enclosed**



- 1/2 - 20 Hp
- TENV, TEFC
- 1200, 1800, 3600 rpm
- 208/230/460V AC
- Class F and H materials
- Rolled Steel
- CT 4:1, CT 20:1, CT 1000:1, VT 10:1, Sine Wave
- Energy Efficient, NEMA Premium
- See Website for Compatible Motors (www.ab.com/drives/motors)
- Wet, Food Processing, IP55

**CM118
Washdown, Stainless Steel**



- 1/2 - 15 Hp
- TENV, TEFC
- 1800, 3600 rpm
- 208/230/460V AC
- Class F Materials
- Stainless Steel
- CT 4:1, CT 20:1, VT 10:1, Sine Wave
- Energy Efficient, Premium, NEMA Premium
- No
- Wet, Food Processing, IP55

**CM204
Vector Class, Interior Permanent
Magnet for PowerFlex 755 Drives Only**



- 10 - 1200 Hp
- TEBC, OPG-FV
- 1800 rpm
- 460V AC
- Class H Materials
- Laminated Steel
- CT 1000:1
- Premium
- Required
- IP23, IP44

**CM227
Vector Class, Brake Motor**



- 1 - 20 Hp
- TENV with Brake
- 1800 rpm
- 230/460V AC
- Class F Materials
- Cast Iron
- CT 1000:1
- N/A
- Yes
- Industrial IP44

**CM220
Economical, Totally Enclosed**



- 1/8 - 10 Hp
- TENV, TEFC
- 1800 rpm
- 230/460/575V AC
- Class H Materials
- Rolled Steel
- CT 20:1, CT 1000:1
- Energy Efficient
- No
- Industrial IP44

**CM224
Vector Class, Explosion Proof**



- 1 - 20 Hp
- Totally Closed XP
- 1800 rpm
- 230/460V AC
- Class F Materials
- Cast Iron
- CT 1000:1
- N/A
- Includes Encoder
- See Specification

REFERENCES

Product Selection Toolbox

The Product Selection Toolbox offers a complete suite of programs for product selection and configuration across product lines from project conception through final design. Use this tool to help find which Allen-Bradley motor is best for you. Download the tool at:

www.rockwellautomation.com/en/e-tools

CM203 Motor Wizard

The CM203 AC Motor Selection Wizard is a patented, revolutionary inverter duty motor selection program for Allen-Bradley laminated AC motors. It is designed so that little understanding of motor theory and construction is required. The user can simply provide the desired inputs and receive a customized motor design, drawings and performance curve that matches the application requirements. Download this tool to assist with your motor selection at:

<http://ab.rockwellautomation.com/Motors/CM203-Vector-Duty>

Motor Website

Visit our website to find the latest motors offerings, links to specific motor details and answers to popular questions you may have on Allen-Bradley motors. We also have a handy Energy Savings Payback Analyzer, so you can see your potential energy savings before switching to an Allen-Bradley NEMA premium efficient motor. Visit us at:

<http://ab.rockwellautomation.com/Motors>

CAN'T FIND THE EXACT MOTOR YOU NEED?

Rockwell Automation offers a wide range of Allen-Bradley motors to meet most industrial needs. If you can't find the motor that meets your requirements, contact your local Rockwell Automation Distributor for a quote request. We can review your needs and help find a solution in a modified stock design or a custom motor design. We also offer DC, and non-standard voltage motors and additional options. Make Rockwell Automation your one-stop shop for drives and motors by contacting a Rockwell Automation Distributor today.

CONTACT US:

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