

Branch Motor Control & Protection

Smart industrial control



Allen-Bradley

by ROCKWELL AUTOMATION

A close-up, vertical shot of industrial machinery, likely a CNC machine or a similar precision manufacturing tool. The image shows various metal components, including a vertical column, a horizontal arm, and a tool head. The lighting is soft, highlighting the metallic textures and the precision of the equipment.

Simple. Expandable. Certified.

Does applying industrial control to your system seem like a daunting task?

With over 50% of the work in a standard production application completed by electric motors, it is paramount to the success of your system to properly control and protect your motor equipment.

Our Branch Motor Control & Protection Solutions are specifically designed and tested to make your job easier. With many intelligent components including circuit breakers, contactors, overload relays, and accessories, we deliver a tailored industrial solution to meet your needs today and into the future.



Designed as a system

System is designed and tested to work together with relevant components for your unique applications



Standards and certifications

Tested and certified to global standards to meet your application requirements



Selection

One place to find motor starting, resistive and isolation solutions in sizes from 5...2650 Amps



Worldwide sales and support

Sold and serviced in over 100 countries around the globe

Designed to work together

A variety of combinations and accessories to suit your unique application

Motor starter solutions

With overload protection built into motor protection circuit breakers, you can save cost and space in your panel.



Three-component starters

With a separate overload relay, you can tailor the level of motor protection you want.



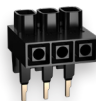
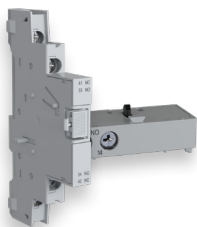
Mounting systems

Keep your panels clean, organized and compact with our flexible mounting solutions.



Accessories

Our extensive and fully integrated line of accessories provide flexible, modular control.



Extended ratings, high performance

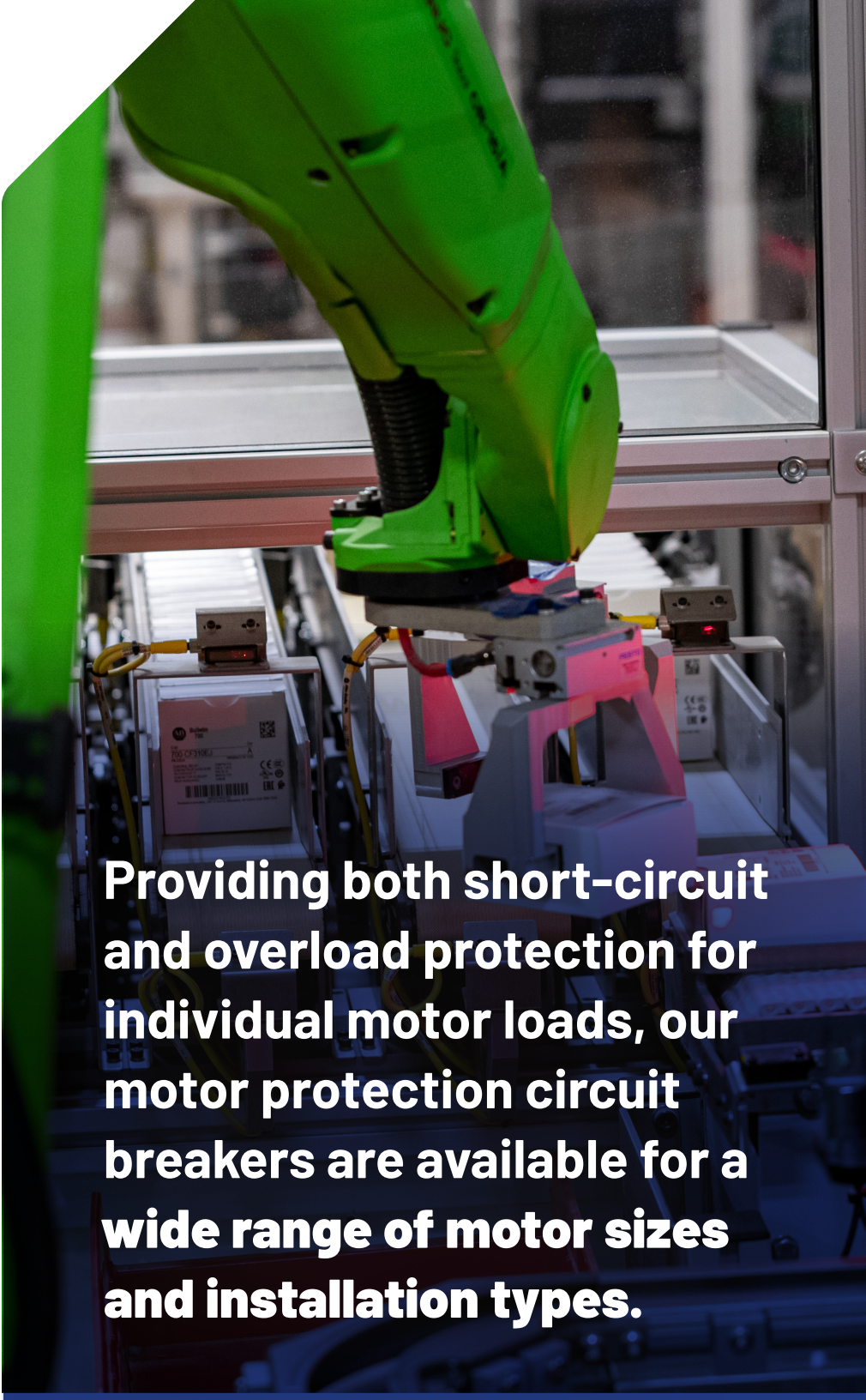
We offer two tiers of motor protection circuit breakers and motor circuit protectors.

The Bulletin 140MP line of motor protection circuit breakers offer the most commonly used features, cost-effectively. Bulletin 140MP provide magnetic short circuit and thermal overload protection up to 32 A.

Bulletin 140MT products offer enhanced ratings that enable assembled starters to be applied without additional branch circuit protection. Tap conductor protection ratings can save you money by allowing the use of smaller wires in group motor installations. Bulletin 140MT products are available as motor circuit protectors for three-component starters and motor protection circuit breakers for two- component starters.

Special versions of 140MT meet specific application requirements. Examples include the 140MT-D9V for application at the output of a variable-frequency drive (VFD) in multi-motor applications and the 140MT-D9T, suitable for protection of high efficiency motors with high inrush.

All Bulletin 140 products are available with connectors to enable direct wiring to Bulletin 100-K/C/E contactors.

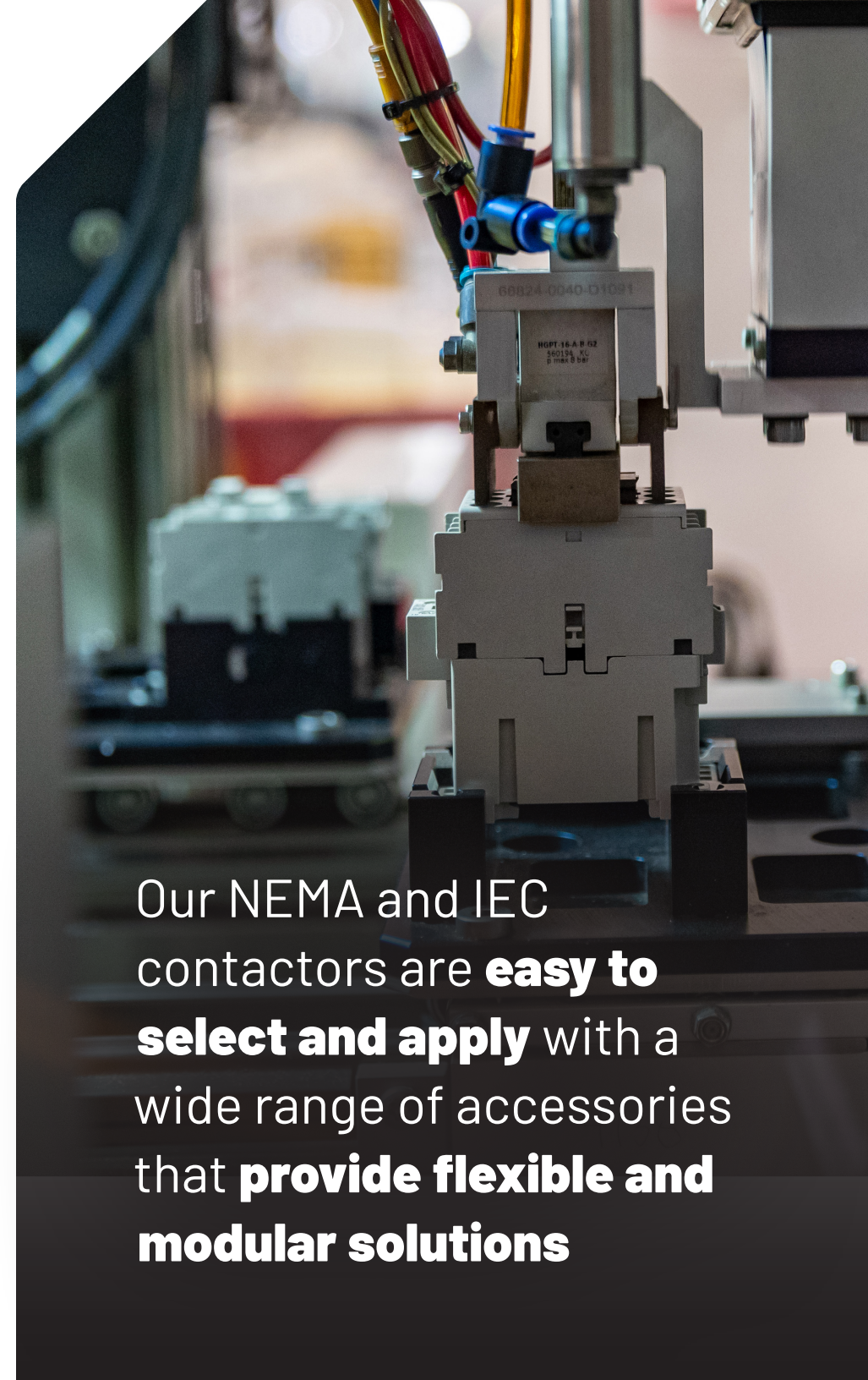


**Providing both short-circuit
and overload protection for
individual motor loads, our
motor protection circuit
breakers are available for a
wide range of motor sizes
and installation types.**

Flexible and easy to apply

With a strong support network, extensive selection and design tools, and a wide-range of accessories, we're here to help you find the right contactor for your application.

We provide a complete line of NEMA and IEC rated contactors, from NEMA sizes 00 through 8 or IEC sizes from 5 to 2650 Amps. Contactors are available as stand-alone products, or can be combined with compatible circuit breakers and overload relays to provide two- or three- component starting systems. A full range of accessories helps solve common, and not so common, problems. Many options can be obtained as pre-configured open or enclosed starters with easy to wire color coded connections.



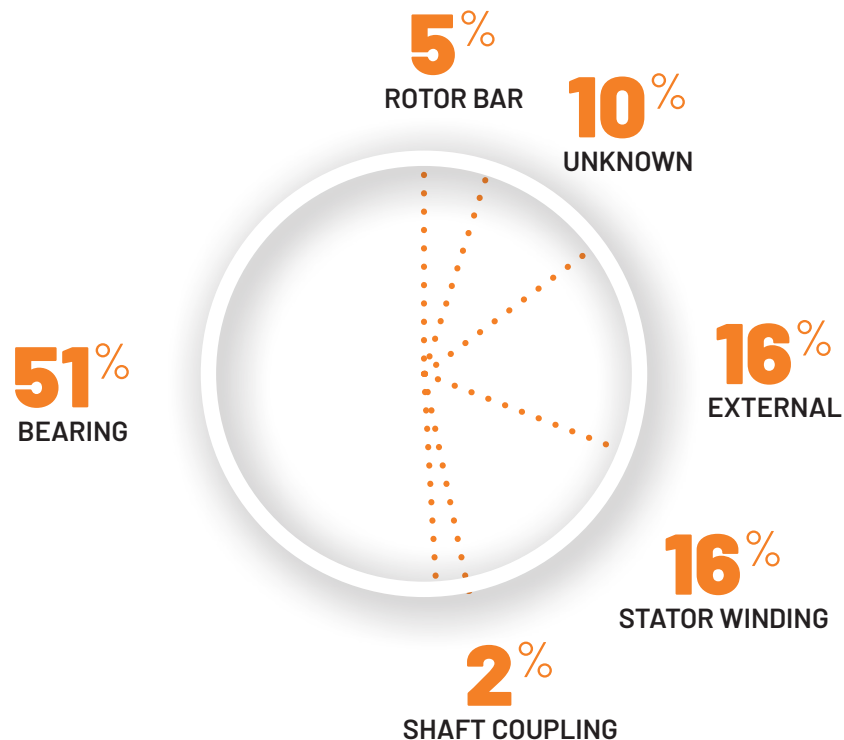
Our NEMA and IEC contactors are **easy to select and apply** with a wide range of accessories that **provide flexible and modular solutions**

Safeguarding solutions

The Allen-Bradley line of motor protection devices encompasses a range from simple, single purpose protection to the newer overload technologies featuring diagnostics and Logix integration.

Electric motors are the backbone of today's modern industry providing the mechanical energy needed for most manufacturing processes. Push too hard, too often, and there is the potential for costly equipment damage or unforeseen downtime.

Causes of motor failures



75% of motor failures can be prevented by appropriate protection measures

Source — IEEE Petro-Chemical Paper PCIC-94-01.



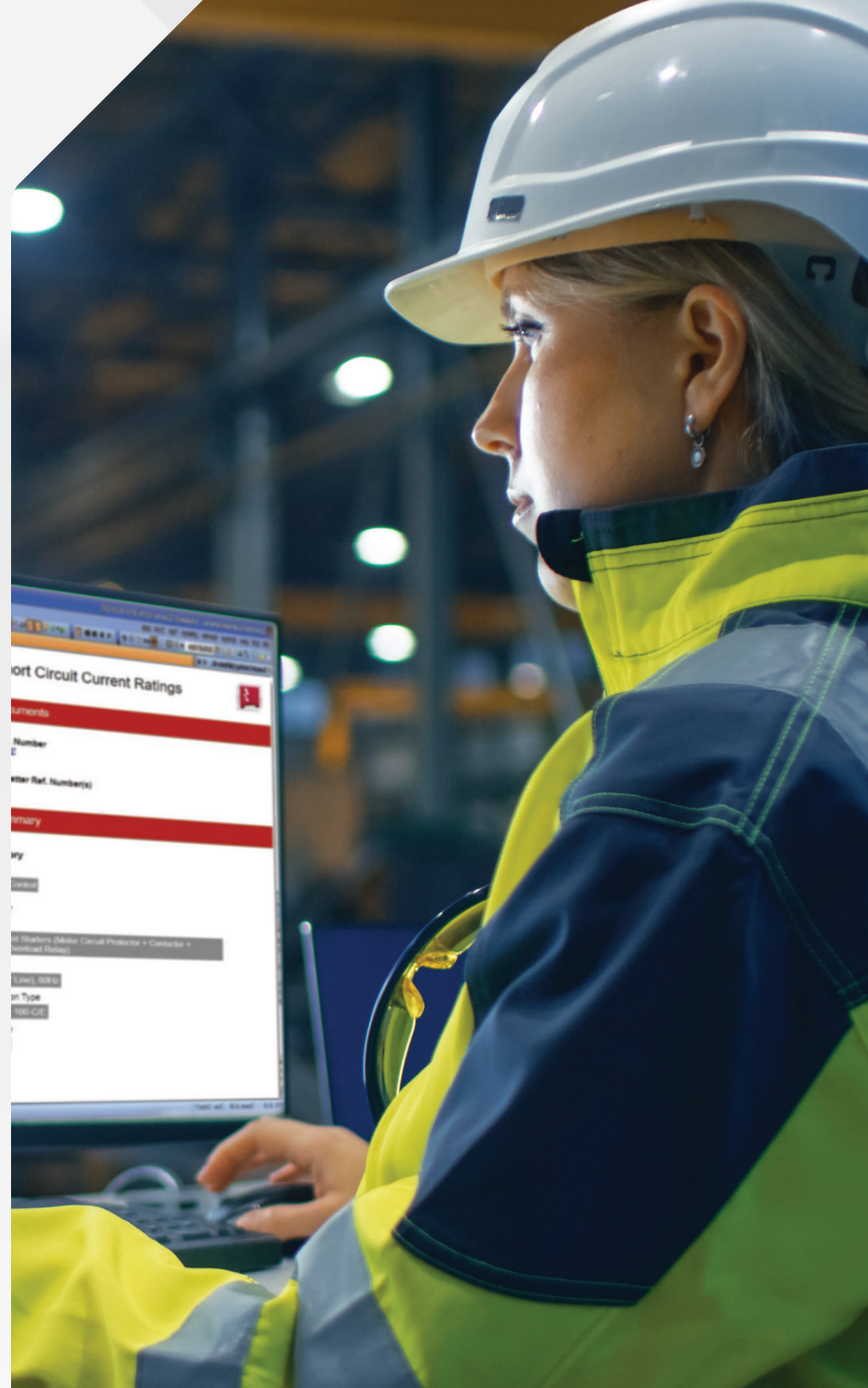
Certified compliance

Rockwell Automation offers an exclusive on-line Global Short-Circuit Current Rating (SCCR) tool

As a machine-builder, documenting your SCCR rating is now easier than ever.

This resource enables users to select the specific combinations of Allen-Bradley components they are applying — circuit breakers, contactors, overload relays — and obtain a test summary letter documenting the compliance of their specific products to IEC and UL standards. This documentation is based on coordinated testing conducted in Rockwell Automation accredited test facilities and witnessed by Underwriters Laboratories.

Access the tool at **rok.auto/sccr**



Product range

Motor protection circuit breakers and protectors



**Bulletin
140MP-A**

**Bulletin
140MT-C**

**Bulletin
140MT-D**

**Bulletin
140M-F**

Frame size		C-Frame	D-Frame	F-Frame
Max. current I_e	32 A	32 A	40 A	45 A
Current rating	0.1...32 A	0.1...32 A	0.4...40 A	6.3...45 A
Short-circuit protection	●	●	●	●
Standard magnetic trip	●	●	140MT-D9E	140MT-F8E
High magnetic trip			140MT-D9T	140MT-F8T
Magnetic-only trip (motor circuit protection [MCP])			140MT-D9N	140MT-F8N
Overload protection	●	●	●	●
Trip class	10 A	10	10	10
Phase loss sensitivity	●	●	●	●
Variable-frequency drive (VFD) downstream compatible			140MT-D9V...	●
Tap conductor protection		●	●	●
Manual self-protected combination motor controller (Type E)		●	●	●
UL 60947-4-1, CSA C22.2, No. 60947-4-1 ⁽¹⁾	●	●	●	●
IEC/EN 60947-2, IEC/EN 60947-4-1	●	●	●	●
CE	●	●	●	●
ATEX		●	● ⁽²⁾	
IECEX		●	● ⁽²⁾	
EAC	●	●	●	●
CCC	●	●	●	●

⁽¹⁾ Consult publication [140-TD006](#) for additional information | ⁽²⁾ Does not apply to Cat. No. 140MT-D9N...devices.

Product range

Global contactors



**Bulletin
100-K**

**Bulletin
100-C**

**Bulletin
100-E**

Miniature

Component

Architecture

Breadth of line

5...12 A

9...97 A

9...2650 A

Minimize power supply requirements: Inrush VA reduced by up to 68% and sealed VA by over 75% versus standard, non-electronic coils



Simplified selection with electronic wide-range AC/DC coils



Safety versions available



Same dimensions for AC and DC



12 and 24 V DC



Integrated surge suppressor

Optional

DC coils

AC and DC coils

Reversible coil terminations (line or load side)



No disassembly required

Mechanical interlock eliminates space between contactors for reversing contactors



Optional integrated PLC interface without interposing relays

> 100 Amps

Provides front and side mounting of auxiliary contacts



Optional front mount auxiliary with coil terminals makes it easy to wire three component starters



Optional electronic or pneumatic timing modules (9...97 A)



Compatible with electronic overload relays



Product range

NEMA rated contactors



Bulletin 300

Bulletin 500

	Standard	Energy saving	Traditional
Breadth of line	NEMA sizes 0...3	NEMA sizes 00...8	NEMA sizes 00...5
Space saving	Up to 25% smaller footprint than traditional NEMA		
Energy saving, wide-range coils		●	
Safety versions available		●	
Finger safe	●	●	
Optional integrated PLC interface without interposing relays		NEMA sizes 4...8	
DIN rail mountable	●	Through size 3	
Integrated surge suppression		●	
Meets global standards	●	●	
Mechanical interlock eliminates space between contactors for reversing contactors		●	
Can be inspected and serviced without removing contactor from panel			●
Top-wired option for power connection convenience			●
Field repairable			●
Optional power pole adders for application flexibility			Can be configured with up to 5 poles
Lifetime coil warranty			●

Product range

Overload relays



**Bulletin 193 T/K
Bimetallic**

**Bulletin
193 E100**

**Bulletin
193 E200**

**Bulletin
193 E300**

Overload	●	●	●	●
Phase loss	●	●	●	●
Ground fault		●	●	●
Current imbalance			●	●
Jam		●	●	●
Over/under voltage			●	●
Voltage imbalance			●	●
Over/under power			●	●
% full load amperes		●	●	●
% thermal capacity utilization		●	●	●
Voltage			●	●
Power			●	●
Energy			●	●
DeviceLogix™			●	●



Connect with us.    

rockwellautomation.com — expanding **human possibility**[®]

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