

140ME Motor Protective Switching Device

Luca Tarsitano

Global Product Manager



Allen-Bradley

by ROCKWELL AUTOMATION



Performance | Scalability | Optimization

Compact switching
devices for precise
motor protection

- The 140ME Motor Protective Switching Device is designed to safeguard electric motors against overloads, short circuits and phase failures.

A smart, connected protective solution for industrial applications

140ME Motor Protective Switching Device - Enhancing operational efficiency and reliability



Enhanced
integration
capabilities

Elevated
quality &
efficiency

Improved
uptime &
supportability



| Agenda

01

Overview of 140ME Motor Protective Switching Device

02

Comprehensive Features

03

Next-Generation Performance

04

Additional Resources



Overview of 140ME Motor Protective Switching Device



| The 140ME Motor Protective Switching Device

Designed to safeguard electric motors

With user-friendly interfaces and integration capabilities, the 140ME is ideal for a wide range of industrial applications, delivering efficient performance and minimizing downtime in critical systems.

The 140ME is available in two versions:

- 140ME-D9EE (Basic)
- 140ME-D9EF (Advanced)



140ME-D9EE



140ME-D9EF

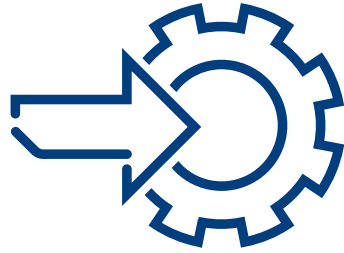


| Benefits of the 140ME



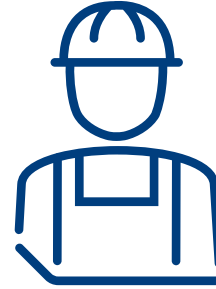
Cost savings

- Reduces downtime and maintenance costs through proactive protection.



Increased efficiency

- Optimizes motor performance, leading to better energy management.



Enhanced safety

- Helps protect equipment and personnel from electrical hazards.



Regulatory compliance

- Helps meet industry standards and regulations.



Comprehensive Features



Comprehensive features

Technical outcomes

Advanced Protection Features

- Overload
- Short-circuit
- Phase loss

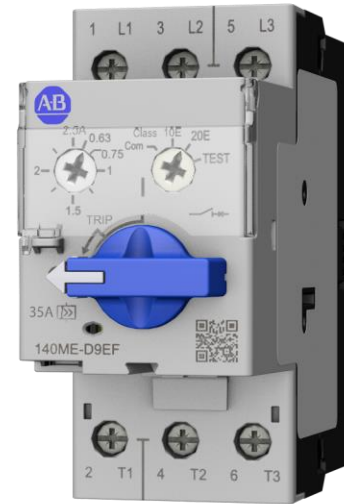


Monitoring Capabilities

- Enables real-time diagnostics for predictive maintenance and reduced failure rates

User-Friendly Interface

- Simplified setup and operation with robust software tools



Seamless Integration

- Compatible with various motor types and automation systems for easy implementation



Next-Generation Performance



140ME-D9EE



“Basic” Version Attributes

- Protection and control functions
 - Magnetic short-circuit protection
 - Electronic overload protection
 - Switching (Manual)
- Up to 40A
- Wider FLA setting range (4:1) compared to 140MT D Frame ($\approx 1.6:1$)
- Selectable Trip Class 10 and 20
- Common electromechanical accessories with 140MT

VS

140ME-D9EF



“Advanced” Version Attributes

- Same protection and control functions as 140ME D frame “Basic”
- Up to 40A
- Wider FLA setting range (4:1) compared to 140MT D Frame ($\approx 1.6:1$)
- Selectable Trip Class 10 and 20
- Common electromechanical accessories with 140MT
- **Additional Advanced Functionalities:**
 - Connection to EtherNet/IP In-cabinet Solution
 - Connection to the NEW Overload Relay Functional Module
 - Common electronic accessories with E100



| 140ME product line accessories

Maximize panel space with new modules

- The 140ME-D9EF can connect with an OLRF Module, which, when paired with a 100-C Contactor, enables the advanced capability of a three-component starter within a two-component setup.
- In the event of an overload, the OLRF will disable the Contactor rather than causing the 140ME to trip.

Extended Protection Functions:

- Auto/Manual reset
- Trip indication
- Local and remote reset
- Compatible with Remote Reset (ERID)
- Jam Protection
- Contactor weld indication





| Design for the future of Branch Motor Control

140MT, 100-E and E100 components are already compatible with EtherNet/IP In-cabinet Solution

Traditional Motor Control



EtherNet/IP In-cabinet Solution

with 100/104-E-INT-X Communication Interface Module

2-Component Starters

- SCCR
- Fully tested combination ratings

- 140MT/MP

range of accessories for ease of installation & operation; multiple combinations of auxiliaries and shunt trips/undervoltage release; class 10 overload protection

- 100-E

reduce heat with high-efficiency, low-power coil options; easy direct integration to PLC I/O modules



3-Component Starters

- E100

Selectable trip classes;
Electronic thermal protection



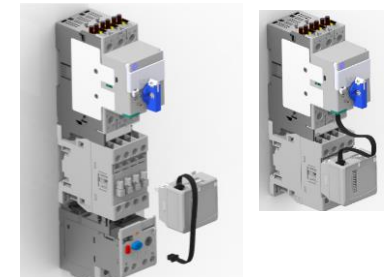
Simplify panel design

- Reduce control wiring
replace point-to-point hardwiring with **one** flat media connection
- Simplify panel design and footprint
minimize I/O modules, terminal blocks and control wiring
- Decrease installation, testing and commissioning time
standardize network connections, configure parameters and access lifespan data within FactoryTalk® Design Studio™ and Studio 5000®



Unlock motor starter data (140ME & E100)

- Access real-time motor starter data directly over EtherNet/IP. *Data is no longer reserved for your critical high-value assets.*
- Use data for dashboards and maintenance
centralize monitoring and empower operations with better information to resolve trouble.
- Improve troubleshooting and reduce downtime
with clear, device-level diagnostics and alarms.
- Support condition-based maintenance
To drive scheduling and work orders with operating data



Identifying faults

Know what failed. Know where to start.

Specific faults can drive focused action



Predictive maintenance data is intrinsic



What becomes visible?

Fault and warning

Overload, phase loss, jam, underload trip conditions and warning states

Motor condition and operation

Thermal capacity used, average FLA%, average current and phase currents

Maintenance and lifecycle indicators

Cycles and operating hours alarms + remote reset



Gain deep, actionable visibility into faults, motor health and maintenance needs, helping you know exactly what failed and where to start.



Additional Resources

Looking for more?

Check out the following resources to learn more about the 140ME.

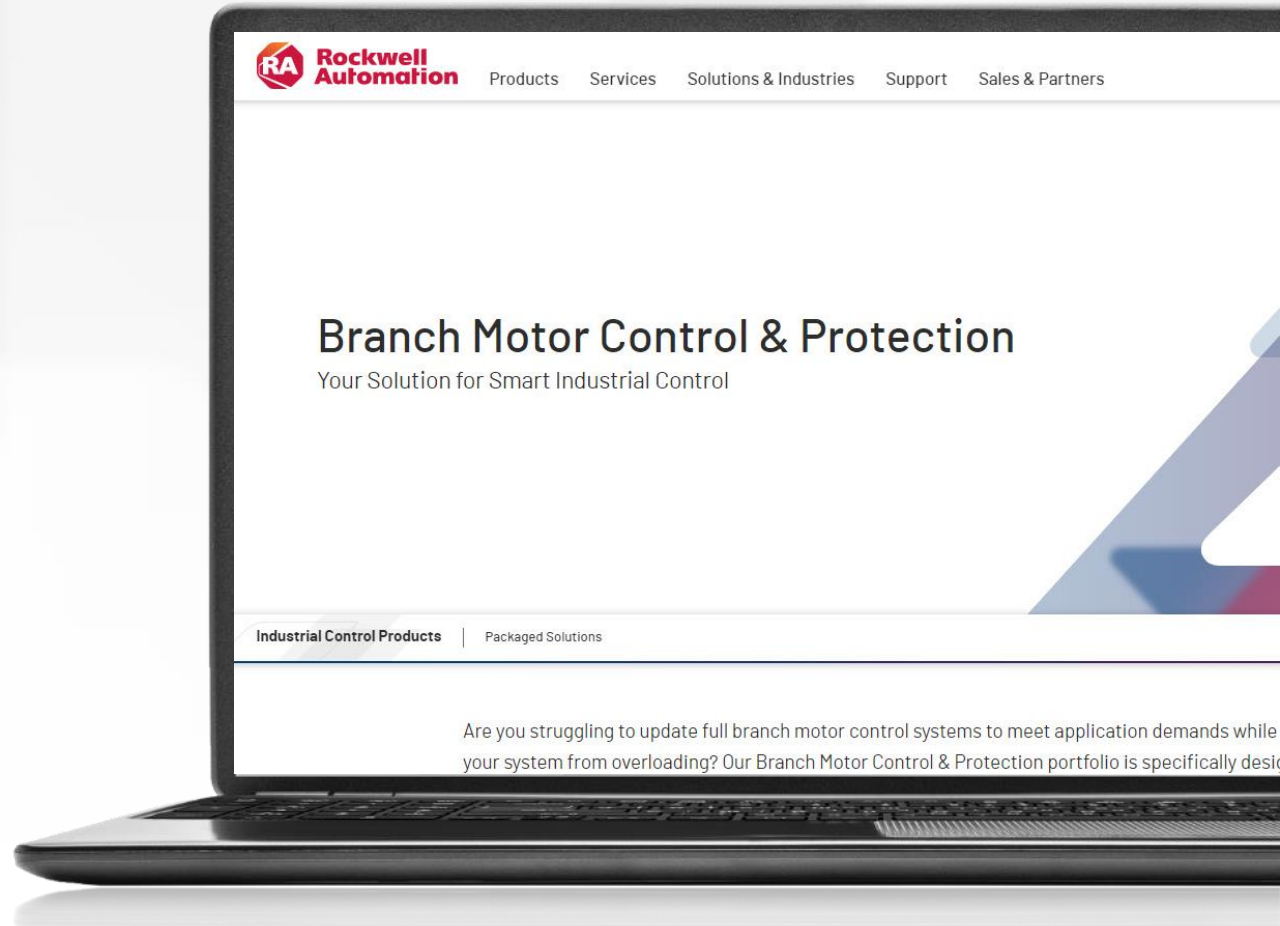


[140ME Overview Video](#)



[140ME User Manual](#)

Check out the [Rockwell Automation website](#) to see how the 140ME seamlessly integrates with the Branch Motor Control & Protection Portfolio!





Allen-Bradley

by ROCKWELL AUTOMATION

Thank you

www.rockwellautomation.com

