



## Enclosed Compact Combination Starters

Allen-Bradley Replacement



**Rockwell  
Automation**

Bringing Together Leading Brands in Industrial Automation

# Compact Combination Starters

## Lower Installation Costs

- Compact size saves 50 to 75% mounting space vs. traditional combination starters and is easy to handle and mount, even for one person
- Bulletin 140M provides adjustable overload protection as well as short circuit protection – there are no heater elements to select and buy

## Reduced Maintenance Costs

- Type 2 coordination reduces costly maintenance after a short circuit condition
- Limited spares required with only two major components in each starter assembly

**Traditional  
NEMA  
Combination  
Starter  
10"x24"  
240 Sq. In.**

*10 Hp, 480V Non-reversing Combination Starters*

**Traditional  
IEC  
Combination  
Starter  
8"x14"  
112 Sq. In.**

**Compact IEC  
Combination  
Starter  
8"x7"  
56 Sq. In.**



# High Performance in a Small Package

## Bulletin 103H Non-Reversing starters include:

- Bulletin 140M Motor Protector
- Bulletin 100C Contactor
- Type 3/4/12 Enclosure
- Bulletin 140M External Handle
- Options include:
  - Auxiliary and trip contacts
  - Control transformer
  - Push buttons, selector switches, pilot lights

## Bulletin 107H Reversing starters include:

- Bulletin 140M Motor Protector
- Bulletin 104C Reversing Contactor
- Type 3/4/12 Enclosure
- Bulletin 140M External Handle
- Options include:
  - Auxiliary and trip contacts
  - Control transformer
  - Push buttons, selector switches, pilot lights

*The "B" size box accommodates:*

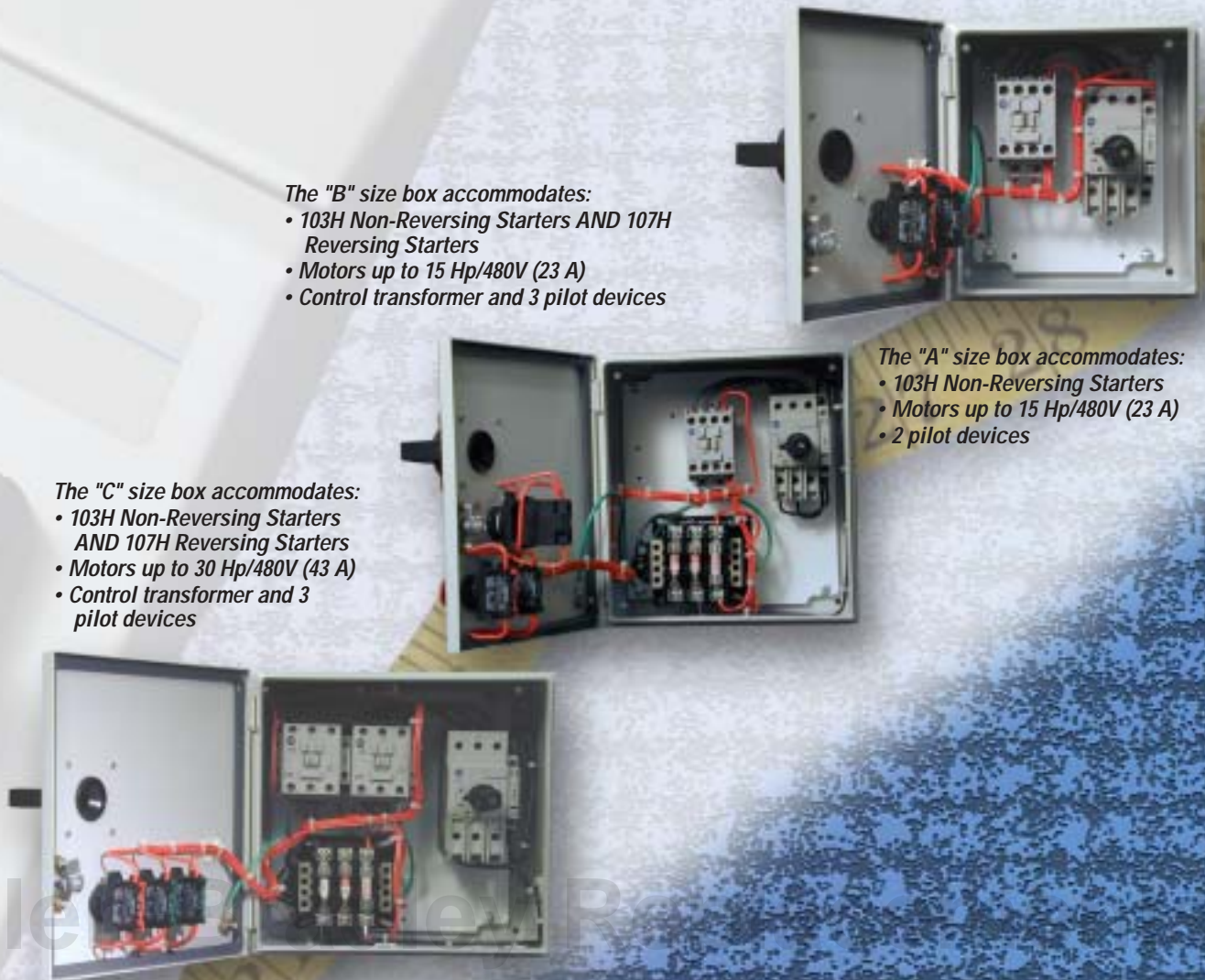
- 103H Non-Reversing Starters AND 107H Reversing Starters
- Motors up to 15 Hp/480V (23 A)
- Control transformer and 3 pilot devices

*The "A" size box accommodates:*

- 103H Non-Reversing Starters
- Motors up to 15 Hp/480V (23 A)
- 2 pilot devices

*The "C" size box accommodates:*

- 103H Non-Reversing Starters AND 107H Reversing Starters
- Motors up to 30 Hp/480V (43 A)
- Control transformer and 3 pilot devices





# Manual Combination Starters

## Bulletin 140M Manual Combination starters include:

- Bulletin 140M Motor Protector
- Type 3/4/12 Enclosure
- Bulletin 140M External Handle
- Options include:
  - Auxiliary and trip contacts
  - Undervoltage or shunt trip
- Pilot light(s)

### *The "A" size box accommodates:*

- **140M Manual, Self-Protected Combination Starters**
- **Motors up to 30 Hp/480V (43 A)**
- **2 pilot lights**

## Bulletin 140M provides provides complete motor branch circuit requirements

- Motor circuit disconnecting means
- Short circuit protection
- Overload protection
- Manual motor switching



[www.rockwellautomation.com](http://www.rockwellautomation.com)

### Corporate Headquarters

Rockwell Automation, 777 East Wisconsin Avenue, Suite 1400, Milwaukee, WI, 53204-5302 USA, Tel: (1) 414.212.5200, Fax: (1) 414.212.5201

### Headquarters for Allen-Bradley Products, Rockwell Software Products and Global Manufacturing Solutions

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444

Europe: Rockwell Automation SA/NV, Vorstlaan/Boulevard du Souverain 36-BP 3A/B, 1170 Brussels, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640

Asia Pacific: Rockwell Automation, 27/F Citicorp Centre, 18 Whitfield Road, Causeway Bay, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

### Headquarters for Dodge and Reliance Electric Products

Americas: Rockwell Automation, 6040 Ponders Court, Greenville, SC 29615-4617 USA, Tel: (1) 864.297.4800, Fax: (1) 864.281.2433

Europe: Rockwell Automation, Brühlstraße 22, D-74834 Elztal-Dallau, Germany, Tel: (49) 6261 9410, Fax: (49) 6261 17741

Asia Pacific: Rockwell Automation, 55 Newton Road, #11-01/02 Revenue House, Singapore 307987, Tel: (65) 351 6723, Fax: (65) 355 1733