

## Bulletin 592 E3 And E3 Plus

### Bulletin 592

#### Bulletin 592-EC1:

- 0.4...90 A current range
- DeviceNet Ready (ODVA Conformance tested)
- LED indicators and Test/Reset button
- Adjustable trip class 5...30
- Ambient temperature compensation
- True RMS current sensing (20...250 Hz)
- Protection for single- and three-phase motors
- Integrated I/O (2 in/1 out)
- Programmable trip and warning settings
- Diagnostic functions (history of last 5 trips)

#### Bulletin 592-EC2 & -EC3 also include:

- Integrated I/O (4 in/2 out)
- Ground fault protection
- PTC thermistor monitoring
- DeviceLogix component technology (series B & C)

#### Bulletin 592-EC5 also includes:

- Integrated I/O (6 in/2 out)
- Ground fault protection
- DeviceLogix component technology (series C)
- Power monitoring
- Voltage protection



### Description

The E3 Overload Relay is a multi-function electronic microprocessor-based electronic overload relay for the protection of single- or three-phase squirrel cage induction motors. In addition to providing ambient compensated overload protection, the E3 Overload Relay also includes advanced features such as: warning diagnostics, variable frequency and true RMS current sensing, I/O capabilities, and direct DeviceNet connectivity. The E3 Plus Overload Relay offers the added features of zero sequence (core balance) ground fault protection, PTC thermistor input, and additional I/O capabilities.

**592 – EC1    B    T**  
                   a        b        c

a	
Type	
Code	Description
EC1	E3
EC2	E3 Plus
EC3	
EC5	

b	
Adjustment Range [A]	
Code	Description
P	0.4...2.0
A	1...5
B	3...15
C	5...25
D	9...45
E	18...90
F	28...140
H	60...302
K	125...630

c	
Bulletin 500 Contactor Size	
Code	Description
T	Size 00
C	Size 0...2
D	Size 3
E	Size 4
F	Size 5
G	Size 6

Your order must include 1) the Cat. No. of the overload relay selected, and 2) if required, Cat. No. of any accessories.

**Bulletin 592-EC1 Electronic Motor Protection Relays — Direct Contactor Mount**

- 2 inputs
- 1 output

For Installation on NEMA Starter Size	Adjustment Range [A]‡	Cat. No.
00	0.4...2.0	592-EC1PT
	1...5	592-EC1AT
	3...15	592-EC1BT
0...2	0.4...2.0	592-EC1PC
	1...5	592-EC1AC
	3...15	592-EC1BC
	5...25	592-EC1CC
	9...45	592-EC1DC
3	9...45	592-EC1DD
	18...90	592-EC1ED
4	28...140	592-EC1FE
5	60...302	592-EC1HF
6	125...630	592-EC1KG

‡ For applications greater than 300 A, see the Bulletin 193 panel mount devices for use with external current transformers.

**Bulletin 592-EC2, -EC3, and -EC5 Electronic Motor Protection Relays — Direct Contactor Mount**

- 4 inputs (EC5 - 6 inputs)
- 2 outputs
- Ground fault sensing
- PTC thermistor input (EC2 & EC3 only)
- DeviceLogix (series B & C)

For Installation on NEMA Starter Size	Adjustment Range [A]‡	Cat. No.		
00	0.4...2.0	592-EC2PT	—	—
	1...5	592-EC2AT	—	—
	3...15	592-EC2BT	—	—
0...2	0.4...2.0	592-EC2PC	592-EC3PC	592-EC5PC
	1...5	592-EC2AC	592-EC3AC	592-EC5AC
	3...15	592-EC2BC	592-EC3BC	592-EC5BC
	5...25	592-EC2CC	592-EC3CC	592-EC5CC
	9...45	592-EC2DC	592-EC3DC	592-EC5DC
3	9...45	592-EC2DD	—	—
	18...90	592-EC2ED	592-EC3ED	592-EC5ED
4	28...140	—	592-EC3FE	592-EC5FE
5	60...302	—	592-EC3HF	592-EC5HF
6	125...630	—	592-EC3KG	592-EC5KG

‡ For applications greater than 300 A, see the Bulletin 193 panel mount devices for use with external current transformers.

### **Bulletin 592-EC5 Electronic Motor Protection Relays with Voltage Monitoring — Direct Contactor Mount**

- 6 Inputs/2 Outputs
- Ground Fault Sensing
- Voltage Monitoring Module

For Installation on NEMA Starter Size	Adjustment Range ‡	Cat. No.
0...2	0.4...2.0	592-EC5PC
	1...5	592-EC5AC
	3...15	592-EC5BC
	5...25	592-EC5CC
	9...45	592-EC5DC
3	18...90	592-EC5ED
4	28...140	592-EC5FE
5	60...302	592-EC5HF
	125...630	592-EC5KG

‡ For applications greater than 300 A, see the Bulletin 193 panel mount devices for use with external current transformers.