

E300/E200 Electronic Overload Relay Specifications

Bulletin Numbers 193, 592

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Summary

The E300™ and E200™ Electronic Overload Relays are the newest technology for overload protection. The modular design, communication options, diagnostic information, simplified wiring, and integration into Logix technology make it the ideal overload for motor control applications in an automation system.

The E300/E200 relay consists of three modules: sensing, control, and communications. You have choices in each of the three with additional accessories to tailor the electronic overload for the exact needs of your application. The communication module determines whether the complete assembled device is an E300 or an E200 overload relay.

Description	Mounting Options	Current Range [A]	For Use With	Cat. No.	
Voltage/Current/Ground Fault	IEC Contactors	0.5...30	100-C09...C23	193-ESM-VIG-30A-C23	
			100-C30...C55	193-ESM-VIG-30A-C55	
		6...60	100-C30...C55	193-ESM-VIG-60A-C55	
		10...100	100-C60...100-C97	193-ESM-VIG-100A-C97	
		20...200	100-D115...100-D180	193-ESM-VIG-200A-D180	
			100-E116...100-E146	193-ESM-VIG-200A-E146	
	100-E190...100-E205		193-ESM-VIG-200A-E205		
	DIN Rail / Panel Mount Power Terminals	0.5...30	All contactors	193-ESM-VIG-30A-T	
		6...60		193-ESM-VIG-60A-T	
		10...100		193-ESM-VIG-100A-T	
		20...200		193-ESM-VIG-200A-T	
	DIN Rail / Panel Mount Power Terminals Directly replaces 193-ECPM_	0.5...30		193-ESM-VIG-30A-E3T	
		6...60		193-ESM-VIG-60A-E3T	
		10...100		193-ESM-VIG-100A-E3T	
	DIN Rail / Panel Mount Pass-thru	0.5...30		External current and potential transformers	193-ESM-VIG-30A-CT
	Bulletin 500 NEMA Contactors	0.5...30		NEMA Size 0...2	592-ESM-VIG-30A-S2
		6...60			592-ESM-VIG-60A-S2
		10...100	NEMA Size 3	592-ESM-VIG-100A-S3	
		20...200	NEMA Size 4	592-ESM-VIG-200A-S4	
	Bulletin 300 NEMA Contactors	0.5...30	300-AO_ Series C, NEMA Size 0	193-ESM-VIG-30A-C23	
			300-AO_ Series B, NEMA Size 0 300-BO_ Series B, NEMA Size 1	193-ESM-VIG-30A-C55	
		6...60	300-CO_ Series C, NEMA Size 2	193-ESM-VIG-60A-C55	
		10...100	300-CO_ Series B, NEMA Size 2 300-DO_ Series D, NEMA Size 3	193-ESM-VIG-100A-C97	
		20...200	300-DO_ Series C, NEMA Size 3 300-EO_ Series B/C, NEMA Size 4	193-ESM-VIG-200A-D180	
N/A		300-FO_ Series A/B/C, NEMA Size 5	193-ESM-VIG-30A-T ⁽¹⁾		

(1) Requires 193-CT-_-300A external CT kit.

Control Modules

Description	No. of Inputs/Outputs	Rated Control Voltage [V]	Cat. No.
I/O Module	6 in/3 out	24V DC	193-EIO-63-24D
	2 in/2 out		193-EIO-22-24D
	4 in/3 out	110...120V AC, 50/60 Hz	193-EIO-43-120
	2 in/2 out		193-EIO-22-120
	4 in/3 out	220...240V AC, 50/60 Hz	193-EIO-43-240
	2 in/2 out		193-EIO-22-240
I/O and Protection Module Thermistor (PTC) and External Ground Fault Current ⁽¹⁾	4 in/2 out	24V DC	193-EIOGP-42-24D
	2 in/2 out	110...120V AC, 50/60 Hz	193-EIOGP-22-120
	2 in/2 out	220...240V AC, 50/60 Hz	193-EIOGP-22-240

(1) Requires Core Balanced Ground Fault Sensor Cat. No. 193-CBCT_.

Communication Modules

Description	Cat. No.
EtherNet/IP	193-ECM-ETR
DeviceNet	193-ECM-DNT
Parameter Configuration Module (E200)	193-ECM-PCM

Description		For Use With	Pkg. Qty.	Cat. No.
Panel Mount Screw Adapters		193-ESM-I-30A-T	1	140M-C-N45 ⁽²⁾
		193-ESM-I-60A-T		
		193-ESM-IG-30A-T		
		193-ESM-IG-60A-T		
		193-ESM-VIG-30A-T		
		193-ESM-VIG-60A-T		
		193-ESM-I-30A-P		
		193-ESM-I-60A-P		
		193-ESM-IG-30A-P		
		193-ESM-IG-60A-P		
		193-ESM-VIG-30A-CT		
		193-ESM-I-100A-T		193-ESM-SA-100 ⁽³⁾
		193-ESM-IG-100A-T		
		193-ESM-VIG-100A-T		
		193-ESM-I-100A-P		
193-ESM-IG-100A-P				
External Current Transformers	CE Certified	Current Ratio: 300:5 A	3	193-CT-CE-300A
		Current Ratio: 400:5 A		193-CT-CE-400A
	UL Certified	Current Ratio: 300:5 A		193-CT-UL-300A
		Current Ratio: 600:5 A		193-CT-UL-600A

- (1) Supplied with 20 cm expansion bus cable and connectors.
- (2) Sold in multiples of 10. Order quantity of 10 to receive a package of 10 pieces.
- (3) Sold in multiples of 10. Order quantity of 1 to receive a package of 10 pieces.

Description		For Use With	Cat. No.
Load Side Terminal Cover		193-ESM-I-200A-D180	193-ESM-TCT-200
		193-ESM-I-200A-T	
		193-ESM-I-200A-E146	
		193-ESM-I-200A-E205	
		193-ESM-IG-200A-D180	
		193-ESM-IG-200A-T	
		193-ESM-IG-200A-E146	
		193-ESM-IG-200A-E205	
		193-ESM-VIG-200A-D180	
		193-ESM-VIG-200A-T	
		193-ESM-VIG-200A-E146	
		193-ESM-VIG-200A-E205	
Contactor Terminal Cover		193-ESM-I-200A-D180	193-ESM-TC-D180
		193-ESM-IG-200A-D180	
		193-ESM-VIG-200A-D180	
Line Side Terminal Cover		193-ESM-I-200A-T	193-ESM-TCT-200
		193-ESM-IG-200A-T	
		193-ESM-VIG-200A-T	