

NEC 409

Short circuit current ratings

of industrial control panels
incorporating combination motor
controller components



Glossary

Tabular information

The following statements explain tabular information:

- I. Combination Type / ID Number** - The letter designating the construction type of the combination motor controller as defined in UL508, Standard for Industrial Control Equipment comprised of specific components are described below:
- A** Type A combination motor controller consisting of a disconnect switch, fuses, motor controller and overload relay
 - C** Type C combination motor controller consisting of Inverse time circuit breaker, motor controller and overload relay
 - D** Type D combination motor controller consisting of instantaneous trip circuit breaker, motor controller and overload relay
 - E** Type E (self-protected) combination motor controller consisting of manual self-protected combination motor controller and motor controller
 - F** Type F combination motor controller consisting of manual self-protected combination motor controller and motor controller
- ID Number** - The identification number is assigned as a reference by the submitter for each combination motor controller construction or rating.

II. Individual Component Information - Identification of all components of a combination motor controller.

Component Type - Identifies each type of component provided in combination motor controller:

CB Listed Inverse - time circuit breaker

DS Listed or Recognized Disconnect switch or Listed Molded-case Switch

F - Listed Fuses

FH - Discrete Fuseholder

ICB - Recognized Instantaneous trip circuit breaker

MC - Listed or Recognized Motor Controller

MSP - Listed Manual Self-Protected combination motor controller

OLR - Listed or Recognized Overload Relay

Company Name and Model Number - Identification of the specific component in the combination motor controller.

Individual Component Ratings:

HP - Horsepower rating for component, if provided

kA - marked short circuit current rating (SCCR) on individual component

Max Amps - Maximum ampere rating of individual component

V - voltage rating of individual component

III. Combination Motor Controller Information - Identifies information required to install combination motor controller in end-product:

Combination Ratings - ratings for combination motor controller:

kA - maximum short circuit current rating for combination motor controller

V, Ph - Maximum voltage rating and number of phases for combination motor controller

HP or Maximum Amperes - Maximum horsepower or current at the corresponding voltage rating for combination motor controller

CA - Conditions of Acceptability specific for combination motor controller - See descriptions of specific conditions of use clauses under "Conditions of Acceptability" below.



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Type A

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3600A01	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
		OLR	ABB	TA25DU1.4	5	1.0 - 1.4	600	3
ABB3600A02	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
		OLR	ABB	TA25DU1.8	5	1.3 - 1.8	600	3
ABB3600A03	A	OLR	ABB	TA25DU1.8-20	5	1.3 - 1.8	600	3
		FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
		OLR	ABB	TA25DU2.4	5	1.7 - 2.4	600	3
		OLR	ABB	TA25DU2.4-20	5	1.7 - 2.4	600	3
ABB3600A04	A	OLR	ABB	TA25DU3.1	5	2.2 - 3.1	600	3
		OLR	ABB	TA25DU3.1-20	5	2.2 - 3.1	600	3
		FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
ABB3600A05	A	OLR	ABB	TA25DU3.1	5	2.2 - 3.1	600	3
		OLR	ABB	TA25DU3.1-20	5	2.2 - 3.1	600	3
		FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
		OLR	ABB	TA25DU4.0	5	2.8 - 4.0	600	3
ABB3600A06	A	OLR	ABB	TA25DU4.0-20	5	2.8 - 4.0	600	3
		OLR	ABB	TA25DU5.0	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU5.0-20	5	3.5 - 5.0	600	3
		FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A9	5	9	600	3
		OLR	ABB	TA25DU5.0	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU5.0-20	5	3.5 - 5.0	600	3
ABB3600A06	A	OLR	ABB	TA25DU6.5	5	4.5 - 6.5	600	3
		OLR	ABB	TA25DU6.5-20	5	4.5 - 6.5	600	3
		OLR	ABB	TA25DU8.5	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU8.5-20	5	6.0 - 8.5	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type A

Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
200	600	3	0.75	1.3	1344	1	E193298 V1 S1
200	600	3	1	1.7	1344	1	E193298 V1 S1
200	600	3	1.5	2.4	1344	1	E193298 V1 S1
200	600	3	2	2.7	1344	1	E193298 V1 S1
200	600	3	3	3.9	1344	1	E193298 V1 S1
200	600	3	5	6.1	1344	1	E193298 V1 S1

Short circuit current ratings NEC 409 Type A

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3600A07	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A12	5	11	600	3
		OLR	ABB	TA25DU8.5	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU8.5-20	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU11	5	7.5 - 11.0	600	3
ABB3600A08	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A16	5	17	600	3
		OLR	ABB	TA25DU11	5	7.5 - 11.0	600	3
		OLR	ABB	TA25DU11-20	5	7.5 - 11.0	600	3
		OLR	ABB	TA25DU14	5	10.0 - 14.0	600	3
ABB3600A09	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A16	5	17	600	3
		OLR	ABB	TA25DU19	5	13.0 - 19.0	600	3
		OLR	ABB	TA25DU19-20	5	13.0 - 19.0	600	3
		OLR	ABB	TA25DU14-20	5	10.0 - 14.0	600	3
ABB3600A10	A	FDS	ABB	OS30AJ12	200	30	600	3
		F	ANY	Class J	200	30	600	-
		MC	ABB	A26	5	27	600	3
		OLR	ABB	TA25DU25	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU25-20	5	18.0 - 25.0	600	3
ABB3600A11	A	FDS	ABB	OS60J12	200	60	600	3
		F	ANY	Class J	200	60	600	-
		MC	ABB	A26	5	27	600	3
		OLR	ABB	TA25DU25	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU25-20	5	18.0 - 25.0	600	3
ABB3600A12	A	FDS	ABB	OS60J12	200	60	600	3
		F	ANY	Class J	200	60	600	-
		MC	ABB	A30	5	32	600	3
		OLR	ABB	TA25DU32	5	24.0 - 32.0	600	3
		OLR	ABB	TA25DU32-20	5	24.0 - 32.0	600	3
ABB3600A13	A	FDS	ABB	OS100J03	200	100	600	3
		F	ANY	Class J	200	100	600	-
		MC	ABB	A40	5	41	600	3
		OLR	ABB	TA42DU32	5	22.0 - 32.0	600	3
		OLR	ABB	TA42DU32-20	5	22.0 - 32.0	600	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
ABB3600A13	A	OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type A

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	200	600	3	7.5	9.0	1344	1	E193298 V1 S1
	200	600	3	10	11.0	1344	1	E193298 V1 S1
	200	600	3	15	17.0	1344	1	E193298 V1 S1
	200	600	3	20	22.0	1344	1	E193298 V1 S1
	200	600	3	20	22.0	1344	1	E193298 V1 S1
	200	600	3	25	27.0	1344	1	E193298 V1 S1
	200	600	3	30	32.0	2560	1	E193298 V1 S1

Short circuit current ratings

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Type A

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3600A14	A	FDS	ABB	OS100J03	200	100	600	3
		F	ANY	Class J	200	100	600	-
		MC	ABB	A50	5	52	600	3
		OLR	ABB	TA75DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA75DU42-20	5	29.0 - 42.0	600	3
		OLR	ABB	TA75DU52	5	36.0 - 52.0	600	3
		OLR	ABB	TA75DU52-20	5	36.0 - 52.0	600	3
ABB3600A15	A	FDS	ABB	OS200J03	100	200	600	3
		F	ANY	Class J	200	200	600	-
		MC	ABB	A63	10	77	600	3
		OLR	ABB	TA75DU52	5	36.0 - 52.0	600	3
		OLR	ABB	TA75DU52-20	5	36.0 - 52.0	600	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
ABB3600A16	A	FDS	ABB	OS200J03	100	200	600	3
		F	ANY	Class J	200	200	600	-
		MC	ABB	A75	10	77	600	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3600A17	A	FDS	ABB	OS200J03	100	200	600	3
		F	ANY	Class J	200	200	600	-
		MC	ABB	A110	10	99	600	3
		OLR	ABB	TA110DU90	5	66.0 - 90.0	600	3
ABB3600A18	A	FDS	ABB	OS200J03	100	200	600	3
		F	ANY	Class J	200	200	600	-
		MC	ABB	A145	10	125	600	3
		OLR	ABB	TA200DU135	5	100.0 - 135.0	600	3
ABB3600A19	A	FDS	ABB	OES400JT6	200	400	600	3
		F	ANY	Class J	200	250	600	-
		MC	ABB	A185	10	144	600	3
		OLR	ABB	TA200DU150	5	110.0 - 150.0	600	3
ABB3600A20	A	FDS	ABB	OES400JT6	200	400	600	3
		F	ANY	Class J	200	300	600	-
		MC	ABB	A185	10	144	600	3
		OLR	ABB	TA200DU150	5	110.0 - 150.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type A

Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
200	600	3	40	41.0	2560	1	E193298 V1 S1
100	600	3	50	52.0	2560	1	E193298 V1 S1
100	600	3	60	62.0	2560	1	E193298 V1 S1
100	600	3	75	77.0	4800	1	E193298 V1 S1
100	600	3	125	125.0	4800	1	E193298 V1 S1
200	600	3	125	125.0	4800	1	E193298 V1 S1
200	600	3	125	125.0	4800	1	E193298 V1 S1

Short circuit current ratings

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Type A

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3600A21	A	FDS	ABB	OES400JT6	200	400	600	3
		F	ANY	Class J	200	350	600	-
		MC	ABB	A210	18	192	600	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
ABB3600A22	A	FDS	ABB	OES400JT6	200	400	600	3
		F	ANY	Class J	200	400	600	-
		MC	ABB	A260	18	242	600	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3
ABB3600A23	A	FDS	ABB	OES600JT6	200	600	600	3
		F	ANY	Class J	200	600	600	-
		MC	ABB	A300	18	289	600	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type A

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	200	600	3	150	144.0	9000	1, 6	E193298 V1 S1
	200	600	3	200	192.0	9000	1, 6	E193298 V1 S1
	200	600	3	200	192.0	9000	1, 6	E193298 V1 S1

Short circuit current ratings

NEC 409

Type C

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480C01	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU1.4	5	1.0 - 1.4	600	3
		OLR	ABB	TA25DU1.8	5	1.3 - 1.8	600	3
		OLR	ABB	TA25DU1.8-20	5	1.3 - 1.8	600	3
ABB3480C02	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU2.4	5	1.7 - 2.4	600	3
		OLR	ABB	TA25DU2.4-20	5	1.7 - 2.4	600	3
ABB3480C03	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU3.1	5	2.2 - 3.1	600	3
		OLR	ABB	TA25DU3.1-20	5	2.2 - 3.1	600	3
ABB3480C04	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU4.0	5	2.8 - 4.0	600	3
		OLR	ABB	TA25DU4.0-20	5	2.8 - 4.0	600	3
ABB3480C05	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU5.0	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU5.0-20	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU6.5-20	5	4.5 - 6.5	600	3
		OLR	ABB	TA25DU6.5-20	5	4.5 - 6.5	600	3
ABB3480C06	C	CB	ABB	S3L015TW	65	15	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU8.5	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU8.5-20	5	6.0 - 8.5	600	3
ABB3480C07	C	CB	ABB	S3L020TW	65	20	600	3
		MC	ABB	A12	5	11	480	3
		OLR	ABB	TA25DU14	5	10.0 - 14.0	600	3
		OLR	ABB	TA25DU14-20	5	10.0 - 14.0	600	3
ABB3480C08	C	CB	ABB	S3L030TW	65	30	600	3
		MC	ABB	A16	5	14	480	3
		OLR	ABB	TA25DU19	5	13.0 - 19.0	600	3
		OLR	ABB	TA25DU19-20	5	13.0 - 19.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
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- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type C

Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
35	480	3	0.75	1.6	1344	1	E193298 V1 S1
35	480	3	1	2.1	1344	1	E193298 V1 S1
35	480	3	1.5	3.0	1344	1	E193298 V1 S1
35	480	3	2	3.4	1344	1	E193298 V1 S1
35	480	3	3	4.8	1344	1	E193298 V1 S1
35	480	3	5	7.6	1344	1	E193298 V1 S1
35	480	3	7.5	11.0	1344	1	E193298 V1 S1
35	480	3	10	14.0	1344	1	E193298 V1 S1

Short circuit current ratings

NEC 409

Type C

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480C09	C	CB	ABB	S3L050TW	85	50	600	3
		MC	ABB	A26	5	27	480	3
		OLR	ABB	TA25DU25	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU25-20	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU32	5	24.0 - 32.0	600	3
		OLR	ABB	TA25DU32-20	5	24.0 - 32.0	600	3
ABB3480C10	C	CB	ABB	S3L060TW	85	60	600	3
		MC	ABB	A30	5	34	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480C11	C	CB	ABB	S3L070TW	85	70	600	3
		MC	ABB	A40	5	42	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480C12	C	CB	ABB	S3L080TW	85	80	600	3
		MC	ABB	A50	5	52	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
ABB3480C13	C	CB	ABB	S3L125TW	85	125	600	3
		MC	ABB	A63	10	77	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480C14	C	CB	ABB	S3L150TW	85	150	600	3
		MC	ABB	A75	10	77	480	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480C15	C	CB	ABB	S3L125TW	85	125	600	3
		MC	ABB	A110	10	96	480	3
		OLR	ABB	TA110DU110	5	80.0 - 110.0	600	3
ABB3480C16	C	CB	ABB	S4L250TW	100	250	600	3
		MC	ABB	A145	10	124	480	3
		OLR	ABB	TA200DU135	5	100.0 - 135.0	600	3
ABB3480C17	C	CB	ABB	S4L250TW	100	250	600	3
		MC	ABB	A185	10	156	480	3
		OLR	ABB	TA200DU150	5	110.0 - 150.0	600	3
		OLR	ABB	TA200DU175	5	130.0 - 175.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type C

Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
35	480	3	20	27.0	1344	1	E193298 V1 S1
65	480	3	25	34.0	1344	1	E193298 V1 S1
65	480	3	30	40.0	1344	1	E193298 V1 S1
85	480	3	40	52.0	1344	1	E193298 V1 S1
85	480	3	50	65.0	1344	1	E193298 V1 S1
85	480	3	60	77.0	1344	1	E193298 V1 S1
85	480	3	75	96.0	2560	1	E193298 V1 S1
65	480	3	100	124.0	4800	1	E193298 V1 S1
85	480	3	125	156.0	4800	1	E193298 V1 S1

Short circuit current ratings

NEC 409

Type C

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480C18	C	CB	ABB	S4L250TW	100	250	600	3
		MC	ABB	A210	18	180	480	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
ABB3480C19	C	CB	ABB	S5L400TW	100	400	600	3
		MC	ABB	A260	18	240	480	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3
ABB3480C20	C	CB	ABB	S5L400TW	100	400	600	3
		MC	ABB	A300	18	302	480	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3
ABB3480C21	C	CB	ABB	T2H015TW	65	15	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU1.4	5	1.0 - 1.4	600	3
		OLR	ABB	TA25DU1.8	5	1.3 - 1.8	600	3
		OLR	ABB	TA25DU1.8-20	5	1.3 - 1.8	600	3
ABB3480C22	C	CB	ABB	T2H015TW	65	15	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU2.4	5	1.7 - 2.4	600	3
		OLR	ABB	TA25DU2.4-20	5	1.7 - 2.4	600	3
ABB3480C23	C	CB	ABB	T2H015TW	65	15	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU3.1	5	2.2 - 3.1	600	3
		OLR	ABB	TA25DU3.1-20	5	2.2 - 3.1	600	3
ABB3480C24	C	CB	ABB	T2H015TW	65	15	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU4.0	5	2.8 - 4.0	600	3
		OLR	ABB	TA25DU4.0-20	5	2.8 - 4.0	600	3
ABB3480C25	C	CB	ABB	T2H015TW	65	15	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU5.0	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU5.0-20	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU6.5	5	4.5 - 6.5	600	3
		OLR	ABB	TA25DU6.5-20	5	4.5 - 6.5	600	3
ABB3480C26	C	CB	ABB	T2H020TW	65	20	480	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU8.5	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU8.5-20	5	6.0 - 8.5	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type C

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	85	480	3	150	180.0	9000	1, 6	E193298 V1 S1
	85	480	3	200	240.0	9000	1, 6	E193298 V1 S1
	85	480	3	250	302.0	9000	1, 6	E193298 V1 S1
	14	480	3	0.75	1.6	1344	1	E193298 V1 S1
	14	480	3	1	2.1	1344	1	E193298 V1 S1
	14	480	3	1.5	3.0	1344	1	E193298 V1 S1
	14	480	3	2	3.4	1344	1	E193298 V1 S1
	14	480	3	3	4.8	1344	1	E193298 V1 S1
	22	480	3	5	7.6	1344	1	E193298 V1 S1

Short circuit current ratings

NEC 409

Type C

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480C27	C	CB	ABB	T2H020TW	65	20	480	3
		MC	ABB	A12	5	11	480	3
		OLR	ABB	TA25DU14	5	10.0 - 14.0	600	3
		OLR	ABB	TA25DU14-20	5	10.0 - 14.0	600	3
ABB3480C28	C	CB	ABB	T2H020TW	65	20	480	3
		MC	ABB	A16	5	14	480	3
		OLR	ABB	TA25DU19	5	13.0 - 19.0	600	3
		OLR	ABB	TA25DU19-20	5	13.0 - 19.0	600	3
ABB3480C29	C	CB	ABB	T2H040TW	65	40	480	3
		MC	ABB	A26	5	27	480	3
		OLR	ABB	TA25DU25	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU25-20	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU32	5	24.0 - 32.0	600	3
		OLR	ABB	TA25DU32-20	5	24.0 - 32.0	600	3
ABB3480C30	C	CB	ABB	T4V040TW	150	40	600	3
		MC	ABB	A30	5	34	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480C31	C	CB	ABB	T4V060TW	150	60	600	3
		MC	ABB	A40	5	42	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480C32	C	CB	ABB	T4V080TW	150	80	600	3
		MC	ABB	A50	5	52	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
ABB3480C33	C	CB	ABB	T4V100TW	150	100	600	3
		MC	ABB	A63	10	77	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480C34	C	CB	ABB	T4V125TW	150	125	600	3
		MC	ABB	A75	10	77	480	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480C35	C	CB	ABB	T4L150TW	100	150	600	3
		MC	ABB	A110	10	96	480	3
		OLR	ABB	TA110DU110	5	80.0 - 110.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type C

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	22	480	3	7.5	11.0	1344	1	E193298 V1 S1
	22	480	3	10	14.0	1344	1	E193298 V1 S1
	22	480	3	20	27.0	1344	1	E193298 V1 S1
	22	480	3	25	34.0	1344	1	E193298 V1 S1
	22	480	3	30	40.0	1344	1	E193298 V1 S1
	22	480	3	40	52.0	1344	1	E193298 V1 S1
	35	480	3	50	65.0	1344	1	E193298 V1 S1
	35	480	3	60	77.0	1344	1	E193298 V1 S1
	35	480	3	75	96.0	2560	1	E193298 V1 S1

Short circuit current ratings

NEC 409

Type C

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480C36	C	CB	ABB	T4L200TW	100	200	600	3
		MC	ABB	A145	10	124	480	3
		OLR	ABB	TA200DU135	5	100.0 - 135.0	600	3
ABB3480C37	C	CB	ABB	T4L200TW	100	200	600	3
		MC	ABB	A185	10	156	480	3
		OLR	ABB	TA200DU150	5	110.0 - 150.0	600	3
		OLR	ABB	TA200DU175	5	130.0 - 175.0	600	3
ABB3480C38	C	CB	ABB	T4L225TW	100	225	600	3
		MC	ABB	A210	18	180	480	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
ABB3480C39	C	CB	ABB	T4L250TW	100	250	600	3
		MC	ABB	A210	18	180	480	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
ABB3480C40	C	CB	ABB	T5L300TW	100	300	600	3
		MC	ABB	A260	18	240	480	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3
ABB3480C41	C	CB	ABB	T5L400TW	100	400	600	3
		MC	ABB	A260	18	240	480	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3
ABB3480C42	C	CB	ABB	T5L400TW	100	400	600	3
		MC	ABB	A300	18	302	480	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type C

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	35	480	3	100	124.0	4800	1	E193298 V1 S1
	35	480	3	125	156.0	4800	1	E193298 V1 S1
	35	480	3	150	180.0	9000	1, 6	E193298 V1 S1
	85	480	3	150	180.0	9000	1, 6	E193298 V1 S1
	35	480	3	200	240.0	9000	1, 6	E193298 V1 S1
	85	480	3	200	240.0	9000	1, 6	E193298 V1 S1
	85	480	3	250	302.0	9000	1, 6	E193298 V1 S1

Short circuit current ratings

NEC 409

Type D

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480D01	D	ICB	ABB	S3L003MW	-	3	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU1.4	5	1.0 - 1.4	600	3
		OLR	ABB	TA25DU1.8	5	1.3 - 1.8	600	3
		OLR	ABB	TA25DU1.8-20	5	1.3 - 1.8	600	3
ABB3480D02	D	ICB	ABB	S3L005MW	-	5	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU2.4	5	1.7 - 2.4	600	3
		OLR	ABB	TA25DU2.4-20	5	1.7 - 2.4	600	3
ABB3480D03	D	ICB	ABB	S3L005MW	-	5	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU3.1	5	2.2 - 3.1	600	3
		OLR	ABB	TA25DU3.1-20	5	2.2 - 3.1	600	3
ABB3480D04	D	ICB	ABB	S3L005MW	-	5	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU4.0	5	2.8 - 4.0	600	3
		OLR	ABB	TA25DU4.0-20	5	2.8 - 4.0	600	3
ABB3480D05	D	ICB	ABB	S3L010MW	-	10	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU5.0	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU5.0-20	5	3.5 - 5.0	600	3
		OLR	ABB	TA25DU6.5	5	4.5 - 6.5	600	3
		OLR	ABB	TA25DU6.5-20	5	4.5 - 6.5	600	3
ABB3480D06	D	ICB	ABB	S3L025MW	-	25	600	3
		MC	ABB	A9	5	7.6	480	3
		OLR	ABB	TA25DU8.5	5	6.0 - 8.5	600	3
		OLR	ABB	TA25DU8.5-20	5	6.0 - 8.5	600	3
ABB3480D07	D	ICB	ABB	S3L025MW	-	25	600	3
		MC	ABB	A12	5	11	480	3
		OLR	ABB	TA25DU14	5	10.0 - 14.0	600	3
		OLR	ABB	TA25DU14-20	5	10.0 - 14.0	600	3
ABB3480D08	D	ICB	ABB	S3L050MW	-	50	600	3
		MC	ABB	A16	5	14	480	3
		OLR	ABB	TA25DU19	5	13.0 - 19.0	600	3
		OLR	ABB	TA25DU19-20	5	13.0 - 19.0	600	3
ABB3480D09	D	ICB	ABB	S3L050MW	-	50	600	3
		MC	ABB	A26	5	27	480	3
		OLR	ABB	TA25DU25	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU25-20	5	18.0 - 25.0	600	3
		OLR	ABB	TA25DU32	5	24.0 - 32.0	600	3
		OLR	ABB	TA25DU32-20	5	24.0 - 32.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type D

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	35	480	3	0.75	1.6	1344	1, 5	E193298 V1 S1
	35	480	3	1	2.1	1344	1, 5	E193298 V1 S1
	35	480	3	1.5	3.0	1344	1, 5	E193298 V1 S1
	35	480	3	2	3.4	1344	1, 5	E193298 V1 S1
	35	480	3	3	4.8	1344	1, 5	E193298 V1 S1
	35	480	3	5	7.6	1344	1, 5	E193298 V1 S1
	35	480	3	7.5	11.0	1344	1, 5	E193298 V1 S1
	35	480	3	10	14.0	1344	1, 5	E193298 V1 S1
	35	480	3	20	27.0	1344	1, 5	E193298 V1 S1

Short circuit current ratings NEC 409 Type D

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480D10	D	ICB	ABB	S3L050MW	-	50	600	3
		MC	ABB	A30	5	34	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480D11	D	ICB	ABB	S3L100MW	-	100	600	3
		MC	ABB	A40	5	42	480	3
		OLR	ABB	TA42DU42	5	29.0 - 42.0	600	3
		OLR	ABB	TA42DU42-20	5	29.0 - 42.0	600	3
ABB3480D12	D	ICB	ABB	S3L100MW	-	100	600	3
		MC	ABB	A50	5	52	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
ABB3480D13	D	ICB	ABB	S4L100MW	-	100	600	3
		MC	ABB	A63	10	77	480	3
		OLR	ABB	TA75DU63	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU63-20	5	45.0 - 63.0	600	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480D14	D	ICB	ABB	S4L150MW	-	150	600	3
		MC	ABB	A75	10	77	480	3
		OLR	ABB	TA75DU80	5	60.0 - 80.0	600	3
		OLR	ABB	TA75DU80-20	5	60.0 - 80.0	600	3
ABB3480D15	D	ICB	ABB	S4L150MW	-	150	600	3
		MC	ABB	A110	10	96	480	3
		OLR	ABB	TA110DU110	5	80.0 - 110.0	600	3
ABB3480D16	D	ICB	ABB	S4N150MW	-	150	600	3
		MC	ABB	A145	10	124	480	3
		OLR	ABB	TA200DU135	5	100.0 - 135.0	600	3
ABB3480D17	D	ICB	ABB	S4N250MW	-	250	600	3
		MC	ABB	A185	10	156	480	3
		OLR	ABB	TA200DU150	5	110.0 - 150.0	600	3
		OLR	ABB	TA200DU175	5	130.0 - 175.0	600	3
ABB3480D18	D	ICB	ABB	S4N250MW	-	250	600	3
		MC	ABB	A210	18	180	480	3
		OLR	ABB	TA450DU185	5	130.0 - 185.0	600	3
ABB3480D19	D	ICB	ABB	S5N400MW	-	400	600	3
		MC	ABB	A260	18	240	480	3
		OLR	ABB	TA450DU235	5	165.0 - 235.0	600	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3

Conditions of Acceptability:

- All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- When specified, the overload relay heater table number shall be provided with the equipment.
- Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type D

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	65	480	3	25	34.0	1344	1, 5	E193298 V1 S1
	65	480	3	30	40.0	1344	1, 5	E193298 V1 S1
	85	480	3	40	52.0	1344	1, 5	E193298 V1 S1
	85	480	3	50	65.0	1344	1, 5	E193298 V1 S1
	85	480	3	60	77.0	1344	1, 5	E193298 V1 S1
	85	480	3	75	96.0	2560	1, 5	E193298 V1 S1
	65	480	3	100	124.0	4800	1, 5	E193298 V1 S1
	85	480	3	125	156.0	4800	1, 5	E193298 V1 S1
	85	480	3	150	180.0	9000	1, 5, 6	E193298 V1 S1
	85	480	3	200	240.0	9000	1, 5, 6	E193298 V1 S1

Short circuit current ratings

NEC 409

Type D

ID Number	Combination Type	Component Type	Component Manufacturer	Component Catalog Designation	Component Ratings			
					kA	Max Amps	Volts	Poles
ABB3480D20	D	ICB	ABB	S5N400MW	-	400	600	3
		MC	ABB	A300	18	302	480	3
		OLR	ABB	TA450DU310	5	220.0 - 310.0	600	3

Conditions of Acceptability:

- 1 All of the specified individual components of the combination motor controller have been installed in an enclosure having a specified internal volume in cubic inches. Additional testing of the combination motor controller is not required when installed in an enclosure having the same or larger volume.
- 2 When specified, the motor controller and overload relay shall be installed to maintain the specified distance, in inches, from the overcurrent protective devices and other components shall not be installed in this area.
- 3 When specified, the overload relay heater table number shall be provided with the equipment.
- 4 Unless otherwise specified, all connections between components are made with insulated wire having an ampacity of 125 percent of the rated motor current and connected to the terminals supplied with the individual components.
- 5 The need for cautionary markings applicable to high fault short circuit current ratings, Type D and Type E combination motor controllers shall be considered in the end-product application.
- 6 The TA450 overload relay requires the use of a mounting kit if mounted to the contactor. See the manufactures specifications.

Short circuit current ratings
NEC 409
Type D

	Combination kA	Combination Volts	Combination Phase	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	85	480	3	250	302.0	9000	1, 5, 6	E193298 V1 S1

Notes

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