MANUFACTURER DOCUMENT PACKAGE

Manufacturer's Manual

Amikon cover with selected official ABB reference pages

ABB PowerLine / OS30AJ12

OS30AJ12

THREE-POLE FUSIBLE DISCONNECT SWITCH

OFFICIAL SOURCES

ABB 1SXU000078D0201. Original cover, glossary, index, 480 V reference and conditions; not a complete manual.



NEC 409 / UL 508A
Short circuit current ratings

Power and productivity
for a better world™

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

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

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

F - Listed Fuses

ICB - Recognized Instantaneous trip circuit breaker

MC - Listed or Recognized 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

IV. 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.

Short circuit current ratings
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Short circuit current ratings
NEC 409 / UL 508A
Type A, 480V

ID Number	Combination type	Component type	Component manufacturer	Component catalog designation	Component Ratings				Combination kA	Combination Volts	Combination Phase
					kA	Max Amps	Volts	Poles			
ABB3480A01.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	3	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU1.4	5	1.0 - 1.4	480	3			
ABB3480A01.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	3	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU1.4-20	5	1.0 - 1.4	480	3			
ABB3480A02.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	6	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU1.8	5	1.3 - 1.8	480	3			
ABB3480A02.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU1.8-20	5	1.3 - 1.8	480	3			
ABB3480A03.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	6	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU2.4	5	1.7 - 2.4	480	3			
ABB3480A03.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	6	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU2.4-20	5	1.7 - 2.4	480	3			
ABB3480A04.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	10	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU4.0	5	2.8 - 4.0	480	3			
ABB3480A04.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	10	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU4.0-20	5	2.8 - 4.0	480	3			
ABB3480A05.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	10	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU4.0	5	2.8 - 4.0	480	3			
ABB3480A05.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	10	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU4.0-20	5	2.8 - 4.0	480	3			
ABB3480A06.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	15	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU6.5	5	4.5 - 6.5	480	3			
ABB3480A06.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	15	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU6.5-20	5	4.5 - 6.5	480	3			
ABB3480A07.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU11	5	7.5 - 11	480	3			
ABB3480A07.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A9	5	9	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU11-20	5	7.5 - 11	480	3			
ABB3480A08.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A12	5	11	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU14	5	10 - 14.0	480	3			
ABB3480A08.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A12	5	11	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU14-20	5	10 - 14.0	480	3			
ABB3480A09.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A16	5	17	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU19	5	13 - 19	480	3			
ABB3480A09.02	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A16	5	17	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU19-20	5	13 - 19	480	3			
ABB3480A10.01	A	FDS	ABB Oy	OS30AJ12	200	30	480	3	200	480	3
		F	Bussmann	Class J	200	30	480	-			
		MC	ABB France	A26	5	28	480	3			
		OLR	ABB Stotz-Kontakt	TA25DU25	5	18 - 25	480	3			

	Maximum Combination HP	Maximum Combination NEC FLC	Minimum Enclosure Volume (cu in.)	Conditions of Acceptability	Combination UL File Reference
	0.5	1.1	1344	1	E193298 V1 S1
	0.5	1.1	1344	1	E193298 V1 S1
	0.8	1.6	1344	1	E193298 V1 S1
	0.8	1.6	1344	1	E193298 V1 S1
	1.0	2.1	1344	1	E193298 V1 S1
	1.0	2.1	1344	1	E193298 V1 S1
	1.5	3.0	1344	1	E193298 V1 S1
	1.5	3.0	1344	1	E193298 V1 S1
	2.0	3.4	1344	1	E193298 V1 S1
	2.0	3.4	1344	1	E193298 V1 S1
	3.0	4.8	1344	1	E193298 V1 S1
	3.0	4.8	1344	1	E193298 V1 S1
	5.0	7.6	1344	1	E193298 V1 S1
	5.0	7.6	1344	1	E193298 V1 S1
	7.5	11.0	1344	1	E193298 V1 S1
	7.5	11.0	1344	1	E193298 V1 S1
	10.0	14.0	1344	1	E193298 V1 S1
	10.0	14.0	1344	1	E193298 V1 S1
	15.0	21.0	1344	1	E193298 V1 S1

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 at least an ampacity of 100 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 a 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.