

CERTIFICATE OF COMPLIANCE

Certificate Number 20120917-E312527
Report Reference E312527-20071211
Issue Date 2012-SEPTEMBER-17

Issued to: ABB FRANCE
ACTIVITE PROTECTION ET CONTROL
10 RUE AMPERE
69685 CHASSIEU CEDEX FRANCE


This is to certify that representative samples of MOTOR CONTROLLERS, MAGNETIC
See Addendum Pages

Have been investigated by UL in accordance with the Standard(s) indicated on this Certificate.

Standard(s) for Safety: UL 508, INDUSTRIAL CONTROL EQUIPMENT;
CSA C22.2 NO. 14, INDUSTRIAL CONTROL EQUIPMENT

Additional Information: See the UL Online Certifications Directory at www.ul.com/database for additional information

Only those products bearing the UL Listing Mark for the US and Canada should be considered as being covered by UL's Listing and Follow-Up Service meeting the appropriate requirements for US and Canada.

The UL Listing Mark for the US and Canada generally includes: the UL in a circle symbol with "C" and "US" identifiers:  the word "LISTED"; a control number (may be alphanumeric) assigned by UL; and the product category name (product identifier) as indicated in the appropriate UL Directory.

Look for the UL Listing Mark on the product.



William R. Carney, Director, North American Certification Programs
UL LLC

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This is to certify that representative samples of the product as specified on this certificate were tested according to the current UL requirements.

Models:

Across-the-line reversing contactors for use in industrial applications, open type, Cat. Nos. AS09, ASL09, AS12, ASL12, AS16, ASL16, followed by -30, may be followed by -01 or -10 or -32 may be followed by S may be followed by "-" and two digits, may be followed by a letter.

Ratings provided on following pages.



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ELECTRICAL RATINGS:

Environment : Pollution Degree 3

Coil Voltages:
24 to 415 V ac, 50/60 Hz

12 to 240 V dc

Screw terminals:

AS, ASL Range Size		09	12	16
3-phase motor rating Breaking-All-Lines				
200-208Vac	Amps A	7.8	7.8	11
	Motor power HP	2	2	3
220-240Vac	Amps A	6.8	9.6	15.2
	Motor power HP	2	3	5
440-480Vac	Amps A	7.6	11	14
	Motor power HP	5	7.5	10
550-600Vac	Amps A	9	11	11
	Motor power HP	7.5	10	10

AS, ASL Range Size		09	12	16
General Use rating 3-phase				
600 Vac	Amps A	20	20	20

AS, ASL Range Size		09	12	16
1-phase motor rating Breaking-All-Lines				
120Vac	Amps A	7.2	9.8	13.8
	Motor power HP	1/3	1/2	3/4
240Vac	Amps A	8	10	12
	Motor power HP	1	1.5	2



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Additional ratings: Contactors size (based on ANSI/NEMA ICS2-1993 table 2-4-1)

Contactors type	Terminal type	Contactors size
AS09 / ASL09 / AS12 / ASL12	Pressure Screw terminal	size 00
AS16 / ASL16	Pressure Screw terminal	Size 0

Auxiliary Contact - NO or NC: A600 Q300

DC ratings – 240Vdc when 3 poles mounted in series (80Vdc per pole)

Cat. No.	General Use, 240 V dc
AS, ASL 09	20
AS, ASL 12	20
AS, ASL 16	20

Spring terminals : For Models with "S" suffix:

AS, ASL Range Size		09	12	16
3-phase motor rating. Breaking-All-Lines				
200-208Vac	Amps A	7.8	7.8	11
	Motor power HP	2	2	3
220-240Vac	Amps A	6.8	9.6	15.2
	Motor power HP	2	3	5
440-480Vac	Amps A	7.6	11	14
	Motor power HP	5	7.5	10
550-600Vac	Amps A	9	11	11
	Motor power HP	7.5	10	10

AS, ASL Range Size		09	12	16
General Use rating 3-phase				
600 Vac	Amps A	12	12	15.2

AS, ASL Range Size		09	12	16
1-phase motor rating Breaking-All-Lines				
120Vac	Amps A	7.2	9.8	13.8
	Motor power HP	1/3	1/2	3/4
240Vac	Amps A	8	10	12
	Motor power HP	1	1.5	2



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Additional ratings: Contactors size (based on ANSI/NEMA ICS2-1993 table 2-4-1)

Contactor type	Terminal type	Contactors size
AS09 / AS12 / AS16 ASL09 / ASL12 / ASL16	Spring terminal	size 00

Auxiliary Contact - NO or NC: A600 Q300

DC ratings – 240Vdc when 3 poles mounted in series (80Vdc per pole)

Cat. No.	General Use, 240 V dc
AS, ASL 09	12
AS, ASL 12	12
AS, ASL 16	15.2

Definite Purpose Controller - Air Conditioning rating

Model	FLA	LRA 480V	LRA 600V
AS(L)09, AS(L)12, AS(L)16 Pressure screw terminals only	20	120	80

Wire Size –

Power and auxiliary Terminals: Cu, Stranded 75°C.

Torque for Pressure Screw devices: 9 lb-in (1Nm).

Connecting capacity for screw and spring Connection:

-Auxiliary and coil circuits: 1 x 18-14 AWG
2 x 18-14 AWG

-Main circuits: 1 x 18-12 AWG
2 x 18-12 AWG

Terminals were evaluated for Field Wiring.

(The devices are using the same contact pressure spring. Pressure force for AS & ASL series is 1N and 0.6N for auxiliary pole)



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Short Circuit Current Ratings –

Standard Fault:

600 Vac, 5000A RMS Symmetrical, when protected by fuses.

High Fault:

Cat. No.	Voltage, V ac	Protective Devices	
		Short Circuit, RMS Symmetrical, KA	Listed Class J, Maximum Fuse Size, A
AS/ASL09	600	100	35
AS/ASL12	600	100	35
AS/ASL16	600	100	40

These devices were also tested as a combination with this manufacturer's Listed overload relays for the following short circuit current ratings:

Cat. No.	Voltage V ac	Short Circuit, RMS Symmetrical KA	Protective Devices	
			Listed Type J Fuse, having Maximum Fuse Size, A	Listed Overload Relay ABB, TF16 Maximum A
AS/ASL9	600	100	35	7.6
AS/ASL12	600	100	35	10
AS/ASL16	600	100	50	16



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