

Certificate of Compliance

Certificate: 1515770 (LR 54332-11)

Master Contract: 166164

Project: 2468896

Date Issued: January 4, 2012

Issued to: Lovato Electric S.p.A.

**Componenti Elettrici per
Automazioni Industriali**

Via Don E Mazza 12

Gorle, Bergamo 24020

Italy

Attention: Raffaele Ferrari

The products listed below are eligible to bear the CSA Mark shown



Omar Elouadrhiri Eng

Issued by: Omar Elouadrhiri Eng

PRODUCTS

CLASS 3211 04 - INDUSTRIAL CONTROL EQUIPMENT - Motor Controllers - Magnetic

AC or DC contactors, three or four poles, open type, operating coil 600V ac or less, 380V dc or less. Cat Nos MC6, MC6C, MC9, MC9C, MC9.4, MC9C.4, DPMC9, BF9, BF9C, BF9.40, BF9C.40, DPBF9, BF12, DPBF12, BF16, BF16C, BF16.40, BF16C.40, BF20, BF20C, BF20.40, BF20C.40, DPBF20, BF25, BF25C, BF25.40, BF25C.40, DPBF25, BF32, BF32C, DPBF32, BF38, BF38C, BF38.40, BF38C.40, BF40, BF50, BF50C, BF50.40, BF65, BF65C, BF65.40, BF65C.40, BF65C.40, BF80, BF80C, BF80.40, BF80C.40, BF95, BF95C, B9, B9C, B9.4, B9C.4, B12, B12C, B12.4, B12C.4, B16, B16C, B16.4, B16C.4, B22, B22C, B22.4, B22C.4, B32, B32C, B46, B46C, B46.4, B46C.4, B63, B63C, B63.4, B63C.4, B80, B80C, B80.4, B80C.4 and BF followed by 09, 12, 18, 25, 26, 32, 38, followed by 00, 10, 01, T0, T2, T4 followed by A followed by coil voltage

AC contactors, three or four poles, open type, operating coil 600V ac or less, 380V dc or less, with the following ratings:

Res.		Horsepower
Gen use	Heating	
		1 3



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Part No	Amps	Amps	115V	230V	200V	240V	480V	600V
MC6	16	-	1/3	1.0	1.5	2.0	2.0	3.0
MC9	16	-	1/2	1.5	2.0	3.0	3.0	5.0
B9, BF9	22	-	3/4	2.0	3.0	3.0	5.0	7.5
B12, BF12	24	-	1.0	2.0	5.0	5.0	7.5	10
BF16	24	-	1.0	2.0	5.0	5.0	10	10
B16, BF20	36	-	1.5	3.0	5.0	5.0	10	15
B22, BF25	40	-	2.0	5.0	7.5	7.5	15	20
B32, BF32	52	-	3.0	7.5	7.5	10	20	25
B38, BF38, BF40	52	-	3.0	7.5	10	15	30	30
B46, BF50	90	-	5.0	10	10	15	30	40
B63, BF65	110	-	-	-	20	25	50	60
B80, BF80	125	-	-	-	25	30	60	75
BF95	125	-	-	-	30	30	60	75
BF09..A or D or L	25	-	3/4	2	3	3	5	7 1/2
BF12..A or D or L	28	-	1	2	5	5	7 1/2	10
BF18..A or D or L	32	-	1	3	5	5	10	15
BF25..A or D or L	32	-	2	3	7 1/2	7 1/2	15	15
BF26..A or D or L	45	-	2	5	7 1/2	7 1/2	15	20
BF32..A or D or L	55	-	3	7 1/2	10	10	20	25
BF38..A or D or L	55	-	3	7 1/2	10	15	30	30
DPMC9	16	-	1.0	2.0	3.0	3.0	5.0	5.0
DP9, DPBF9	22	30	2.0	3.0	5.0	5.0	10	15
DP12, DPBF12	24	30	2.0	3.0	5.0	5.0	10	15



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DP16, DPBF20	32	40	2.0	5.0	7.5	7.5	15	20
DP22, DPBF25	40	50	3.0	7.5	10	15	30	40
DP32, DPBF32	50	63	5.0	10	15	20	40	50

Additional ratings: DPMC9, LRA 96; DP9, DPBF9, LRA 120; DP12, DPBF12, LRA160; DP16, DPBF20, LRA 180; DP22, DPBF25, LRA 240 and DP32, DPBF32, LRA 350.

Notes:

1. The contactors may be provided with an auxiliary NO or NC contact, code rated A600 P600 which may be denoted as a suffix in the type designation.
2. The contactors may be provided with auxiliary contact sets Types G217, G480 and G224, code rated A600 P600 (same polarity above 300V) and/or G218, code rated A600 Q600.
3. Contactors DP Series were tested for 30,000 cycles of endurance for the FLA rating at 600V ac max.
4. Contactors DP Series were tested for 200,000 cycles of endurance for the resistive ratings 80A resistive to 63A resistive at 600V ac.
5. Open type devices are Certified as components for use only in other Certified equipment where the suitability of the combination is determined by CSA International.

CLASS 2411 03 - ELEVATOR EQUIPMENT - Magnetic Motor Controllers

Part No	Gen use Amps	Res.		Horsepower				
		Heating Amps	1 120V	3 240V	1 208V	3 240V	7 ½ 480V	7 ½ 600V
BF12..A or D or L 28	-	½	1 ½	3	3	7 ½	7 ½	
BF25..A or D or L 32	-	1 ½	3	5	7 ½	15	15	
BF38..A or D or L 55	-	3	5	10	10	20	20	



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APPLICABLE REQUIREMENTS

CSA - C22.2 No. 14 - 10 Industrial Control Equipment

CAN/CSA B44.1-04 / ASME A17.5-2004 - Elevator and Escalator Electrical Equipment



Supplement to Certificate of Compliance

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The products listed, including the latest revision described below, are eligible to be marked in accordance with the referenced Certificate.

Product Certification History

Project	Date	Description
2468896	January 4, 2012	Addition of alternate plastic LATAMID 66 H2 G25 V0 HF1 for the head of BF09 contactors.
1999607	February 21, 2008	Update report 1515770 (LR 54332-11) to add new Models BF09A, BF12A, BF18A, BF25A, BF26A, BF32A, BF38A.
1761751	January 26, 2007	Reviewed the products Certified on this report for compliance with Industrial Control Equipment Certification Notice No.17 (N05-085) and with CSA - C22.2 No. 14-05
1515770	March 12, 2004	CSA file update to add alternate construction. REPORT 166164-1515770 SUPERSEDES REPORT LR 54332-11.

History

2021398 2008-09-29 add of new elevator duty models BF12, 25, 38..A, -D, -L

LR 54332-42 1999-09-30 Covers the addition of alternate construction for auxiliary contact ("H" Shaped) for Type BF9, BF12, BF16, DPBF9 and DPBF12 contactors; addition of alternate plastic materials for the cover (Fig. 9, Item 2 and Fig. 11, Item 2) of Cat No B46 and respectively Cat No B80, BF80 contactors; alternate plastic material for cover (Item 2) for Type MC6, MC9 and DPMC9 contactors.

LR 54332-41 1998-04-14 Covers report correction.

LR 54332-38 1997-11-21 Covers alternate Head, Coil, Containment, carrier, box, cover and base plastics.

LR 54332-37 1996-01-30 Covers revision of report description and nomenclature.