

STATEMENT OF CONFORMITY

Ref.No. SE-514582

Product:

Cable Distribution Cabinet

Tested by request of:

ABB Kabeldon

Box 531

SE-441 15 Alingsås

Sweden

Manufactured at:

ABB Kabeldon

Sävelundsgatan 2 SE-441 38 Alingsås

Sweden

Rating and principal characteristics:

CDCM 420: 400 A, 400 V~, 30 kA 0.2 s, IP 34D CDCM 440: 400 A, 400 V~, 30 kA 0.2 s, IP 34D

CDCM 640: 630 A, 400 V~, 23 kA 1 s, IP 34D

Trade mark (if any):

ABB Kabeldon

Model/Type Ref:

CDCM 420/ 2CGX0 6330 0430 CDCM 440/ 2CGX0 6330 0609 CDCM 640/ 2CGX0 6330 0610

Additional information (if any):

Tested by Intertek Semko AB SMTA - ABB Kabeldon

See also Test Report page 1-3

and found to be in conformity with:

A sample of the product has been tested IEC/EN 60439-5:1999 (1.1 Edition) and IEC/EN 60439-1:1999 +

A1:2004

As shown in the Test Report (ref.no):

514582



Stockholm

Intertek Semko AB



05 October 2005



Pär Iggström









TEST REPORT IEC 60 439-5 and/or EN 60 439-5

Low-voltage switchgear and controlgear assemblies

Part 5: Particular requirements for assemblies intended to be installed outdoors in public places – Cable distribution cabinets (CDCs) for power distribution in networks

Report Reference No.	514582	
Tested by (name+signature)	Bertil T Larsson Claes Söderström Pär Iggström Buhl Lunn Mushlim Par Lypsh Angelia	
Witnessed by (name+signature):	/ A	
Supervised by (name+signature):	Claes Söderström	
Approved by (name+signature)	Pär Iggström	
Date of issue	2005-09-29	
CB Testing Laboratory	Intertek Semko AB	
Address	Torshamnsgatan 43, 164 22 Kista	
Testing location/ procedure:	CBTL ☐ RMT ☐ SMT ☒ WMT ☐ TMP ☐	
Testing location/ address	ABB Kabeldon (The Laboratory)	
	Sävelundsgatan 2, SE-441 38 Alingsås, Sweden	
Applicant's name	ABB Kabeldon	
Address	Box 531, SE-441 15 Alingsås, Sweden	
Test specification:		
Standard	IEC/EN 60439-5:1999 (1.1 Edition) and/or IEC/EN 60439-1:1999 + A1:2004	
Test procedure	CB / CCA scheme	
Non-standard test method:	N/A	
Test Report Form No	IECEN60439_5A	
TRF Originator	SGS Fimko Ltd	
Master TRF	2005-07	
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This publication may be reproduced in whole or copyright owner and source of the material. IEC the reader's interpretation of the reproduced materials.	in part for non-commercial purposes as long as the IECEE is acknowledged as CEE takes no responsibility for and will not assume liability for damages resulting from aterial due to its placement and context.	
Test item description	Cable Distribution Cabinet with upper part (CDCM)	
Trade Mark	ABB Kabeldon	
Manufacturer	ABB Kabeldon	
Model/Type reference	CDCM 420/ 2CGX0 6330 0430, CDCM 440/ 2CGX0 6330 0609, CDCM 640/ 2CGX0 6330 0610	
Ratings	CDCM 420 and 440: 400 A, 400 V~, 30 kA 0.2 s, IP 34D	
	CDCM 640: 630 A, 400 V~, 23 kA 1 s, IP 34D	











Copy of marking plates







Summary of testing:

A partial test has been done on the Cable Distribution Cabinets CDCM 420 and CDCM 440/640 at the laboratory at ABB Kabeldon. These cabinets are basically the same as CDC 420 and 440/640, that previously have been tested and approved by SEMKO (Reference No:301938, issued on the 12th of February 2003).

The difference is the upper section, suitable for equipment for kWh metering and other similar equipment. All tests are not performed as they are already done on the standard CDC.

Photos have been provided, separately from this report.

The tests done on this occasion are the following:

"Verification of resistance to static load" (8.2.9.1.1 Test 2)

"Verification of resistance to torsional stress" (8.2.9.1.3)

Verification of degree of protection provided by the IP Code (IEC 60529 13.3, 14.2.4 and 15.3). An additional dielectric test according to IEC 60439-1 8.2.7 has been performed.

Test item particulars	Cable Distribution Cabinet with upper part (CDCM)
Place of installation	outdoor
Service conditions	normal / special
IP Code	IP 34D
*	
Possible test case verdicts:	
- test case does not apply to the test object:	N/A
- test object does meet the requirement:	P(Pass)
- test object does not meet the requirement:	F(Fail)
Testing	
Date of receipt of test item:	2005-09-12
Date (s) of performance of tests:	2005-09-14 - 2005-09-23

General remarks:

This report is not valid as a CB Test Report unless signed by an approved CB Testing Laboratory and appended to a CB Test Certificate issued by an NCB in accordance with IECEE 02.

The test results presented in this report relate only to the object tested.

This report shall not be reproduced, except in full, without the written approval of the Issuing testing laboratory.

Throughout this report a comma (point) is used as the decimal separator.

General product information:

Enclosure series CDC/M are made of hot-dip galvanized sheet steel and are built to standards IEC 60439-1 and IEC 60439–5. The CDCM cabinets are the same as CDC but are fitted with an upper section, which can be locked separately. The degree of protection is IP 34D in accordance to IEC 60439-5 and also with the requirements for use in arctic climate. The cabinets are normally provided with busbar system, rated current 400 or 630 amps. The sides have a bracket to attach a snow marking pole or an accessory cabinet. The difference between a CDCM 420 and a CDCM 440 is the width, 350 and 600 mm, respectively. The CDCM 640 has the same measurements as 440, with a 630 A busbar system.

[&]quot;(see Enclosure #)" refers to additional information appended to the report.

[&]quot;(see appended table)" refers to a table appended to the report.

	IEC 60439-5 and/or EN 604	39-5		
Clause	Requirement + Test	Result - Remark	Verdict	
5	INFORMATION TO BE GIVEN REGARDING THE A	ASSEMBLY		
5.1 Nameplates				
	on the nameplate(s) shall be given:			
	a) manufacturers name:	ABB Kabeldon	Р	
п	b) identification / type reference:	CDCM 420 / 440 / 640	Р	
	on the nameplate or in the relevant documentation shall be given:			
	c) standard IEC/EN 60439-5	IEC 60439-5	Р	
fq) information:			N/A	
	r) rated current (clause 4.9)	400 A / 630 A	Р	

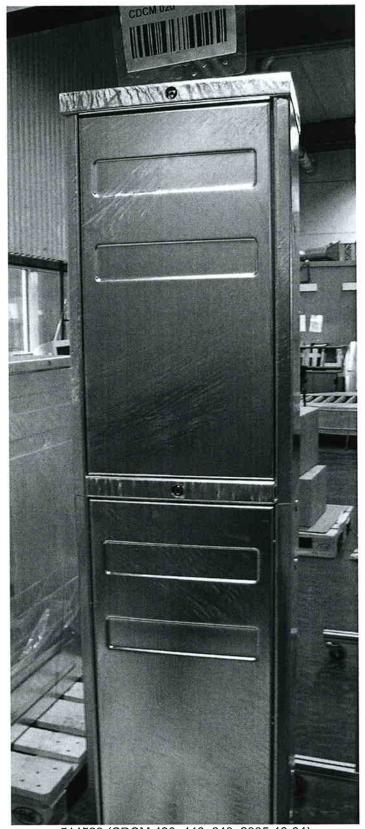
6	SERVICE CONDITIONS	
6.1	Normal service conditions	Р
6.2	Special service conditions	
6.2.11	Where heavy snowfalls and snowdrift occur, arctic climate can be considered a normal condition; however, the lower temperature limit of -25°C may be applied	Р

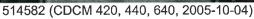
7	DESIGN AND CONSTRUCTION		
7.1	Mechanical design		N/A
7.1.1	General		N/A
7.1.3	Terminals for external conductors		N/A
7.2	Enclosure and degree of protection		
7.2.1.3	Enclosure of CDC at least IP34D	IP 34D, tested according to IEC 60529. Additional dielectric test 3.5 kV according to IEC 60439-1 8.2.7	Р
7.4	Protection against electric shock		N/A
7.6	Switching devices and components installed in ASSEMBLIES		N/A

8	TEST SPECIFICATIONS		
8.2	Type tests		
8.2.3	Verification of short-circuit withstand strength		N/A
8.2.9	Verification of mechanical strength		
	Test temperature 1040 °C	20°C	Р
	a new sample CDC may be used for each of the independent tests.		N/A

	If same sample CDC used for more than one test, compliance check for second numeral of IP only applied when the tests on that sample completed		Р
	CDC fixed at its normal ground level		P
	door(s) of the CDC locked at the commencement of test and remain locked for the duration of test		Р
8.2.9.1	Verification of structural strength		
8.2.9.1.1	Verification of resistance to static load		
	a) following tests on all types of CDC except the wall-	-mounted recessed type	
	Test 1 – load of 8500 N/m²; for 5 min to the roof of the enclosure	m²; load N	N/A
	Test 2 – force 1200 N; for 5 min in turn to the front and back upper edges of the roof of the enclosure	Force 1200 N for 5 min.	Р
	b) wall- mounted recessed type of CDC		
	load 60 N; for 5 min to each sidewall of the enclosure in turn.		N/A
	Compliance for a) and b) is checked by verification		
	degree of protection remains IP34D	Tested with access probe	Р
	operation of door(s) and locking points not impaired	ОК	Р
	electrical clearances remained satisfactory	ОК	Р
	CDC having metallic enclosure, no contact between live parts and the enclosure	ОК	Р
8.2.9.1.2	Verification of resistance to shock load		N/A
8.2.9.1.3	Verification of resistance to torsional stress		
	Ground-mounted types of CDCs		
	horizontally rotatable frame, 60 mmx60mmx5 mm	60 mm x 60 mm x 5 mm	Р
	CDC with door(s) closed, torsional force 2x1000 N applied for 30 s as shown in figure 5	Torsional force 2x1000 N applied for 30 s	Р
	the door(s) remain closed	ОК	Р
	degree of protection remains IP34D	Tested with access probe	Р
8.2.9.2	Verification of impact force withstand	**	N/A
8.2.9.3	Verification of mechanical strength of doors		N/A
8.2.9.4	Verification of resistance to axial load of metal inserts in synthetic material		N/A
8.2.9.5	Verification of resistance to mechanical shock impacts induced by sharp-edged objects		N/A
8.2.9.6	Test of mechanical strength of the base		N/A
8.2.10	Verification of resistance to abnormal heat and flame		N/A
8.2.11	Verification of corrosion and ageing resistance		N/A









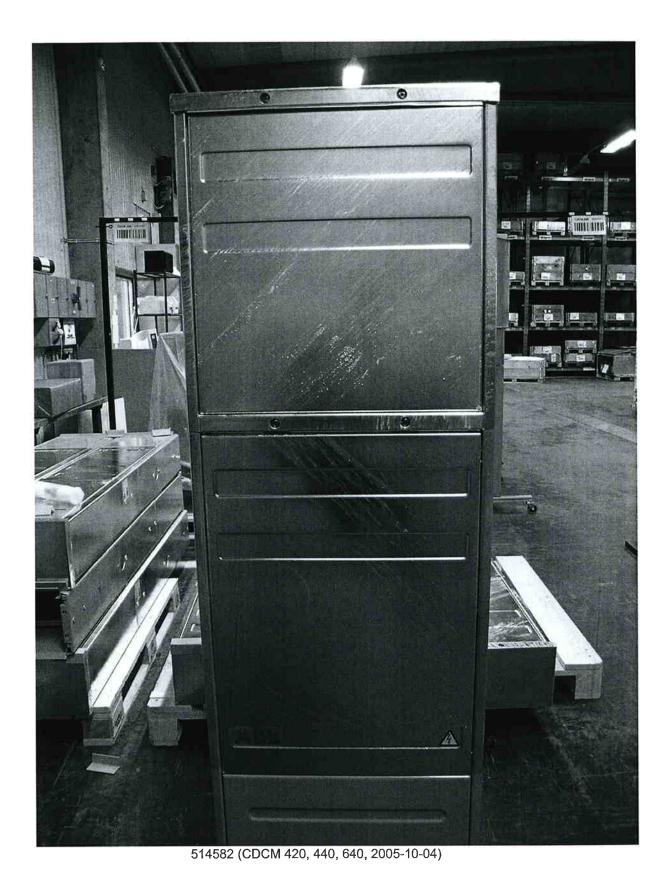














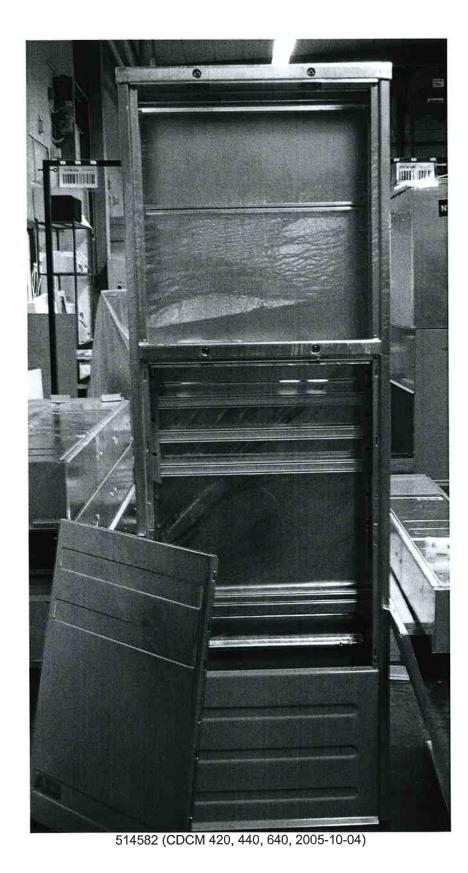
























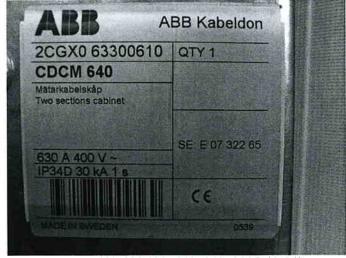




514582 (CDCM 420, 440, 640, 2005-10-04)

ABB	ABB Kabeldon
2CGX0 6330060 CDCM 440 Matarkabelskåp Two sections cabinet	9 QTY 1
400 A 400 V ~ IP34D 30 kA 0.2 s	SE: E 07 322 64
MADE IN SWEDEN	C€ 0838

514582 (CDCM 420, 440, 640, 2005-10-04)



514582 (CDCM 420, 440, 640, 2005-10-04)



