



IEC SYSTEM FOR CONFORMITY
TESTING TO STANDARDS FOR
SAFETY OF ELECTRICAL EQUIPMENT
(IECEE) CB SCHEME

Ref. Certificate No.

CH-2189

CB TEST CERTIFICATE

Issued by:	Electrosuisse		
Registration date:	2002-12-03		
Product:	Busbar System		
Applicant:	ABB Schweiz AG, CMC Low Voltage Products	Fulachstrasse 150, CH-8201 Schaffhausen	Switzerland
Manufacturer:	ABB Schweiz AG, CMC Low Voltage Products	Fulachstrasse 150, CH-8201 Schaffhausen	Switzerland
Factory:	ABB Schweiz AG, CMC Low Voltage Products	Fulachstrasse 150, CH-8201 Schaffhausen	Switzerland
Rating and principal characteristics:	Ue: 690VAC, Ie: max. 200A, Ulmp: 8kV Additional information see page 2		
Trade mark (if any):	Smisline, Smisline S		
Model/Type reference:	ZLS ...		
Additional information:	National differences: see EN standards		
Sample of product tested to be in conformity with IEC:	60439-1(ed.4), 60439-2(ed.3)	Additional standards tested: EN 60439-1:99, EN 60439-2:00	
Test Report Ref. No:	02-IK-0255.01 + .02		

This CB Test Certificate is issued by the
National Certification Body

electrosuisse >>

Electrosuisse
Luppenstrasse 1, CH 8320 Fehraltorf,
Switzerland

Signed by: Hans Roschmann

Date of issue: 2002-12-03

Nominal ratings:

Busbar system with feeders, adapters and terminals. (without devices like motor-starters, circuit-breakers and residual current operated circuit-breakers etc.)

Number of poles:	max. 8 3p+N / 2 additional bars PE+N 2 bars for auxiliary circuits, La + Lb
Rated operational voltage (U _e) :	max. 690VAC
Rated insulation voltage (U _i) :	690Vac
Rated impulse withstand voltage (U _{imp}) :	8kV
Overvoltage category:	III
Comparative tracking index (V)	250
Material group:	IIIb
Degree of protection:	IPXX (to realize by user)
Rated current :	Main circuit: 100A, mid feeding 160 or 200A Auxiliary circuit: 40A
Rated short-time withstand current (I _{sw}) :	10kA/300ms 10kA/50ms for auxiliary circuit
Rated peak withstand current (I _{pk}) :	17kA
Rated conditional short-circuit current (I _{cc}) :	---
Rated fused short-circuit current (I _{cf}) :	50kA, 690VAC
Rated peak fused short-circuit current (I _{pk}) :	105kA, 690VAC
SCPD:	160A gG DIN 00 with 50mm ² feeder unit 200A gG DIN 1 with 95mm ² feeder unit 40A gG DIN 00 with 10mm ² feeder unit 40A gG DIN 00 for Auxiliary circuit (La-Lb)
Rated conditional short-circuit current (I _{cc}) :	Main circuit and N+PE additional Bars: 32.5kA, 400VAC
Rated peak short-circuit current (I _{pk}) :	68.25kA _{pk} , 400VAC
Back up: circuit breaker SACE Tmax 250A	Circuit breaker SACE Tmax 250A
Rated diversity factor :	1
Protection degree:	IP2X (to realize by user)
Rated frequency :	50/60
Ambient air-temperature:	max. 55°C
Size of CU bars 3P+N+PE:	3 x 10mm (30mm ²)
Size of CU auxiliary bars La Lb:	2 x 5mm (10mm ²)
Size of CU additional busbars N+PE:	3 x 10mm (30mm ²)
Resistance R20:	0.58mΩ
Resistance R1:	0.71mΩ
Reactance X1:	0.15mΩ
Impedance Z1:	0.98mΩ