

Test Report issued under the responsibility of:



TEST REPORT IEC 60947-3

Low-voltage switchgear and controlgear Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units

Report Number. SGP-07532/SL2/CB

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Name of Testing Laboratory

preparing the Report: AIT Austrian Institute of Technology GmbH

Applicant's name.....: ETI Elektroelement d.d.

Address: 1411 Izlake, Obrezija 5, Slovenia

Test specification:

Standard: IEC 60947-3:2008, AMD1:2012, AMD2:2015

in conjunction with IEC 60947-1:2007, AMD1:2010, AMD2:2014

Test procedure....: CB-Scheme

Non-standard test method.....: N/A

Test Report Form No.....: IEC60947 3E

Test Report Form(s) Originator.....: OVE

Master TRF: Dated 2017-07

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Test item description:		oltage fuse-switch-disconi pole or three pole operate		
Trade Mark:	ETI			
Manufacturer: Jean N		Müller GmbH		
Model/Type reference:	SL2 1F SL2 3F	, , ,		
Ratings:: 400V a		a.c. up to 690V a.c. // 400A // 50-60Hz // 3-pole		
		ale) teating procedure	and tacting location(s):	
Responsible Testing Laboratory (as applicable				
CB Testing Laboratory:		AIT Austrian Institute of Technology GmbH		
Testing location/ address:		1210 Vienna, Giefinggasse 2, AUSTRIA		
Tested by (name, function, signature):		Hanna Raheb, MSC	flut	
Approved by (name, function, signatu	re):	Ing. Johann Ainetter	* finch	
☐ Testing procedure: CTF Stage 1	:	-	/	
Testing location/ address:		-		
Tested by (name, function, signature)	:	-		
Approved by (name, function, signatu	re):	-		
Testing procedure: CTF Stage 2:		<u>-</u>		
Testing location/ address:		-		
Tested by (name + signature)	:	-		
Witnessed by (name, function, signate	ure) .:	-		
Approved by (name, function, signatu	re):	-		
Testing procedure: CTF Stage 3				
Testing procedure: CTF Stage 4		_		
Testing procedure: CTF Stage 4		_		
Tested by (name, function, signature):		-		
Witnessed by (name, function, signature) .:		-		
Approved by (name, function, signature):		_		
Supervised by (name, function, signate	ture) :	-		

List of Attachments (including a total number of pages in each attachment):

Summary of testing:

Tests performed (name of test and test clause):

A type test has been performed according to

- IEC 60947-1:2007 (5th Edition) + A1:2010 + A2:2014
 IEC 60947-3:2008 (3rd Edition) + A1:2012 + A2:2015.

Clause:	Test:	Sample No.	
7	Constr. requirements	SL21P/1	SL23P/1
8.3.3	Test sequence I		
	- temperature-rise	SL21P/27	SL23P/27
	- dielectric properties	SL21P/8	SL23P/8
	 making and breaking capacity 	SL21P/914	SL23P/914
8.3.4	Test sequence II	SL21P/1520	SL23P/1520
8.3.5	Test sequence III	SL21P/2122	SL23P/2122
8.3.6	Test sequence IV	SL21P/2326	SL23P/2326
8.3.7	Test sequence V	SL21P/2728	SL23P/2728
Annex D.8.3.8	Critical Load current (test sequence VI)	Not applicable	
Annex D.8.3.9	Thermal cycling test	Not applicable	
Annex D.8.3.10	Climatic test	Not applicable	
Annex D.8.3.11	Temperature-rise with solar effects	Not applicable	

The low-voltage fuse-switch-disconnectors, single pole or three pole operated

- SL2 1P
- SL2 3P

passed the type test successfully.

Testing location:

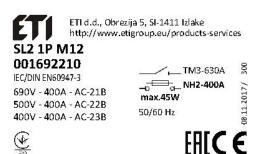
AIT Austrian Institute of Technology GmbH Business Unit Electric Energy Systems Giefinggasse 2 1210 Vienna Austria

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Summary of compliance with National Differences (List of countries addressed):

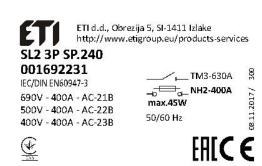
Copy of marking plate:

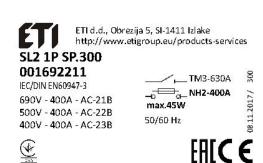
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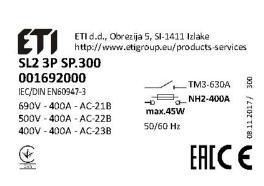














Test item particulars:	
- method of operation:	Dependent manual operation
- suitability for isolation:	Suitable
- degree of protection:	Device from front side, closed, with covers: IP30 Device in closed position: IP20 Device in open position: IP10
- number of poles	3
- kind of current:	AC
-in the case of a.c., number of phases and rated frequency	3, 50-60Hz
- number of positions of the main contacts (if more than two):	2
- breaking arrangement for fused devices:	Single break
Rated and limiting values, main circuit:	
- rated operational voltage U _e (V):	400V up to 690V
- rated insulation voltage U _i (V):	1000
- rated impulse withstand voltage U _{imp} (kV):	12
- conventional free air thermal current with fuse-links I _{th} (A)	400
- conventional free air thermal current with solid-links I _{th} (A)	630
- rated operational current I _e (A):	400
- rated uninterrupted current I _u (A):	400 (maximum power dissipation = 45W)
- rated frequency (Hz):	50-60
- utilization category:	AC-23B at 400V/400A AC-22B at 500V/400A AC-21B at 690V/400A
Short-circuit characteristic:	
- rated short-time withstand current I _{cw} (kA):	10kA/1s (SL2 1P) 15kA/1s (SL2 3P)
- rated short-time making capacity I _{cm} (kA)	-
- rated conditional short-circuit current:	120kA at 500V/400A 80kA at 690V/400A
Control circuits:	
Auxiliary circuits:	-
Relays and releases	-
Co-ordination with short-circuit protective devices:	
- kind of protective device:	Fuse-links NH2, up to 400A