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and according to BGBl. II, No. 244/2005 as certification body for personnel

Test Report

Project Designation

**TYPE TEST
AT D-TYPE FUSE-LINKS
D02
(400VAC/250VDC / gG)**

Client

ETI Elektroelement d.d.
1411 Izlake, Obrezija 5
SLOVENIA

Order from / No 10/2006 / ---

Project number 2.03.00938.1.0/D02/400-250/gG

Test Engineer Ing.J.Ainetter

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Annex	CB/CCA - Test Report No. 2.03.00938.1.0/D02/400-250/gG/CB/CCA (84 pages)

The results relate exclusively to the terms tested.

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Test item

Identification:

D-type fuse-links D02

Manufacturer: ETI Elektroelement d.d.

Trademark: ETI

Rated operational voltage(s): 400VAC and 250VDC

Rated operational current(s): 20A, 25A, 32A, 35A, 40A, 50A and 63A

Rated frequency: 45Hz to 62Hz and DC

Utilization category: gG

Technical data and description:

See page 4

Testing location, Period of testing

Testing location:

Österreichisches Forschungs- und Prüfzentrum Arsenal Ges.m.b.H.

Business Field Monitoring, Energy and Drive Technologies

Power Service Center

1210 Wien, Giefinggasse 2

AUSTRIA

Period of testing:

10/2006 to 01/2007 and 04/2008

Test(s)

Test(s) performed:

Type test

Test standard(s):

IEC 60269-1 Ed. 4.0:2006 and EN 60269-1:2007

IEC 60269-3 Ed. 3.0:2006 and HD 60269-3:2007

Test procedure(s):

CB-Scheme and CCA-Scheme

Result

The D-type fuse-links D02 (400VAC/250VDC / gG) have passed the type test successfully.

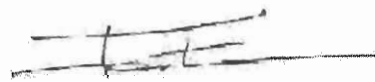
Test Engineer



Ing. J. Ainetter



Project Engineer,
technical responsibility

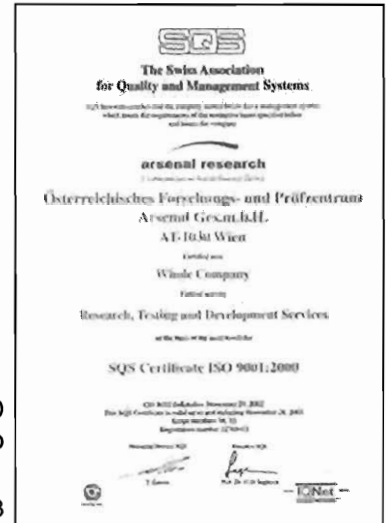


Ing. K. Farthofer

Testing laboratory



ACCREDITED
according to
EN ISO/IEC 17025
No. BMWA-92.714/0532-I/12/2006



CERTIFICATED
according to
ISO 9001
Reg. No. 12769-03



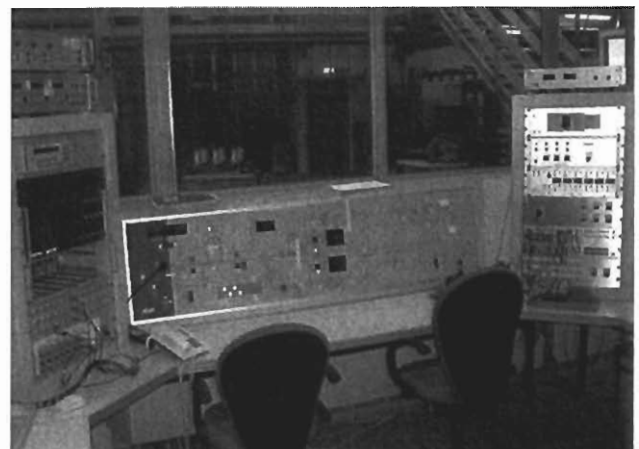
RECOGNIZED
CB TESTING LABORATORY
under the responsibility of OVE
as the National Certification Body



POWER SERVICE CENTER:



Control station for tests up to 15kA



Control station for tests above 15kA

Technical data and description

Test item	D-type fuse-links
Model/Type reference	D02
Identification reference	20A: 2212001-01 25A: 2212002-01 32A: 2212006-01 35A: 2212003-01 40A: 2212007-01 50A: 2212004-01 63A: 2212005-01
Manufacturer	ETI Elektroelement d.d.
Place of manufacture	Obrezija 5, 1411 Izlake, SLOVENIA
Size	02
Nature of supply	AC and DC
Utilization category	gG
Rated voltage	400VAC and 250VDC
Rated current	20A, 25A, 32A, 35A, 40A, 50A and 63A
Rated frequency	45Hz to 62Hz and DC
Rated breaking capacity	AC: 50kA DC: 8kA
Homogeneous series	20A 25A to 40A 50A to 63A
Material of fuse-link contacts	Fuse-links 20A to 40A: CuZn28 gal. Ni Fuse-links 50A to 63A: CuZn28 gal. Ag
Material of fuse-link body	Ceramic C111
Extinguishing means	Quartzsand

Measuring equipment

Measured quantity	Device	Manufacturer	Code
Voltage AC (up to 15kA)	Voltage divider 1:2000 Difference amplifier AM 502 Signal memory recorder TA 800	ÖFPZ Arsenal Tektronix W&W	- AM 502/1 TRA800
Current AC (up to 15kA)	Lin. current transformer LGSSO Burden 1Ω Signal memory recorder TA 800	Ritz ÖFPZ Arsenal W&W	WLIN5000/1 - TRA800
Voltage AC (above 15kA)	3-channel insulating measuring amplifier Signal memory recorder SMR II	Rohrer W&W	T908D SMRII64/1
Current AC (above 15kA)	Lin. current transformer LGSSO Burden 0,7mΩ Signal memory recorder SMR II	Ritz ÖFPZ Arsenal W&W	WLIN6000/1 - SMRII64/1
Voltage DC	Voltage divider 1:2000 Difference amplifier AM 502 Signal memory recorder TA 800	ÖFPZ Arsenal Tektronix W&W	- AM 502/1 TRA800
Current DC	Measuring shunt 4000A/60mV Difference amplifier AM 502 Signal memory recorder TA 800	Siemens Tektronix W&W	SH4000A60/1 AM 502/2 TRA800
Current (tests at reduced voltage)	Current transformer GE 4461 Current transformer AETt10 True-RMS amperemeter KI. 0,5	Goerz Siemens Norma	WI600/1 WI4000/1 A0,5/1
Voltage drop	Digital multimeter Fluke 185	Fluke	FLUKE185/1
Internal resistance	Resistance meter microhm 300/0	Stetter	MICROHM
Time	Signal memory recorders Stopwatch	W&W Junghans	TRA800, SMRII64/1 938-2
Temperature	Temp. recorder Polycomp SK 30 Temperature meter TESTO 901	H & B Testoterm	SK 30 TESTO
Mechanical strength	Test apparatus	ÖFPZ Arsenal	-
Torque	Torque meter	Rahsol	-
Clearances, creepage distances	Digital slide gauge CD-20D	Mitutoyo	SCHUB
Dimensions	Digital slide gauge CD-20D	Mitutoyo	SCHUB