CERTIFICATE

Issued to:
Applicant:
DEHN+ SÖHNE GmbH + Co. KG.
Elektrotechnische Fabrik
Hans-Dehn-Str. 1
92318 Neumarkt, Germany

Manufacturer/Licensee:
DEHN+ SÖHNE GmbH + Co. KG.
Elektrotechnische Fabrik
Hans-Dehn-Str. 1
92318 Neumarkt, Germany

Product	:	surge protective devices
Trade name	:	DEHN
Types/models	:	DEHNGUARD M

The product and any acceptable variation thereto is specified in the Annex to this certificate and the documents therein referred to.

DEKRA hereby declares that the above-mentioned product has been certified on the basis of:
- a type test according to the standard EN 61643-11:2002;IEC 61643-1:2005;
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961720

DEKRA hereby grants the right to use the KEMA-KEUR certification mark.

The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 9 November 2011 and expires upon withdrawal of one of the above mentioned standards.

Certificate number: 2095604.03

DEKRA Certification B.V.

drs. G.J. Zoetbrood
Managing Director

H.L. Schendstok
Certification Manager

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ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION

PRODUCTS
RvA C 001

KEMA KEUR

SPECIFICATION OF THE CERTIFIED PRODUCTS

Product data

Product	:	surge protective devices
Trade name	:	DEHN
Types	:	DG M TN 150 (FM), DG M TN 275 (FM), DG M TT 2P 275 (FM), DG M TN 275 NL (FM), DG M TT 2P 275 NL (FM), DG M 2W 150 (FM), DG M 2W 275 (FM), DG M TT 2P 320 (FM), DG M TT 2P 385 (FM)
Number of ports	:	One
SPD design topology	:	Voltage limiting and voltage switching
SPD type (and test class)	:	Type 2 (II)
Continuous operating voltage (Uc)	:	See further data
Nominal discharge current (In 8/20µs)	:	See further data
Maximum discharge current (Imax 8/20µs)	:	See further data
Voltage protection level (Up)	:	See further data
Short-circuit withstand capability (Ip)	:	See further data
Maximum overcurrent protection (fuse)	:	125 A gL/gG
Connection	:	1,5 mm²-35 mm² solid and stranded
Mounting method	:	Flush-type, for mounting on top hat rail (EN-50022)
Degree of protection	:	IP20

Further data

Type	Part.No.	Plugin module	Mode	Uc (V)	In (kA)	Imax (kA)	Up (kV)	Ip (kA)
DG M TN 150 (FM)	952201/952206	952012	L/N>PE	150	15	40	0,7	50
DG M TN 275 (FM)	952200/952205	952010	L/N>PE	275	20	40	1,25	50
DG M TT 2P 275 (FM)	952110/952115	952010	L>N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M TN 275 NL (FM)	952202/952207	952010	L/N>PE	275	20	40	1,25	50
DG M TT 2P 275 NL (FM)	952112/952117	952010	L>N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M 2W 150 (FM)	952118/952119	952012	R>N	150	15	40	0,7	50
		952050	N>PE	255	20	40	1,5	-
DG M 2W 275 (FM)	952120/952129	952010	R>T	275	20	40	1,25	50
		952010	R/T>PE	275	20	40	1,25	50
DG M TT 2P 320 (FM)	952130/952135	952013	L>N	320	20	40	1,5	25
		952050	N>PE	255	20	40	1,5	-
DG M TT 2P 385 (FM)	952111/952116	952014	L>N	385	20	40	1,75	25
		952050	N>PE	255	20	40	1,5	-

The surge protective devices may also be provided with remote contacts.
The type numbers are additional provided with suffix FM.

Ratings:

Rated voltage(Un):	250 Vac	250 Vdc	125 Vdc	75 Vdc
Rated current:	0,5 A	0,1 A	0,2 A	0,5 A
Connection:	max 1,5 mm² solid or flexible			

TESTS

Test requirements
EN 61643-11:2002 + A11:2007
IEC 61643-1:2005

Test result
The test results are laid down in DEKRA test file 2095604.03.

Remarks
This certificate replaces certificate 2095604.03 issued on 9 February 2010.

Certification history

February 2007
Initial certification

June 2009
Update to standard EN 61643-11/A11:2007

February 2010
Adding of types DG M TT 2P 385 (FM) and DG M TT 2P 320 (FM).
The update was carried out under KEMA project number 212940400.

November 2011
Adding of type DG M TN 150 (FM).
The update was carried out under DEKRA project number 214800200.

Conclusion
The examination proved that all test requirements were met.

Tested by : C.H.J. Addink

Checked by : C.C. Burger

Factory locations
DEHN+ SÖHNE GmbH + Co. KG., Elektrotechnische Fabrik
Hans-Dehn-Str. 1, 92318, Neumarkt, Germany