

CERTIFICATE

KEMA No.: 2095604.05

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

Products : Surge protective devices
Trade name : DEHN
Types : DEHNGUARD M

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

KEMA hereby declares that the above-mentioned product has been certified on the basis of:

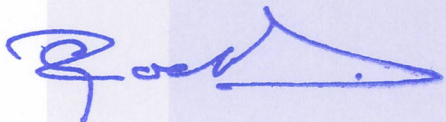
- a type test according to the standard EN 61643-11:2002
- an inspection of the production location according to CENELEC Operational Document CIG 021
- a certification agreement with the number 961720

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

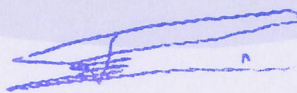
The KEMA-KEUR certification mark may be applied to the product as specified in this certificate for the duration of the KEMA-KEUR certification agreement and under the conditions of the KEMA-KEUR certification agreement.

This certificate is issued on: 9 February 2010 and expires upon withdrawal of one of the above mentioned standards.

KEMA Quality B.V.



drs. G.J. Zoetbrood
Managing Director



F.S. Strikwerda
Certification Manager

ACCREDITED BY
THE DUTCH COUNCIL
FOR ACCREDITATION



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SPECIFICATION OF THE CERTIFIED PRODUCT

Product data

Product	:	Surge protective devices
Trade name	:	DEHN
Types	:	DG M 4W 275 (FM) DG M TNS 275 (FM) DG M TNS 275 NL (FM) DG M TT 275 (FM) DG M TT 275 NL (FM) DG M TT 320 (FM) DG M TT 385 (FM) DG M TNS 150 (FM) DG M TNS 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 mm ² -35 mm ² 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 TNS 275 (FM)	952400/952405	952010	L/N>PE	275	20	40	1,25	50
DG M TT 275 (FM)	952310/952315	952010	L >N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M TT 275 (FM)	952315/S SN1725	952010	L >N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M 4W 275 (FM)	952431/952439	952010	R>S	275	20	40	2,5	50
		952010	R>T	275	20	40	2,5	50
		952010	S>T	275	20	40	2,5	50
		952010	S/T>N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M TNS 275 NL (FM)	952402/952407	952010	L/N>PE	275	20	40	1,25	50
DG M TT 275 NL (FM)	952312/952317	952010	L>N	275	20	40	1,25	50
		952050	N>PE	255	20	40	1,5	-
DG M TT 320 (FM)	952320/952325	952013	L>N	320	20	40	1,5	25
		952050	N>PE	255	20	40	1,5	-
DG M TT 385 (FM)	952311/952316	952014	L>N	385	20	40	1,75	25
		952050	N>PE	255	20	40	1,5	-
DG M TNS 150 (FM)	952403/942408	952012	L/N>PE	150	15	40	0,7	50
DG M TNS 385 (FM)	952404/952409	952014	L/N>PE	385	20	40	1,75	25

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 mm ² 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 KEMA test file 2095604.05.

Remarks

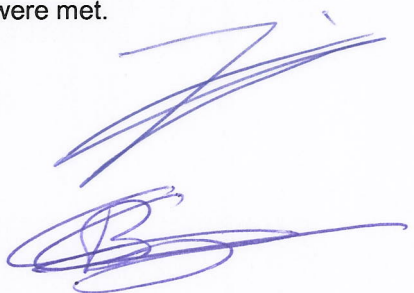
This certificate replaces certificate 2095604.05 issued on June 11, 2009.

Certification historyFebruary 2007
initial certificationJune 2009
update to standard EN 61643-11/A11:2007February 2010
Added types: DG M TT 320 (FM), DG M TT 385 (FM), DG M TNS 150 (FM)
and DG M TNS 385 (FM)
The update was carried out under KEMA project number 2129404.00**Conclusion**

The examination proved that all test requirements were met.

Tested by : C.H.J. Addink

Checked by : C.C. Burger

Two handwritten signatures in blue ink. The top signature is for C.H.J. Addink and the bottom signature is for C.C. Burger.**Factory locations**Dehn & Söhne GmbH & Co. KG, Elektrotechnische Fabrik
Hans-Dehn-Str. 1, 92318, NEUMARKT, Germany