



# IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION  
IEC Certification System for Explosive Atmospheres

අන්තර්ජාතික විදුලි තාක්ෂණ කමිෂන් (IEC)

රාජ්‍ය අංකය: IECEx DEK 18.0076X      ක්‍ර. අංකය:      රාජ්‍ය අංකය:

වර්ගය: Current      වර්ගය: I j 5+

වර්ගය: -, 4, , (, /

විකුලය: ROSE Systemtechnk GmbH  
m r b, . (, 0  
. - / 02 K j r R n a g l  
Germany

විස්තරය: Power distribution, switchgear and control box Series GUB

වර්ගය: nnj r t 5

වර්ගය: Ex db, Ex tb

වර්ගය: s ))) O / ' O 0 j n O 1 B  
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R. Schuller

වර්ගය: K j n d j i 5

Certification Manager

වර්ගය: N d i q m 5  
අන්තර්ජාතික විදුලි තාක්ෂණ කමිෂන් (IEC)

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.) O c a h r a d o i n c p g h t j i g m k r i p a l a g g  
-) O c a h r a d o a i j o m i n a m g i m h a l n a c k r i k r a j a c c a h n p d b j t )  
. ) O c N o q n i p a c i a d a j a c c a h r a d o h t q n a d t q a d a b r r r d s j h j m p n j a c c a h L M j )



රාජ්‍ය අංකය: t 5

DEKRA Certification B.V.  
Meander 1051  
6825 MJ Arnhem  
Netherlands





# IECEx Certificate of Conformity

Model No: IECEx DEK 18.0076X      K b - ja.  
o ja dnp 5      -+, 4(, , (, /      Dnp I j 5+

H i pa qmnr      **ROSE Systemtechnk GmbH**  
m r b, . (, 0  
.-/02 Kjr R nca g  
**Germany**

dgj g      **Phoenix Mecano (India) Pvt. Ltd.**      **PM Komponenten B.V.**  
h i pa qmnr      Kgio (D      C q inom o, ++  
g ajin5      Kani bpoD pna g m 'KjnoBcjgr      2++0 B j ail c h  
Kgo. 33. 34' Qab c m'O of Hgocd      **Netherlands**  
ad Kpi ( /, - , , 0  
**India**

**See Annex 2 for all manufacturing locations**

Ocah radd o ah dnp nq radd ajia o n hkg n 'mkmn io ad jakrj p ajir n nn nn i ono i ajpi g jhkgr ac  
a D Noi m gho gr i a oca h i pa qmnr lp gntnoh 'mgabq ac skrj p on j q m t acah radd o'r n  
nn nn i ajpi g jhkgr ac a D sLp gntnoh ml pnh io) Ocah radd o ah b mio n p e oq ac ji ajin n n o j pod  
D sN c h Mpgn' D s+- i k m aj i g j p h i o n n h i

### STANDARDS 5

Oc l p kh io i it ko g q m aj i n g d n k ad d a c n c p g j acah radd o i a d i ad j p h i o n r n aj pi  
g j h k g r ac a aj g r d b n o i m n

IEC 60079-0:2017      skgnd      dhjnc mn (K ro+5 l p kh io (B i mgml pnh io n  
aj i 5)+

IEC 60079-1:2014-06      skgnd      dhjnc mn (K ro, 5 l p kh io krj o aj i t agh krj a i g n p m n  
aj i 5)+

IEC 60079-31:2013      skgnd      dhjnc mn (K ro, 5 l p kh io p n o d i aj i krj o aj i t i g n p m o  
aj i 5

Ocah radd o **does not** d d o j h k g i r ac n a d i k r j r h i m l p n h i o n  
j a r a c i a j n s k m n n g d g d a c N o i m n g h o j q )

### TEST & ASSESSMENT REPORTS:

n h k g n j a c l p k h i o g h o c n n p n n a p g h o c s h d aj i i o n m l p n h i o n n m j m d 5

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I G F s o m , 4 ) + + 4 / + +

L p g n n n h i o m k j n r

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**Annex 1 to IECEx DEK 18.0076X**  
**Annex 1 to NL/DEK/ExTR19.0094/00**

**Description**

Power distribution, switchgear and control assembly Series GUB, made of aluminium, stainless steel or cast iron with a threaded cover, with or without display window, are intended to be used in potentially explosive atmospheres. Inside and in the walls or cover of the enclosure electrical apparatus such as terminals, switching-, control-, regulating-, measuring- and indicating devices can be mounted.

The GUB series consist of 12 types:

- 
- 

**Marking**

Where applicable, the equipment marking is completed by the

The equipment is marked with Group IIB if at least 20% of each internal cross-sectional area remains free; it may be marked with Group IIC if at least 40% of each internal cross-sectional area remains free.

**Ambient temperature range**

Maximum ambient temperature range (for details see table below):

- -20 °C to +110 °C
- -20 °C to +75 °C

**Degree of protection**

Degree of protection IP66 according to IEC 60529 and IEC 60079-0.

**Electrical ratings**

The electrical ratings are dependent on the built-in components and equipment, but do not exceed 1.1 kV ac/dc nominal, 415 A and 240 mm<sup>2</sup>. Actual ratings are stated on the nameplate.

**Options**

The threaded flamepaths may be provided with a max. 0.008 mm thick electro-plating.

The enclosures may be supplied in natural finish, electro-plated, powder coated or liquid painted. The painting thickness does not exceed 0.18 mm.

### Thermal data

The relation between GUB type, temperature class, maximum surface temperature, maximum ambient temperature and maximum allowed power dissipation is given in the table below.

Temperature class	T6			T5					T4				
Max. surface temperature*	T85 °C			T100 °C					T135 °C				
Maximum ambient temperature (°C)	40	50	60	40	50	55	60	75	40	50	60	90	110
GUB Type:	Maximum allowed power dissipation (W):												
01	82	-	38	-	-	82	-	38	-	-	-	82	38
01W		-		-	-		-		-	-	-	-	-
02	86	-	45	-	-	86	-	45	-	-	-	86	45
02W		-		-	-		-		-	-	-	-	-
03	114	-	64	-	-	114	-	64	-	-	-	114	64
03W		-		-	-		-		-	-	-	-	-
04	170	120	70	230	180	170	126	70	410	376	316	170	70
04W									-	-	-	-	-
05	218	168	91	291	226	218	159	91	491	451	400	218	91
05W									-	-	-	-	-
06	250	182	150	405	282	250	215	150	723	609	472	250	150
06W									-	-	-	-	-
* : values have been determined without a dust layer													
-													

## Annex 2 to Certificate of Conformity IECEx DEK 18.0076X

### Manufacturing locations

Rose Systemtechnik GmbH  
Erbeweg 13-15  
32457 Porta Westfalica  
Germany

Phoenix Mecano Kecsemet KFT  
Szent István krt. 24  
6000 Hungary  
Hungary

PM Komponenten N.V.  
Karrewegstraat 124  
9800 Deinze  
Belgium

PM Komponenten B.V.  
Havenstraat 100  
7005 AG Doetinchem  
The Netherlands

Phoenix Mecano S.E. Asia Pte. Ltd.  
53 Ubi Ave 3 #04-01  
Colourscan Building  
Singapore 408863

Phoenix Mecano (India) Private Limited  
Pirangut Industrial Area, Post Ghotawade  
Plot 388, Village Bhare, Taluka Mulshi  
Dist. Pune - 412115  
India

Phoenix Mecano India Pvt. Ltd Plant III, Gat No 408, 410 & 412, Village Urse, Taluka Maval,  
Talegaon Urse Road, Dist. Pune 410506, India

Mecano Components Co., Ltd/012  
No.1001, Jiaqian Road, Nanxiang, Jiading District  
Shanghai P.R.C. 201802  
China

Phoenix Mecano Inc.  
7330 Executive Way  
Frederick  
MD 21704  
USA

JKE Co., Ltd.  
34, Mieumsandan-ro, 105bone-gil, Gangseo-gu,  
Busan, Korea

Phoenix Mecano Saudi Arabia LLC, Building no 3267, king Abdul Aziz Road Unit No1, Dharan 3451,  
Dammam, Kingdom of Saudi Arabia

Rose Systemtechnik Middle East, P.O. Box 8993, Sharjah, U.A.E