

Operating and ambient conditions

KV Small-type distribution boards

Cable entry systems

KV Small-type distribution boards and KWH Meter boxes

Empty boxes

ESM ..., EVS 16

AVS 16

Application area

IP 54/65 design:

Suitable for indoor installation - normal environment and/or protected outdoor

Ambient temperature

- Average value over 24 hours
- Maximum value
- Minimum value

+ 35° C
+ 40° C
- 5° C

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+ 60° C
- 25° C

+ 35° C
+ 40° C
- 25° C

+ 55° C
+ 70° C
- 25° C

Relative humidity

- short-time

50% at 40° C
100% at 25° C

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-

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-

-
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Fire protection

in the case of internal faults

Demands

placed on electrical devices from standards and laws

Minimum requirements

- Glow wire test in accordance with IEC 60 695-2-11:
- 650° C for boxes and cable glands
- 850° C for parts of insulating material necessary to retain current carrying parts in position

Burning behaviour

- Glow wire test IEC 60 695-2-11
- UL Subject 94

750° C
V-2
flame-retardant
self-extinguishing

750° C
V-2
flame-retardant
self-extinguishing

750° C
-
flame-retardant
self-extinguishing

750° C
V-2
flame-retardant
self-extinguishing

Degree of protection against mechanical load

Toxic behaviour

IK08 (5 Joule)

IK08 (5 Joule)

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halogen-free
silicone-free

halogen-free
silicone-free

halogen-free
silicone-free

"Halogen-free" in accordance with IEC 754-2 "Common test methods for cables - Determination of the amount of halogen acid gas".

To material properties see technical data.

Operating and ambient conditions	KV PC..
Application area	KV PC- are suitable for the outdoor installation - harsh environment and / or outdoor. However the climatic influences and effects on the equipment are to be considered. ¹⁾
Ambient temperature - Average value over 24 hours - Maximum value - Minimum value	+ 35° C + 40° C - 5° C
Relative humidity - short-time	50% at 40° C 100% at 25° C
Fire protection in the event of internal faults	Demands placed on electrical devices from standards and laws Minimum requirements - Glow wire test in accordance with IEC 60 695-2-11: - 650° C for boxes and cable glands - 850° C for conducting components
Fire protection in the event of specific risks or hazards	Demands placed on electrical installations and devices in areas and facilities subject to fire risk, e.g. DIN VDE 0100 Part 482, official regulations, VdS directives Minimum requirements - Glow wire test in accordance with IEC 60 695-2-11: - 850° C for boxes and cable glands - 850° C for cavity wall installation - Use of fire resistant cables
Burning behaviour - Glow wire test IEC 60 695-2-11 - UL Subject 94	960° C V-2 flame-retardant self-extinguishing
Degree of protection against mechanical load	IK 08 (5 Joule)
Toxic behaviour	halogen-free ²⁾ silicone-free

1) Supplementing references regarding outdoor installation - harsh environment and / or outdoor:
 - The materials used for the Mi System are basically UV resistant, so that the mechanical resistance of the boxes is maintained during UV effect.
 Depending on the intensity of the UV effect e.g. transparent lids can become intransparent.
 - The top side of the boxes should be protected by a cover against weather influences such as rains, ice and snow.
 - Further on, also chemical influences have to be considered with the selection of the installation place - apart from the IP rating and climatic effects.
 - In order to keep the maximum permissible ambient temperature of the installed equipment as well as for the prevention from condensation additional measures as ventilation and/or heating may be necessary.

2) "Halogen-free" in accordance with IEC 754-2 "Common test methods for cables - Determination of the amount of halogen acid gas".