

**INSTALLATION INSTRUCTIONS  
& CONDITIONS FOR SAFE USE**

Ex eb IIC Gb

**Modular TERMINAL Blocks: W- Series****KEMA 01 ATEX2186U****IECEx DEK 21.0033U****Notified Body No. of Ex - QA: 0344****Label print on package unit: 0344****Standards:**EN IEC 60079-0:2018 and EN 60079-7:2015 A1:2018  
IEC 60079-0: 7th Edition and IEC 60079-7: 5.1th Edition**Modular Terminal Blocks: WDU 240**

		Order No
Version:	WDU 240*	1802780000
Accessories: end bracket	Type WEW 35/1*	1059000000
Terminal rail	TS 35/... acc.to IEC 60715	
Cross-connection	WQB 240/2 WQB 240/3	1802790000 1802800000

\* in all colours

**Insulation material:**

- Type	Wemid
- Tracking resistance (A) to IEC 60112	CTI $\geq$ 600
- Flammability class to UL 94	V0
- Operating temperature range	-60°C...+110°C (insulating material limit)
- Ambient temperature range	-60°C...+40°C (for T6 applications)
- Ambient temperature range	-60°C...+55°C (for T5 applications)
- Ambient temperature range	-60°C...+70°C (for T4 applications)

**Technical data according to IEC/EN60079-7 (increased safety "eb"):**

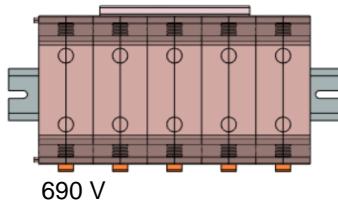
	<b>WDU 240</b>
- Rated voltage	1.100 V
- Rated current	350 A
- Temperature rise with rated current	$\leq$ 40 K / 350 A
- Rated current with cross connection	270 A
- Contact resistance with rated conductor	0,03 m $\Omega$
- Conductor cross section rigid	70 - 240 mm $^2$
- Conductor cross section flexible	70 - 240 mm $^2$
- cross section, American Wire Gauge	2/0 AWG - 500 kcmil
- conductor cross section flexible with ferrule acc. to DIN 46228 part 1 + 4	70 - 240 mm $^2$
- 2 conductors with same cross-section rigid	35 - 95 mm $^2$
- 2 conductors with same cross-section flexible	50 - 95 mm $^2$
- Tightening torque range for cross connection	25 - 30 Nm
- Stripping length	40 mm

## IECEx / ATEX Terminal and Cross-Connection Arrangements:

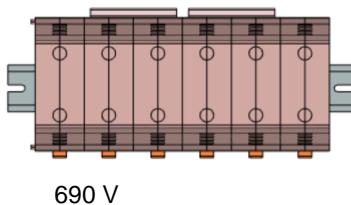
**Max voltage data according to IEC/EN60079-7 (increased safety "eb"):**

### **Application Case**

#### **A - Continuous**



#### **B - Adjacent**



### **Note:**

If smaller cross sections than the rated cross section are used, the belonging lower current has to be laid down in the IECEx/EC-Type Examination Certificate of the complete apparatus.

### **Mounting instructions:**

Regarding the use of accessories the instructions of the manufacturer must be followed.

### **Schedule of Limitations:**

The Terminal Blocks shall be mounted in a certified enclosure that meets the requirements of an approved type of protection as specified in IEC 60079-0 clause 1, with a degree of protection at least as required for Ex e.

When assembling with other certified series and sizes and using the associated accessories, the required creepage distances and clearances have to be observed.

The installation instruction of the manufacturer shall be followed e.g. for the use of cover, jumpers, end brackets. The data regarding current and associated temperature rise shall be used as guideline for the given conductor cross sections. The cross section has influence on the temperature rise which shall be assessed in the end application.

If the Terminal Blocks are used in electrical apparatus of temperature classes T1 up to T5, the highest temperature of the insulating material shall not exceed the maximum value of the operating temperature range.

If the Terminal Blocks are used in electrical apparatus of temperature classes T6 the permissible ambient temperature range is  $-60^{\circ}\text{C} < \text{Tamb} < +40^{\circ}\text{C}$ .

When using ferrules for flexible conductors, it must be ensured that the test requirements of DIN 46228-1 and DIN 46228-4 are complied with. Therefore we recommend the use of the appropriate Weidmüller crimping tools. The length of the copper ferrule must correspond to the specified stripping length.

### **Essential Health and Safety Requirements:**

Concerning ESRs this Schedule verifies compliance with the Annex II of ATEX directive only. By placing the product on the market, the manufacturer declares compliance with other relevant Directives, and all other safety related requirements including those of Annex II of this Directive.