2-conductor fuse terminal block; with pivoting fuse holder; for $5 \times 20 \text{ mm}$ miniature metric fuse; without blown fuse indication; for DIN-rail $35 \times 15 \text{ and } 35 \times 7.5$; 4 mm^2 ; CAGE CLAMP®; $4,00 \text{ mm}^2$; gray

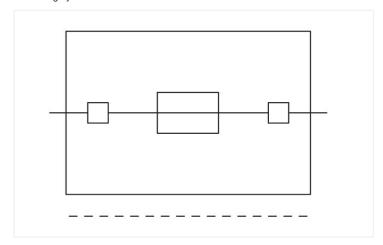


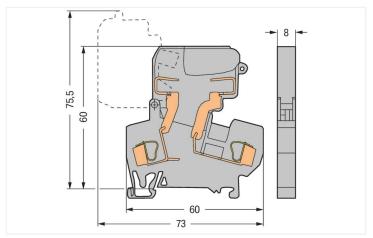
https://www.wago.com/281-611





Color: gray





Dimensions in mm

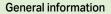
Power Loss

Fused disconnect terminal block with a pivoting fuse holder, for (5 x 20) mm glass cartridge fuse, without blown fuse indication (281-611)

Electrical data			
Ratings per	IEC	'EN 60947-	7-3
Overvoltage category	III	III	II
Pollution degree	3	2	2
Nominal voltage	800 V	-	-
Rated surge voltage	8 kV	-	-
Rated current	10 A	_	_

Power loss (max.) P _{i (max.)} (note)	When selecting glass cartridge fuses, make sure that the maximum power loss listed below is not exceeded. The power loss is determined according to IEC or EN 60947-7-3/VDE 0611-6 at 23°C. The temperature rise of the terminal block must be checked according to their application and mounting. Higher ambient temperatures represent an additional impact on miniature fuses. Therefore, in such applications, the rated current must be reduced if necessary. More details are available from the manufacturers.
Power loss P _I max. overload and short- circuit protection (individual arrange- ment)	2.5 W
Power loss P _I max. overload and short-circuit protection (group arrangement)	1.6 W
Power loss P_{\parallel} max. short-circuit protection (individual arrangement)	4 W
Power loss P_{\parallel} max. short-circuit protection (group arrangement)	4 W

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Fuse receptacle pivoting

Fuse type Cylindrical fuse; 5 x 20 mm



Plus" **additionally** on the whole surface of the aluminum conductor before termi-

Please note that the nominal currents must be adapted to the reduced conductivity of the aluminum conductors::

 $0.08 \dots 4 \ mm^2 \ / \ 28 \dots 12 \ AWG$

0.08 ... 4 mm² / 28 ... 12 AWG

 $9 \dots 10 \, \text{mm} \, / \, 0.35 \dots 0.39 \, \text{inches}$

nation.

2.5 mm² = 16 A 4 mm² = 22 A

Front-entry wiring

Connection data			
Connection points	2	Connection 1	
otal number of potentials	2	Connection technology	CAGE CLAMP®
umber of levels	1	Actuation type	Operating tool
		Connectable conductor materials	Copper Aluminum
		Connectable conductor materials (note)	Terminating Aluminum Conductors WAGO spring clamp terminal blocks are suitable for solid aluminum conductors up to 4 mm²/12 AWG if WAGO "Alu-Plus" Contact Paste 249-130 is used for termination.
			"Alu-Plus" Contact Paste Advantages:
			 Automatically destroys the oxide film during clamping. Prevents fresh oxidation at the clamping point. Prevents electrolytic corrosion between aluminum and copper conductors (in the same terminal block). Provides long-term protection against corrosion.
			Using terminal blocks with CAGE CLAMP® Spring Pressure Connection Technology, aluminum conductors must first be cleaned with a blade and then immediately be inserted into the clamping units filled with "Alu-Plus" Contact Paste.
			It is also possible to apply WAGO "Alu-

Physical data	
Width	8 mm / 0.315 inches
Height	60 mm / 2.362 inches
Depth from upper-edge of DIN-rail	60 mm / 2.362 inches

Solid conductor

Wiring direction

Strip length

Fine-stranded conductor

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Mechanical data	
Design	angled
Mounting type	DIN-35 rail
Marking level	Center marking

Material data	
Note (material data)	
	<u>Information on material specifications can be found here</u>
Color	gray
Material group	I
Insulation material	Polyamide (PA66)
Flammability class per UL94	V0
Fire load	0.318 MJ
Weight	17 g

Environmental requirements	
Processing temperature	-35 +85 °C
Continuous operating temperature	-60 +105 ℃

Commercial data	
Product Group	1 (Rail Mounted Terminal Blocks)
eCl@ss 10.0	27-14-11-16
eCl@ss 9.0	27-14-11-16
ETIM 8.0	EC000899
ETIM 7.0	EC000899
PU (SPU)	50 pcs
Packaging type	Вох
Country of origin	IN
GTIN	4045454614591
Customs tariff number	85369095000

Environmental Product Compliance	
RoHS Compliance Status	Compliant,No Exemption

Approvals / Certificates

General approvals







9 557.		
Approval	Standard	Certificate Name
CSA CSA Group	C22.2	1505034
KEMA/KEUR DEKRA Certification B.V.	EN 60947	NTR NL-7135
KEMA/KEUR DEKRA Certification B.V.	EN 60947	2160584.31
UR UL International Germany GmbH	UL 1059	E45172

Declarations of conformity and manufacturer's declarations

Approval	Standard	Certificate Name
EU-Declaration of Confor- mity WAGO GmbH & Co. KG	-	-
UK-Declaration of Conformity WAGO GmbH & Co. KG	-	-

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Approvals for marine applications



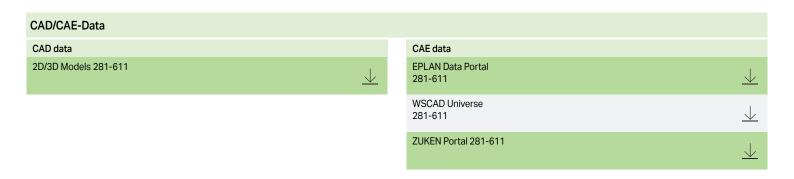
Approval Standard Certificate Name

ABS - 20-HG1941090-PDA

American Bureau of Shipping

Downloads Environmental Product Compliance Compliance Search Environmental Product Compliance 281-611









Installation Notes

Conductor termination



CAGE CLAMP® connection
Inserting a conductor.
With ferruled conductors, it is necessary to use a terminal block one size smaller than the conductor's nominal cross-secti-

Commoning

on.



Commoning

Distributing current to several fuse-protected circuits via insulated push-in type jumpers.

Testing



Voltage test, either at input or output with fuse holder in closed position (live)



Through test with fuse holder in open position (no voltage)



Voltage test at input in the test slot of the current bar



Testing voltage at the output via separate test slot.



Measuring current between jumper slot and separate test slot.



Testing voltage (input side) via test plug adapter (280-404, shown) or test plug (281-407).



 $5\,x\,20$ mm, $5\,x\,25$ mm and $\mbox{\em 4}"\,x\,1"$ fuse holders are fitted with stops on the inside of the cover.

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Security



Touch-proof protection in all positions of the fuse holder



Fuse holder will remain safely locked open in vertical assemblies.

Locking system



Ganging several fuse holders with an interlocking link (example shows 8 mm wide terminal blocks).

Application



Fuse replacement:

Before replacing a fuse, pivot the fuse holder into the locked open position.



Fuse replacement:

One end of the fuse is automatically ejected from the holder when opening the cover



Fuse replacement:

Easily removing a fuse by hand.



Fuse replacement:

Insert a new fuse and snap the cover closed.



Storing a spare fuse (fuse holder without blown fuse indication) for the types of fuses 5×20 mm, 5×25 mm und 5×30 mm.



Fused disconnect or disconnect terminal blocks with a width of 8 mm can be assembled adjacently. At the end of an assembly, or if there is **no** adjacent fused disconnect or disconnect terminal block, an end or intermediate plate must be used.

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Marking







Each fuse holder features two marker slots for custom WMB Multi markers (example shows 8 mm wide terminal blocks).

Subject to changes. Please also observe the further product documentation!