

Data sheet

DC11 Power entry module

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1 General Description

General :

The power entry modules types **DC11** series are suitable for use in information technology equipment acc. to standard IEC / EN / UL 60950-1. V-Lock notch is standard.
Suitable for use in medical equipment acc. to standard IEC /EN /UL 60601-1
The power entry module is internally completely wired or unwired.

It consists of the following parts :

Appliance inlet:

For a pin temperature of max. 70° C.
The appliance inlet meets the following standards :
- IEC / EN 60320-1
- IEC / EN 60320-3 / C14 and C18
- UL 60320-1
- CSA 22.2 no. 60320-1
- GB 17465.1

Protection class I (L / N / PE) or protection class II (L / N) according to IEC 61140.

Rocker-switch:

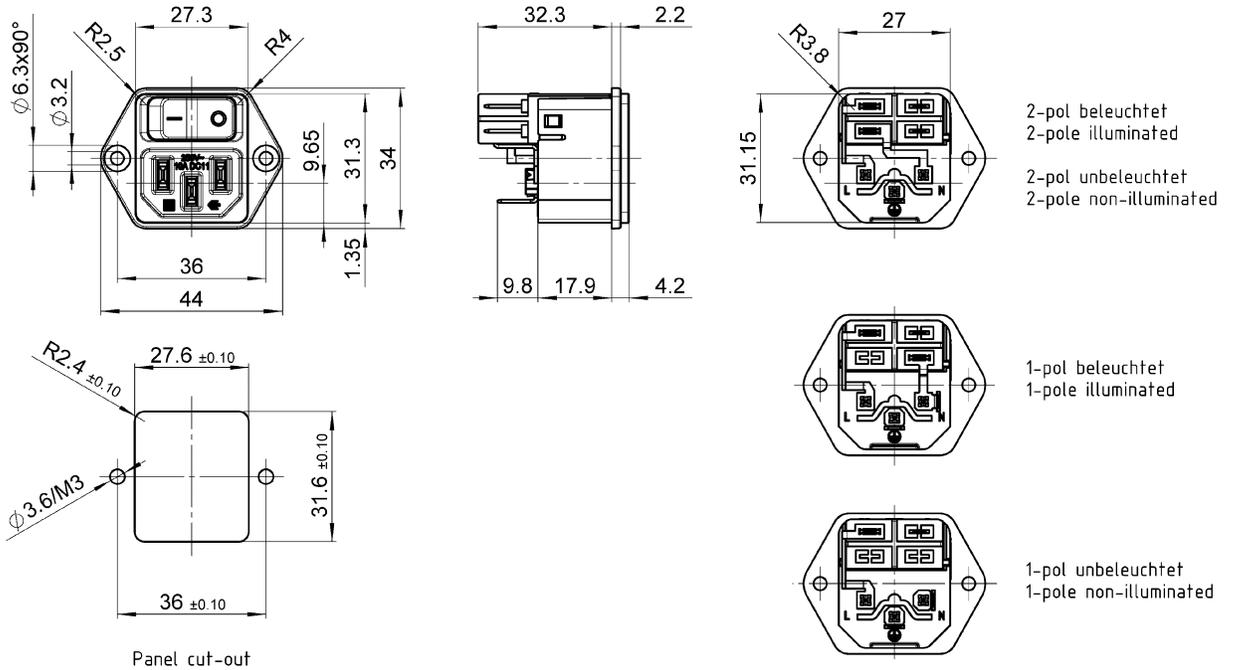
The rocker switch non-illuminated is marked by 0 and I or 0 and —
The rocker switch illuminated is marked by 0

The rocker-switch meets the following standards :
- IEC / EN 61058-1
- UL 61058-1
- CSA C22.2 no. 61058-1

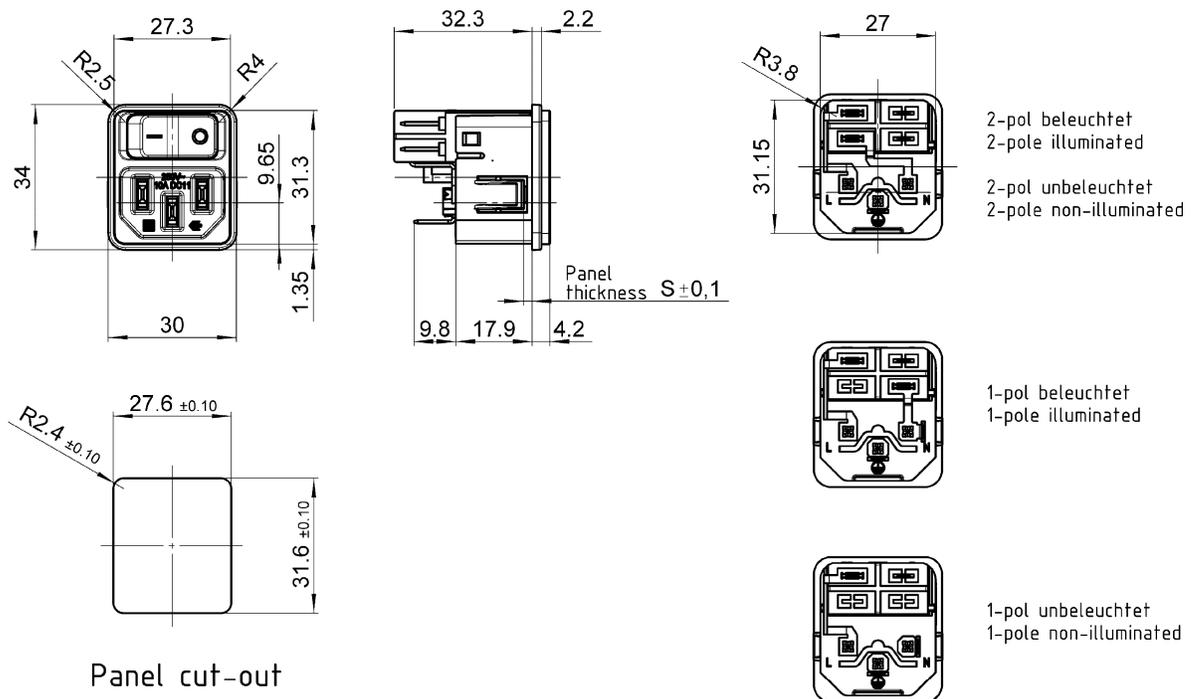
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2 Dimensions

Screw Version



Snap-in version



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3 Electrical Data

3.1 General

Rated voltage U_n	250 V AC 50 / 60 Hz	
Rated current I_n	10 A 15 A	according to IEC / EN according to UL, CSA
Insulation resistance (500 V DC ; 1 min.)	> 100 M Ω > 1000 M Ω	between live parts of different potentials. (Rocker-switch) between protective conductor PE and live parts.
Dielectric strength (50 Hz ; 1 min.)	> 2.5 kV > 3 kV	between live parts of different potentials. between protective conductor PE and live parts.
Impulse withstand voltage \hat{U} 1.2/50	> 4 kV > 6 kV	between live parts of different potentials between protective conductor PE and live parts
Overvoltage category	I - III	according to IEC 60664-1
Creepage and creepage Distances	> 3 mm > 4 mm	between live parts of different potentials. between protective conductor PE and live parts.
Pollution degree	1 - 3	according to IEC 60664-1
Protection class (Protection against electric shock)	Suitable for appliances of protection class I and II, acc. to IEC 61140 respectively acc. to VDE 0106 /part 1	

3.2 Appliance inlet

Dimensions acc. to IEC / EN 60320-1	C 14 for protection class I (L / N / PE) or C 18 for protection class II (L / N)
Pin temperature	max. 70° C

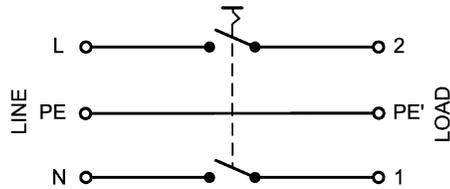
3.3 Rocker-switch

Rated voltage U_n	250 Vac according to VDE, UL, CSA	
Contact rating	20 (12) A 250 V AC 12 (12) A 250 V AC () = at inductive load, $\cos \varphi = 0.6$	10000 switch operations 50000 switch operations
Making capacity	Capacitive inrush current max. 100 A 3-4 ms Continuous current 5 A, 10000 switch operations	
Contact opening width	> 3 mm	
Manufacturer	Marquardt GmbH, D-78604 Rietheim-Weilheim Alysia Electronics & Hardware Co.Ltd., CN-999077 Hong Kong	
Type designation	01551.1702-02, 01552.170x-02 non-illuminated 01555.170x-02 illuminated	
Approvals	VDE, UL, CSA	

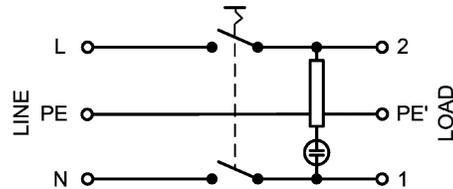
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3.4 Diagrams

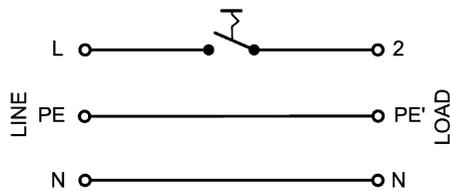
2-pole switch non-illuminated



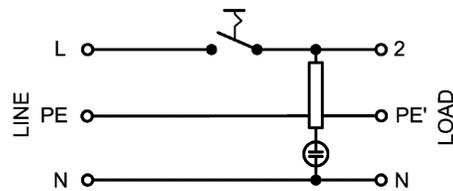
2-pole switch illuminated



1-pole switch non-illuminated



2-pole switch illuminated



4 Mechanical Data

4.1 Mounting

The power entry module for screw-on version mounted from front or rear side and snap-in version mounted on a panel from front side of the housing.

This mounting-system has the advantage of a simple and sure mounting. V-Lock notch standard.

4.2 Terminals

Appliance inlet by wired
by unwired

Protective conductor PE as quick-connect terminal 4.8x0.8 mm
Terminals L / N and PE as quick-connect terminal 4.8x0.8 mm according to IEC 61210 or solder terminals.
All terminals tin-plated,

Rocker-switch

Quick-connect terminals 4.8x0.8 mm according to IEC 61210

Solderability
Solder terminal

350° C / 2 s acc. to IEC 60068-2-20, test Ta method 2

Resistance to soldering heat
Solder terminal

350° C / 10 s acc. to IEC 60068-2-20, test Tb method 2

4.3 Packing and weight

Original packing 50 pcs.

Net weight gr. per 1 pcs.			wired		unwired	
			2pol.	19	18.5	18
	Screw mounting	2pol.	17	16.5		
	Snap-in mounting	1pol.	16.5	16		

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5 Materials

Socket*	Type PA6/66 polyamide Flame class UL94 V-0 (≥0.4 mm thick) Comparative tracking index CTI 600 V Temp.-index RTI, electr. 120° C UL File-no. E41871
Live parts	Copper alloy, protected against corrosion.
Rocker-switch*	Type PA6/66 polyamide, UL94 V-0 2 pole: Terminals brass: 1 and 2 silver plated, 1a and 2a blank 1 pole: Terminals brass: 2 silver plated, 2a blank

*Comply to EN 60335-1 (Household and similar electrical appliances) for unattended appliances, which requires enhanced GWFI (Glow-Wire-Flammability-Index) IEC 60695-2-12 and GWIT (Glow-Wire-Ignition-Temperature) IEC 60695-2-13.

6 Environmental Condition

6.1 Temperatures

Operating temperature	- 25° C up to + 70° C
Ambiente temperature	- 5° C up to + 35° C, but occasionally reaching + 40° C,
Storage temperature	- 40° C up to + 85° C
Climatic category	25 / 085 / 21 according to IEC 60068-1

6.2 Vibration and shock resistance

Resistance to vibration according to IEC 60068-2-6	Test Fc ; Frequency range 10 - 500 Hz, cross-over frequency 60 Hz < 60 Hz constant amplitude of 0.75 mm > 60 Hz constant acceleration of 10 g
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6.3 Degree of protection

Degree of protection	IP40 according to IEC 60529 Front face of Power entry module
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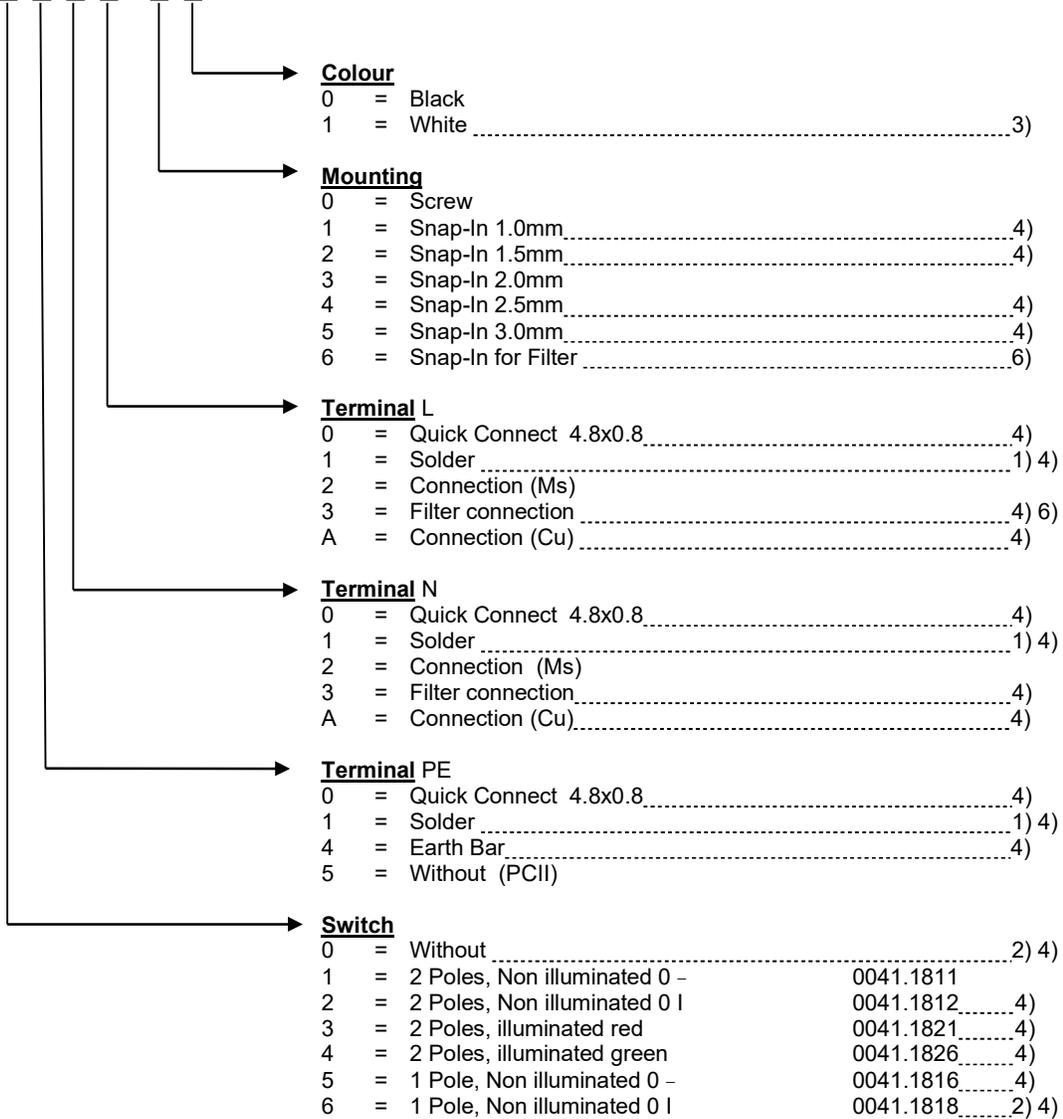
7 Approvals

Country	Certification Body	Type	Mark	File-no.
Europe	VDE	ENEC Mark		40007009
U.S.A. / Canada	UL	Certification / Recognition		E96454
China	CQC	Certification		2020180204018256 (PCI) 2020180204018257 (PCII)

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8 Configuration Code

DC11 - X X X X - X X 0 0



- 1) only on request
- 2) only on request – no approvals available
- 3) only on request – approvals pending
- 4) no PCII CCC approval available
- 6) not for sale

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