

POWER ENTRY MODULES DC21

Power entry module Type DC21

- Panel mount: screw-on version, rear side
- Appliance inlet with line switch 2-pole, for PCB







Characteristics

- All single elements are already wired
 Unwired versions available on request
 Line switch non-illuminated or illuminated
 Qualified for use in equipment according to IEC/EN 60950
 Can be ordered without insulation cover

Technical data

Rated voltage	125/250 VAC
Rated current	10 A/250V VDE
	11 A/125-250V UL / CSA
Dielectric strength (50 Hz, 1 Min.)	> 2,5 kV between L-N
(50 Hz, 1 Min.)	> 3 kV between L/N-PE
Allowable operating temperatures T _a	-25 °C to +70 °C
Degree of protection (fr.s)	IP40 acc. to IEC 60529
Protection class	suitable for equipment with prot. cl. I,
	acc. to IEC 61140
Terminals	for PCB
Panel thickness s	max. 3,5 mm
Materials: Housing	Thermoplastic, black, UL94 V-0

Appliance-inlet

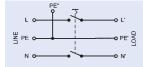


acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition)

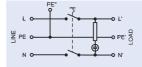
DC21 Switch

Line switch (Rocker switch)	1- or 2-pole, non-illuminated or illuminated, acc. to IEC/EN 61058-1.
Electrical rating acc. to IEC/EN 61058-1	16 (4) A / 250 VAC, 10'000 switch operations 10 (4) A / 250 VAC, 50'000 switch operations Statement () at inductive load with p. f. 0.6
Electrical rating acc. to UL1054	20 A 125 - 250 VAC, 6'000 Switch operations (1) HP 125 VAC (2) HP 250 VAC Statement () at inductive load with p. f. 0.45
Inrush current acc. to IEC/EN 61058-1	capacitive 100A, 3-4 ms continuous current 5 A
Contact gap	≥ 3 mm

Diagrams



Line switch non-illuminated 2-pole



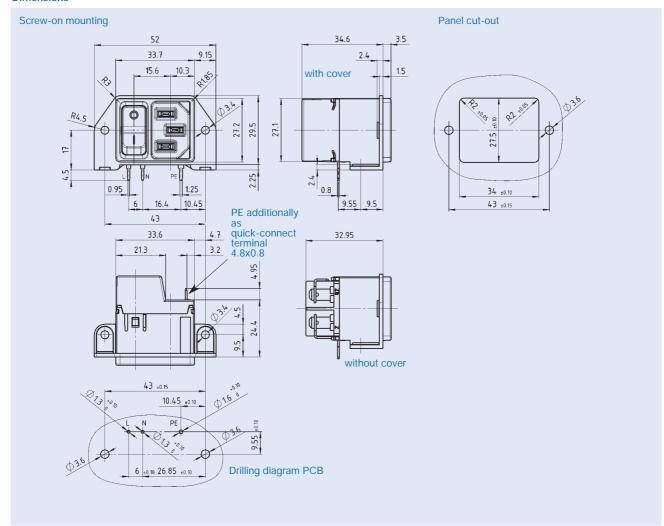
Line switch illuminated 2-pole



POWER ENTRY MODULES

DC21

Dimensions



Order Numbers socket, with internal connections

with cover	Line switch 2-pole 125/250VAC			
	non-illuminated	illuminated, red	illuminated, green	
DC21.0021.1111	•			
DC21.0023.1111		•		
DC21.0024.1111			•	

- Other versions on request:

 1-pole version illuminated and non-illuminated
 Version without cover
 for protection class II
 Line-switch with other rocker marking
 Fixing on PCB with self-tapping screws 3 mm or pre-inserted nuts M3



POWER ENTRY MODULES DC22

Power entry module Type DC22

- Panel mount: screw-on version, rear-side- Appliance inlet, line switch 1- or 2-pole, line-filter standard and medical versions, for PCB







Characteristics

- Ultra-compact design with smallest panel cut-out
- Line switch illuminated or non-illuminated
- With EMC-Shield
- Qualifield for use in equipment according to IEC/EN 60950

Technical data

Rated voltage Rated currents Leakage current, Standard Medical (M5) Test voltage (2 sec) Allowable operation temperatures Ta Climatic category Protection class Panel thickness s Materials: Housing Line filter, standard and medical 125/250 VAC; 50/60 Hz 40°C 40,5 mA (250 V/60 Hz) 40,7 kVDC between L-N 2,7 kVDC between L-N 2,7 kVDC between L/N-PE 25/085/21 acc. to IEC/EN 60068-1 Peque of protection (front-side) IP40 acc. to IEC 60529 Suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals For PCB Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200, UL 1283, CSA C22.2 no. 8		
Leakage current, Standard Medical (M5) Test voltage (2 sec) Allowable operation temperatures T _a Climatic category Protection class Panel thickness s Materials: Housing Line filter, standard and 2 0,5 mA (250 V / 60 Hz) 2 μA (250 V / 60 Hz) 1,7 kVDC between L-N 2,7 kVDC between L/N-PE -25 °C at +85 °C 25/085/21 acc. to IEC/EN 60068-1 1P40 acc. to IEC 60529 suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals for PCB max. 4,0 mm Materials: Housing Acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Rated voltage	125/250 VAC; 50/60 Hz
Medical (M5) < 5 μA (250 V / 60 Hz) Test voltage (2 sec) 1,7 kVDC between L-N 2,7 kVDC between L/N-PE Allowable operation -25 °C at +85 °C temperatures Ta Climatic category 25/085/21 acc. to IEC/EN 60068-1 Degree of protection (front-side) IP40 acc. to IEC 60529 Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals for PCB Panel thickness s max. 4,0 mm Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Rated currents	1–10 A; @ Ta 40°C
Test voltage (2 sec) 1,7 kVDC between L-N 2,7 kVDC between L/N-PE Allowable operation temperatures T ₀ Climatic category Degree of protection (front-side) Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals Fanel thickness s Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Leakage current, Standard	< 0,5 mA (250 V/60 Hz)
2,7 kVDC between L/N-PE Allowable operation temperatures T _o Climatic category 25/085/21 acc. to IEC/EN 60068-1 Degree of protection (front-side) Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals for PCB Panel thickness s Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Medical (M5)	< 5 μA (250 V / 60 Hz)
Allowable operation temperatures Ta Climatic category Degree of protection (front-side) Protection class suitable for equipment with prot. cl. I, acc. to IEC 60529 Protection class for PCB Panel thickness s Materials: Housing Appliance-inlet acc. to IEC 61140 Terminals For PCB F	Test voltage (2 sec)	1,7 kVDC between L-N
temperatures T _a Climatic category 25/085/21 acc. to IEC/EN 60068-1 Degree of protection (front-side) Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals for PCB Panel thickness s Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,		2,7 kVDC between L/N-PE
Climatic category Degree of protection (front-side) Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals Panel thickness s Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Allowable operation	-25 °C at +85 °C
Degree of protection (front-side) IP40 acc. to IEC 60529 Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals for PCB Panel thickness s max. 4,0 mm Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	temperatures T _a	
Protection class suitable for equipment with prot. cl. I, acc. to IEC 61140 Terminals Panel thickness s max. 4,0 mm Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Climatic category	25/085/21 acc. to IEC/EN 60068-1
acc. to IEC 61140 Terminals for PCB Panel thickness s max. 4,0 mm Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Degree of protection (front-side)	IP40 acc. to IEC 60529
Terminals Panel thickness s Panel thickness s Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Protection class	suitable for equipment with prot. cl. I,
Panel thickness s Max. 4,0 mm Materials: Housing Thermoplastic, black, UL94 V-0 Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,		acc. to IEC 61140
Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Terminals	for PCB
Appliance-inlet acc. to IEC/EN 60320-1/C14, Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc. to IEC 60939, EN 133 200,	Panel thickness s	max. 4,0 mm
Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc.to IEC 60939, EN 133 200,	Materials: Housing	Thermoplastic, black, UL94 V-0
Protection class I, pin-temperature 70 °C (cold condition) Line filter, standard and acc.to IEC 60939, EN 133 200,		•
pin-temperature 70 °C (cold condition) Line filter, standard and acc.to IEC 60939, EN 133 200,	Appliance-inlet	acc. to IEC/EN 60320-1/C14,
Line filter, standard and acc.to IEC 60939, EN 133 200,		Protection class I,
		pin-temperature 70 °C (cold condition)
medical UL 1283, CSA C22.2 no. 8	Line filter, standard and	acc.to IEC 60939, EN 133 200,
	medical	UL 1283, CSA C22.2 no. 8

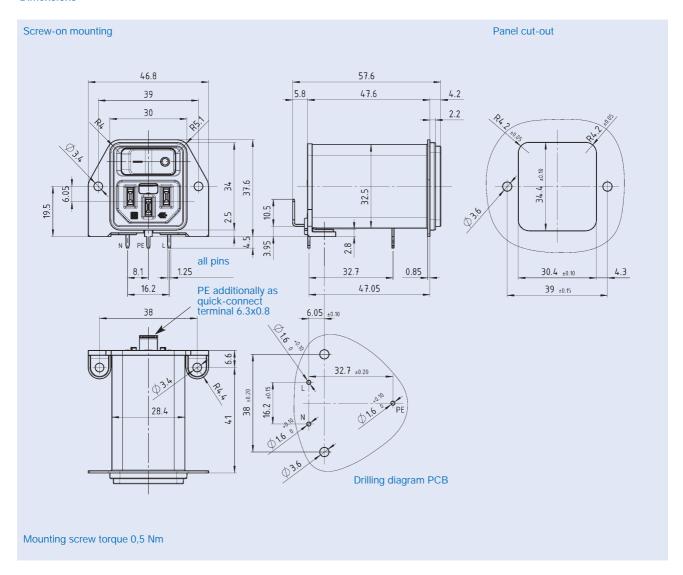
DC22 Switch

Line switch	1- or 2-pole, non-illuminated
(Rocker switch)	acc. to IEC/EN 61058-1
Electrical rating acc. to	16 (4) A / 250 VAC, 10'000 switch operations
IEC/EN 61058-1	10 (4) A / 250 VAC, 50'000 switch operations
	Statement () at inductive load with p. f. 0.6
Electrical rating acc.	20 A 125 - 250 VAC, 6'000 switch operations
to UL1054	(1) HP 125 VAC
	(2) HP 250 VAC
	Statement () at inductive load with p. f. 0.45
Inrush current acc.	capacitive 100 A, 3-4 ms
to IEC/EN 61058-1	continuous current 5 A
Contact gap	≥ 3 mm



POWER ENTRY MODULES

Dimensions



Technical data of filter-components

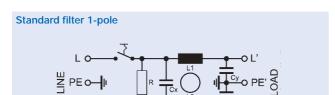
Rated current	Filter-Type	Inductance	ance Capacitance		
(A)		L1/L2 (mH)	CX2 (nF)	CY2 (nF)	$(M\Omega)$
1		10.0			1
2		4.0	100	2 x 2,2	1
4	Standard	1.5			1
6		0.8			1
10		0.3			1
1		10.0			1
2	Medical (M5)	4.0		_	1
4		1.5	100		1
6		0.8			1
10		0.3			1

POWER ENTRY MODULES

Νo

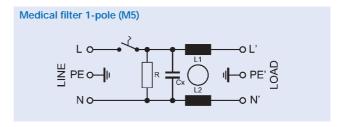
DC22

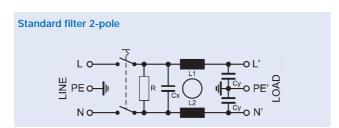
Standard version

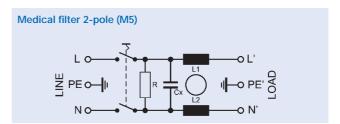


Medical version





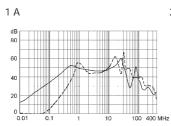


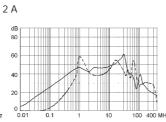


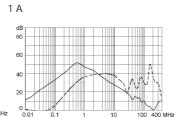
Attenuation loss

Standard version

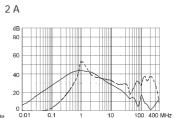
differential mode
common mode

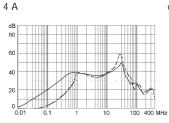


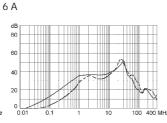


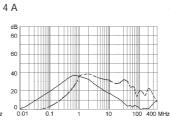


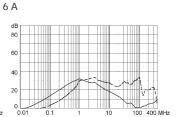
Medical version

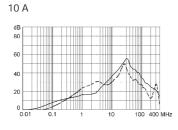


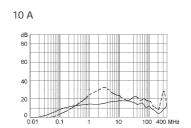














POWER ENTRY MODULES DC22

Order Numbers

Standard		Medical (M5)		Line switch	
1-pole	2-pole	2-pole	Rated Current	non-illuminated	illuminated 125/250VAC, red
DC22.1111.111	DC22.1121.111	DC22.1221.111	1	•	
DC22.2111.111	DC22.2121.111	DC22.2221.111	2	•	
DC22.4111.111	DC22.4121.111	DC22.4221.111	4	•	
DC22.6111.111	DC22.6121.111	DC22.6221.111	6	•	
DC22.9111.111	DC22.9121.111	DC22.9221.111	10	•	
	DC22.1123.111	DC22.1223.111	1		•
	DC22.2123.111	DC22.2223.111	2		•
	DC22.4123.111	DC22.4223.111	4		•
	DC22.6123.111	DC22.6223.111	6		•
	DC22.9123.111	DC22.9223.111	10		•

Other versions on request:

- 1-pole version illuminated
- line switch with other rocker marking
- illuminated green
- Medical type (M80) with CY2
- Capacitance CX1
- Fixing on PCB with self-tapping screws 3 mm or pre-inserted nuts M3