

6135 Power entry module

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1 General Description

General :

The power entry module type **6135** serie is suitable for use in information technology equipment acc. to standard IEC / EN / UL 60950.

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 / C14 for 6135 with TA35 2pole
- UL 6320-1
- CSA 22.2 no. 60320-1
- GB 17465.1-2009

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

Circuit breaker :

Circuit breaker for equipment **TA35**

(detail information see catalogue "CIRCUIT BREAKERS FOR EQUIPMENT")

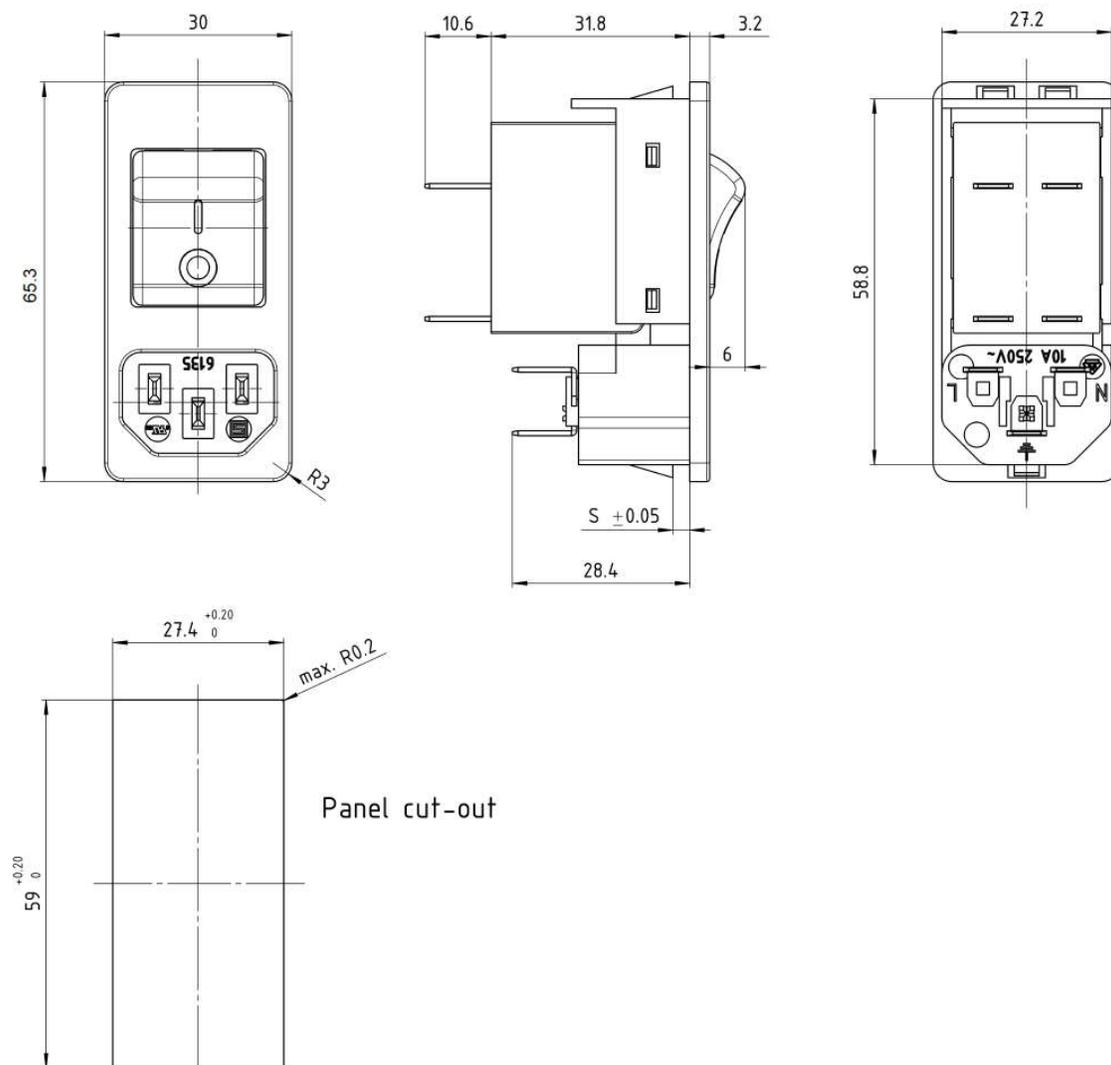
- options :
- 2-pole, without thermal overload protection
 - 2-pole, with 1-pole thermal overload protection
 - 2-pole, with 2-pole thermal overload protection

The appliance inlet meets the following standards :

- IEC 60934
- UL 1017
- CSA 22.2 235
- GB 17701

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2 Dimensions



3 Electrical Data

3.1 General :

Rated voltage U_n	250 V AC	50 / 60 Hz
Rated current I_n	10 A according to IEC / EN	15 A according to UL / CSA
Insulation resistance (500 V DC ; 1 min.)	> $10^3 \text{ M}\Omega$	between live parts of different potentials. > $10^3 \text{ M}\Omega$ 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
Clearance and creepage	> 3 mm	between live parts of different potentials.

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distances	> 4 mm > 8 mm	between protective conductor PE and live parts. between live parts and metal mounting-plate with max.10 mm thickness. (for protection class II)
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)
Pin temperature	max. 70° C

3.3 Circuit breaker for equipment :

3.3.1 Rated current, voltage and other electrical ratings :

Bimetal		Insulation resistance (main circuit)		Protection against electric shock	
Indirect heated: 0.05...2.8A Direct heated: 3...20A		DC 500 V > 100 MOhm		Class I, II (to operating means)	
Rated Insulation Voltage		Overvoltage category		Dielectric strength	
AC 250 V AC 440 V		II		50Hz: 1500V Impulse: 2000V [1.2/50us]	
No of poles	(max) Voltage rating	Current rating	Cond. SC-Rating (Inc) [with fuse]	Performance ("General Industrial")	
TA35 – 2 pole	AC 240V [50/60Hz] DC 60V	AC/DC 0.05A – 20A	AC/DC 2000A (PC1 / Fuse *)	UG E-A (AC 240V), UG A (DC 60V), FW0, TC-1, OL0, SC(C1)	
* Recommended Short Circuit-Fuse:		AC/DC 0.05A – 12A: 16A gG-Type / 15A J-Type (time delay) AC/DC >12A – 20A: 25A gG-Type / 25A J-Type (time delay)			
Minimum Operation cycles (AC)			Minimum Operation cycles (DC)		
Endurance (mech.): 50'000 cycles			Endurance (mech.): 50'000 cycles		
Endurance (on load): 50'000 cycles @ 1x In (cos phi = 0.6)			Endurance (on load): 50'000 cycles @ 1x In (L/R=2..3ms)		
Overload: (IEC 60934): 40 cycles @ 6xIn (cos phi = 0.6)			Overload: (IEC 60934): 40 cycles @ 4xIn (L/R=2..3ms)		
(UL1077): 50 cycles @ 1.5xIn (cos phi = 0.75) [OL0]			(UL1077): 50 cycles @ 1.5xIn (t.c.=non. ind.) [OL0]		

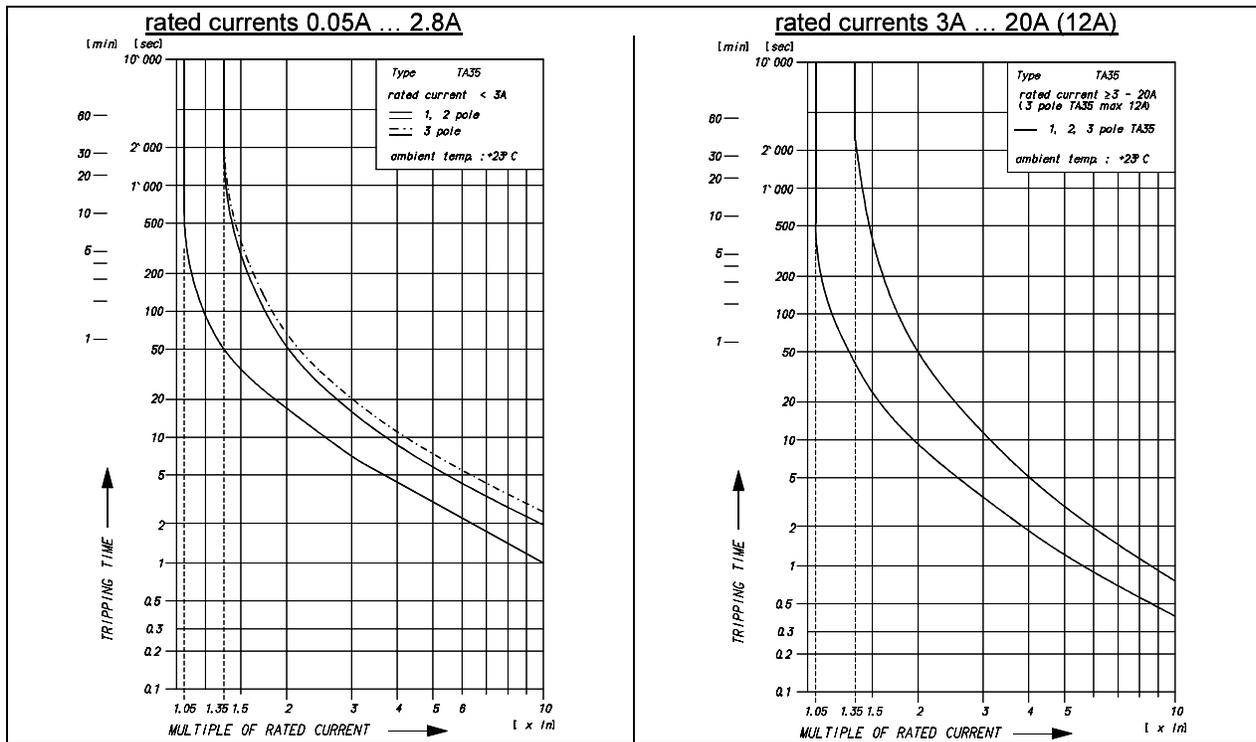
3.3.2 Tripping characteristic

Method of operation:	Switch-Type (S) / Manual-Type (M)
Mode of tripping:	Thermal (TO)
Type of tripping:	Positively trip-free
Conventional non-tripping current (no trip within one hour)	1.05x In [TC1]
Conventional tripping current (tripping within one hour)	1.35x In [TC1]
Instantaneous tripping / non-tripping current	n / a

Tripping time of multiple rated current (reference temperature: 23°C)

Rated current	0.05...2.8A			
Multiple of rated current (x In)	2	4	6	
Tripping time	1- & 2-pole	17...50 s	4 ... 8.5 s	2.4... 4 s
Rated current	3A ... 20A (12A*)			
Multiple of rated current (x In)	2	4	6	
Tripping time	1- & 2-pole	9 ... 50 s	1.8 ... 5.1 s	0.8 ... 2.0 s

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The above tripping characteristics apply to symmetrical overloads on all poles on the TA35 only.
At asymmetric overloads on multi-pole types, the tripping characteristic will change.
2-pole type TA35 is loaded at one pole only, the tripping current will be shifted by factor 1.05.

3.3.3 Environmental Condition

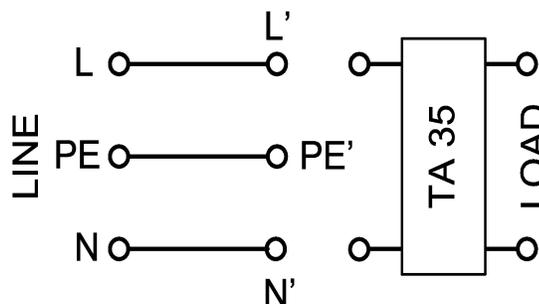
Operational temperature range:	- 30°C ... + 60°C
Storage temperature	- 40°C ... + 60°C
Reference temperature:	+ 23°C

Up- / derating factor

CBE tripping behaviour is dependent on temperature				Calculation example (only for approximate estimation)	
Ambient temperature (°C)	factor			<p>The unit is calibrated for an ambient temperature of + 23°C. To determine the rated current for a lower or higher ambient temperature, use a correction factor from the table at the left side.</p> <p>Example for a 10 Amps, 2 pole type TA35 at 60°C: Rated current @ +23°C: In (23°C) = 10A Ambient Temperature: Ta = +60°C Correction factor: f = 1.06 New rated current @ +40°C: In (60°C) = 10A * 1.06 = 10.6 At an ambient temperature @ +60°C, a CBE with In=10.6A @ 23°C is to choose.</p>	
	1 pole	2 pole	3 pole		
- 30	0.77	0.76	0.76		
- 20	0.81	0.81	0.81		
- 10	0.86	0.85	0.85		
- 5	0.88	0.87	0.87		
0	0.90	0.90	0.90		
+ 10	0.94	0.94	0.94		
+ 23	1.00	1.00	1.00		
+ 30	1.01	1.01	1.02		
+ 40	1.03	1.03	1.06		
+ 50	1.04	1.04	1.10		
+ 60	1.06	1.06	1.14		

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3.4 Diagram



4 Mechanical Data

4.1 Mounting :

Snap-in mounting from the frontside.

This mounting-system has the advantage of a simple and sure mounting.

4.2 Terminals :

Appliance inlet

L / N and PE

QC terminal 6.3x0.8 mm acc. to IEC 61210, nickel-plated (Ni)

Connection Inlet to CBE with solid wire insulated AWG16

Circuit breaker TA35

QC terminal 6.3x0.8 mm acc. to IEC 61210, non-plated

4.3 Packing and weight :

Original packing

40 pcs.

Net weight per 1 pcs.

42 gr. TA35 2-pole, without thermal overload protection
 43 gr. TA35 2-pole, with 1-pole thermal overload protection
 44 gr. TA35 2-pole, with 2-pole thermal overload protection

5 Materials

Thermoplastic

Inlet
Socket

Circuit breaker TA35
Case Cover

Rocker

Type

PA 6

PA 66

PA 66

PC

Flame classe UL94

V-0

V-0

V-0

UL94 HB

Comparative tracking index CTI

600 V

600 V

600 V

275 V

Temp.-index RTI, electr.

125° C

150° C

150° C

135° C

UL File-no.

E86034

E53898

E53898

E41613

Live parts

Copper alloy, protected against corrosion.

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6 Environmental Condition

6.1 Temperatures :

Operating temperature	- 25° C up to + 70° C for Appliance inlet - 30° C up to + 60° C for TA35
Ambiente temperature	- 25° C up to + 25° C, but occasionally reaching + 35° C for Appliance inlet
Storage temperature	- 40° C up to + 85° C for Appliance inlet - 40° C up to + 60° C for TA35
Climatic category according to IEC 60068-1	25 / 085 / 21 for Appliance inlet 30 / 060 / 21 for TA35

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

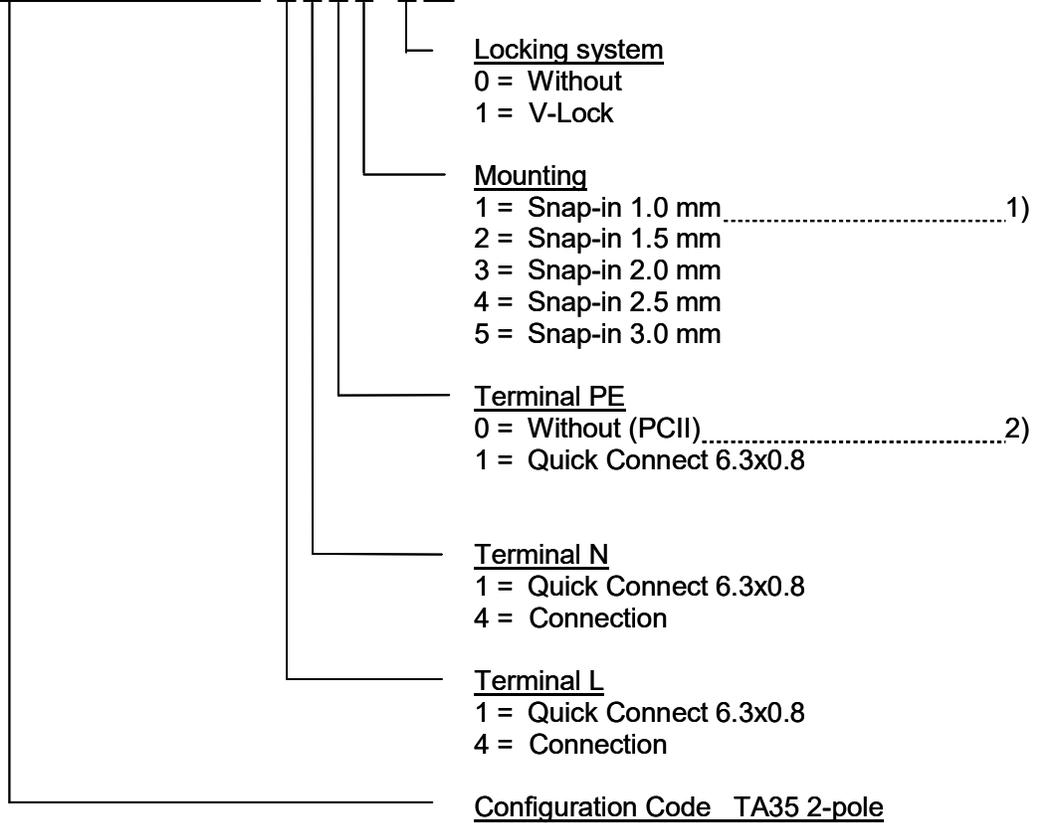
Country	Certification Body	Type	Mark	File-no.
Europe	VDE			40023066
U.S.A. / Canada	UL	Certification / Recognition		E 96454
China	CCC	Certification		2020180204013718

Approvals TA35 :	- UL File-no. :	E71572
	- CSA File-no. :	LR37712
	- VDE File-no. :	103223

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8 Configuration Code

6135 - XXXXXXXXXX-XXX-C6135-XXXX-X00



- 1) Only on request
- 2) Only on request – no approvals available

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