

HAZARD OF ELECTRIC SHOCK, EXPLOSION OR ARC FLASH

- 存在电击、爆炸或电弧闪烁危险**

- 不遵循上述说明将导致人员伤亡。**

Failure to follow these instructions will result in death or serious injury.

- (zh)** 电气设备的安装、操作、维修和维护工作仅限于合格人员执行。Schneider Electric 不承担由于未遵守本资料所引起的任何后果。专业人员是指掌握与电气设备的制造和操作及其安装相关的技能和知识的人员，他们经过安全培训能够发现和避免相关的危险。

POTENTIAL FOR EXPLOSION

Install and use this equipment in non-hazardous locations only.

Failure to follow these instructions will result in death or serious injury.

可能存在爆炸危險

仅在安全场所中安装和使用本设备。

不遵循上述说明将导致人员伤亡

UNINTENDED EQUIPMENT OPERATION

- ### 意外的设备操作

- 在存在人身和/ 或设备危险的位置使用合适的安全联锁。
- 在符合本设备运行时所处环境等级且通过钥匙锁闭装置来锁闭的机箱中安装和操作本设备。
- 必须遵从当地和国家法规中对特定设备额定电流和电压的规定，对电线和输出电路进行布线 安装熔断器。
- 切勿拆解、修理或改装本设备。
- 切勿将任何线路连接至已保留的未用连接点，或指示为“无连接 (N.C.)”的连接点。
- 遵守此处所述的正确安装和接线说明。

不遵循上述说明可能导致人员伤亡或设备损坏。

Failure to follow these instructions can result in death, serious injury, or equipment damage.

HAZARD OF BURNS

Avoid unprotected contact with hot surfaces.

Failure to follow these instructions can result in injury or equipment damage.

灼伤危险

避免手保护接触热表面

不遵循上述说明可能导致人身伤害或设备损坏。

EQUIPMENT OPERATION HAZARD

- Use the equipment in a controlled environment with respect to temperature and humidity as specified in the product documentation.
- Do not exceed the maximum output power or output current rating when adjusting the output voltage.

Failure to follow these instructions can result in injury or equipment damage.

设备运行危险

- 按照产品资料中规定的温度和湿度，在受控环境中使用设备。
 - 调整输出电压时，不要超过最大输出功率或输出电流额定值。
- 不遵循上述说明可能导致人身伤害或设备损坏。**

不遵循上述说明可能导致人身伤害或设备损坏。

本表格根据 SJ/T 11364 的规定编制。

Q: 表示该有害物质在该部件所有均质材料中的含量均在 GB/T 26572 规定的限量要求以下。X: 表示该有害物质至少在该部件的某一均质材料中的含量超出 GB/T 26572 规定的限量要求。

This table is made according to SJ/T 11364.

Q: Indicates that the concentration of hazardous substance in all of the homogeneous materials for this part is below the limit as stipulated in GB/T 26572.

X: Indicates that concentration of hazardous substance in at least one of the homogeneous materials used for this part is above the limit as stipulated in GB/T 26572.

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Reference 型号 ABLS1A	Output current 输入电流	Output voltage 输出电压	Input voltage 输入电压
12060E	6.3 A	12 Vdc	100...240 Vac TN/TT/IT
12100E	10 A		
24030E	3.2 A		
24050E	5 A	24 Vdc	
24100E	10 A		
24200E	20 A		
48100E	10 A	48 Vdc	200...240 Vac TN/TT/IT
24400E	40 A	24 Vdc	
48200E	20 A	48 Vdc	

Reference 型号 ABLS1A	Minimum operating temperature for cables 电缆的最低 工作温度
12060E	75°C (167°F)
12100E	80°C (176°F)
24030E	75°C (167°F)
24050E	80°C (176°F)
24100E	85°C (185°F)
24200E	95°C (203°F)
24400E	95°C (203°F)
48100E	95°C (203°F)
48200E	95°C (203°F)

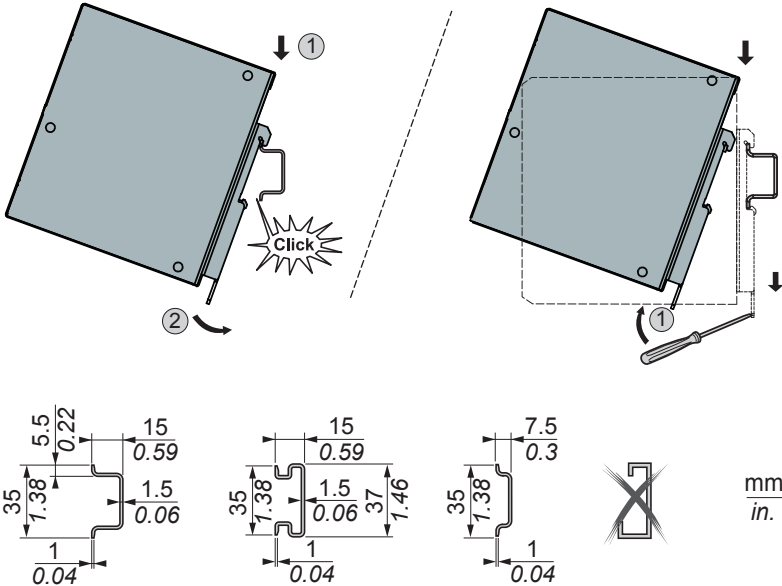


- ① 1 - Screw terminals for connection of the DC output voltage
2 - Output voltage adjustment potentiometer
3 - Output DC status LED
4 - Screw terminals for connection of the input voltage
5 - Clip-on lock for 35 mm (1.38 in.) top hat section rail (DIN rail)

- ② 1 - 用于连接DC输出电压的螺钉端子
2 - 输出电压调整电位计
3 - 输出直流状态LED
4 - 用于连接输入电压的螺钉端子，(单相L-N，相间L1-L2)
5 - 35-毫米 (1.38 英寸) 顶帽截面导轨 (DIN 导轨) 的钩锁

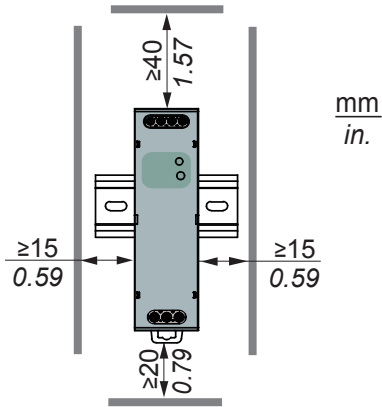
Mounting-dismounting / 安装-拆卸

ABLS1A●●●●●E



Mounting / 推荐安装方式

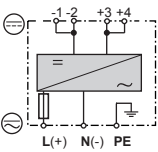
ABLS1A●●●●●E



Wiring / 接线

Use copper conductors only. / 仅使用铜导线。

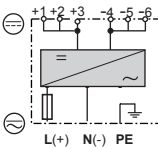
ABLS1A24030E / ABL S1A12060E / ABL S1A24050E / ABL S1A12100E / ABL S1A24100E



mm ²	0.75...4	0.75...4	0.75...4	0.75...4	0.75...4
AWG	18...12	18...12	18...12	18...12	18...12

	N•m	0.56
	lb-in	5
	Ø 4.5 mm	(0.18 in.)

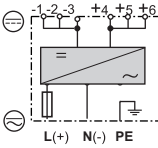
ABLS1A24200E / ABL S1A48100E



mm ²	0.75...4	0.75...4	0.75...4	0.75...4	0.75...4
AWG	18...12	18...12	18...12	18...12	18...12

	N•m	0.56
	lb-in	5
	Ø 4.5 mm	(0.18 in.)

ABLS1A24400E / ABL S1A48200E



mm ²	2.08...5.26	mm ²	3.31...5.26
AWG	14...10	AWG	12...10

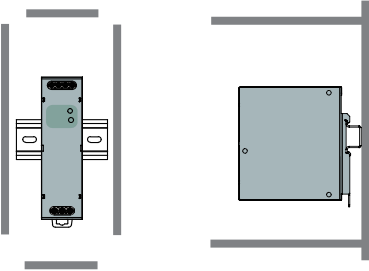
	N•m	0.496
	lb-in	4.4
	Ø 4.5 mm	(0.18 in.)

注意：使用时，输出端子(正极或负极)必须用三根或三根以上数量的线可靠连接。
Note: When in use, the output terminals (positive pole or negative pole) must be reliably connected with three or more wires.

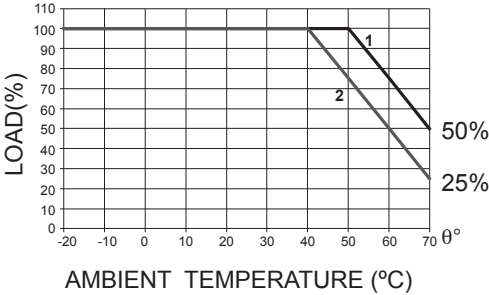
Technical Data / 技术数据

Surrounding air temperature (see derating curves page 7) 环境空气温度 (请参阅第7页降额曲线)	-20 °C ... 70 °C -4 °F ... 158 °F	If the equipment is used in an unspecified or unauthorized manner, the protection provided by the equipment may be impaired. 如果以非指定或非经授权的方式使用设备，则可能会削弱设备提供的保护。 In case of DC supply, the supply must be a secondary circuit that is isolated from mains by an isolating transformer. 如果是直流电源，则电源必须是通过隔离变压器与主电源隔离的次级电路。
Installation altitude (see derating curves page 7) Hauteur d'installation (voir courbes de déclassement page 7) 安装海拔高度 (请参阅第7页降额曲线)	≤ 5000 m ≤ 16404 ft	
Pollution degree / 污染度	2	
Relative humidity at +25 °C, no condensation +25 °C 相對濕度，无冷凝	20 % ... 95 %	
Overvoltage Category / 过电压类别	OVC II	
Degree of protection / 保护等级	IP20, IEC 60529	

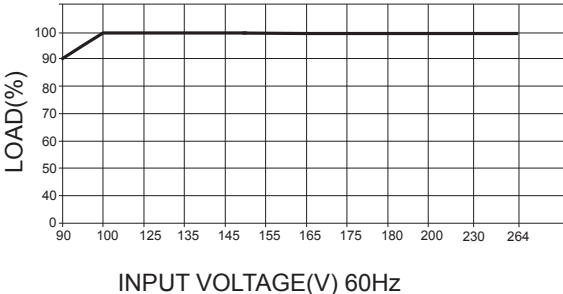
For means of disconnection a switch or circuit breaker, located near the product, must be included in the installation. A marking as disconnecting device for the product is required.
The device has an internal fuse. The unit is tested and approved with branch circuit protective device up to 20 A. This circuit breaker can be used as disconnecting device.
The power supply is only suitable for audio, video, information, communication, industrial and control equipment.
为了实现隔离功能，必须在系统中安装开关或断路器（位于本产品旁边）。需要将其标记为本产品的隔离设备。
此隔离设备配有内部熔断器。设备已通过分支电路保护设备（最大20 A）的测试和批准。此断路器可用作断开设备。
该电源仅适用于音频、视频、信息、通信、工业和控制设备。



1 : ▲ ≤ 2000 m (6561 ft),
2 : ▲ ≤ 5000 m (16404 ft)



Ambient Temperature (°C)	Load (%) - Curve 1	Load (%) - Curve 2
-20	100	100
0	100	100
20	100	100
40	100	100
60	75	75
70	50	25



Input Voltage (V)	Load (%)
90	90
100	100
125	100
150	100
175	100
200	100
225	100
250	100
264	100

θ°: Surrounding air temperature / 环境空气温度。
%: Percentage of the maximum load / 最大负载的百分比。