Produktdatablad

Spesifikasjoner

Switchmode strømforsyning optimalisert for DIN-skinne, 48VDC 120W-2,5A utgang og 100-240VAC forsynin

El-nummer:

6601287 ABLS1A48025

EAN: 3606481500243

Produktdata

Produktspekter	Modicon Power Supply
Produkt eller type komponent	Strømforsyning
Type strømforsyning	Regulert switch mode
variant alternativ	Optimized
Kapslingsmatriale	Alu
Nominal input voltage	100...240 V AC enfase 100...240 V AC fase til fase 140...340 V DC
Nominell effekt i W	120 W
Utgangsspenning	48 V DC
strømforsyningens utgangsstrøm	2,5 A

Teknisk data

toleranse forsyningsspenning	85 - 264 V AC without temperature derating 120...375 V DC without temperature derating
Nominal network frequency	50…60 Hz
Network system compatibility	TN TT IT
maksimal lekasjestrøm	1 mA 240 V AC
verntype på inngang	Integret sikring (kan ikke skiftes) 4 A External protection (recommended) 20 A Curve C External protection (recommended) 13 A Curve C
startstrøm	30,0 A på 115 V 60,0 A på 230 V
18 mm avstand	0,55 at 115 V AC 0,45 at 230 V AC
effektivitet	85 % på 115 V AC 88 % på 230 V AC
Output voltage adjustment	44...56 V
Effekttap i W	23 W
Strømforbruk	< 2.5 A 115 V AC < 1.4 A 230 V AC < 1.3 A 140 V DC
Turn-on time	< 1 s
holdetid	> 20 ms 115 V AC > 40 ms 230 V AC

Startup with capacitive loads	4000 µF
diff rippel	< 150 mV
gjennomsnitlig tid mellom feil (MTBF)	700000 t at 25 °C, fullastet conforming to SR 332
verntype utgang	Against overload and short-circuits, protection technology: automatisk reset Against over temperature, protection technology: manual reset Mot overspenning, protection technology: manual reset
tilkoblingsklemmer	Skrutilkopling: 0.5 - 4 mm², (AWG 20...AWG 12) without wire end ferrule for utgang Skrutilkopling: 0.5 - 2.5 mm², (AWG 20...AWG 14) med lederendehylse for utgang Skrutilkopling: 0.75...4 mm², (AWG 18...AWG 12) without wire end ferrule for inngang Skrutilkopling: 0.75...4 mm², (AWG 18...AWG 12) med lederendehylse for inngang
line and load regulation	< 0.5 % network 0 til 100 % last at 25 °C < 1 % network full voltage range in line at 25 °C
status LED	1 LED (grønn) utgangsspenning
Dybde	117,6 mm
Høyde	123,6 mm
Bredde	40 mm
Vekt	0,55 kg
Utgangs sammenkobling	Parallell
Monteringssupport	Topp type TH32-15 skinne i samsvar med IEC 60715 Top hat type TH35-7.5 skinne i samsvar med IEC 60715 Double-profil DIN skinne
Forsyning	SELV i samsvar med IEC 60950-1 SELV i samsvar med IEC 60204-1 SELV i samsvar med IEC 60364-4-41
dielektrisk styrke	3000 V AC med input to output issolasjon
Service life	10 år
Overspenningskategori	II

Miljø

Standarder	IEC 62368-1 EN/IEC 61204-3 IEC 61000-6-1 IEC 61000-6-2 IEC 61000-6-3 IEC 61000-6-4 IEC 61000-3-2 EN 61000-3-3 UL 62368-1 CSA C22.2 No 62368-1 UL 508 CSA C22.2 No 107.1 EN/IEC 62368-1
produktsertifikater	CE CUL listed CUL recognized RCM CB Scheme EAC KC
Driftshøyde	< 5000 m
støtmotstand	150 m/s² for 11 ms
IP-grad	IP20

ambient air temperature for operation	−20…−10 °C med strømlastreduksjon på 2 % per °C mounting position A < 2000 m −10…40 °C uten lastreduksjon mounting position A 115 V AC < 2000 m −10…50 °C uten lastreduksjon mounting position A 230 V AC < 2000 m 40…70 °C with current derating of 1.67 % per °C mounting position A 115 V AC < 2000 m 50…70 °C with current derating of 2.5 % per °C mounting position A 230 V AC < 2000 m
beskyttelsesgrad mot elektrisk støt	Klasse I
Forurensningsgrad	2
Vibrasjonsmotstand	3 mm (f= 2…9 Hz) conforming to IEC 60068-2-6 10 m/s² (f= 9…200 Hz) conforming to IEC 60068-2-6
Electromagnetic immunity	Immunity to electrostatic discharge - test level: 8 kV (kontakt utlading) conforming to IEC 61000-4-2 Immunity to electrostatic discharge - test level: 15 kV (luftutslipp) conforming to IEC 61000-4-2 Immunity to conducted RF disturbances - test level: 15 V/m (80 MHz...2 GHz) conforming to IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 5 V/m (2...2.7 GHz) conforming to IEC 61000-4-3 Immunity to conducted RF disturbances - test level: 5 V/m (2.7...6 GHz) conforming to IEC 61000-4-3 Immunitet mot raske transienter - test level: 4 kV (på input-output) conforming to IEC 61000-4-4 Surge immunitet test - test level: 4 kV (mellom strømforsyningen og jord) conforming to IEC 61000-4-5 Surge immunitet test - test level: 3 kV (mellom fasene) conforming to IEC 61000-4-5 Immunity to conducted RF disturbances - test level: 15 V (0.15...80 MHz) conforming to IEC 61000-4-6 Immunitet mot magnetiske felter - test level: 30 A/m (50...60 Hz) conforming to IEC 61000-4-8 Immunity to voltage dips conforming to IEC 61000-4-11 Disturbing field emission conforming to EN 55016-2-3 Limits for harmonic current emissions conforming to IEC 61000-3-2 conforming to EN 55016-1-2 conforming to EN 55016-2-1
elektromagnetiske utslipp	Conducted emissions i samsvar med IEC 61000-6-3 Radiated emissions i samsvar med IEC 61000-6-4

Forpakningsinformasjon

Enhetstype pakke 1	PCE
Antall enheter i pakke 1	1
Pakke 1 Høyde	5,100 cm
Pakke 1 Bredde	17,300 cm
Pakke 1 Vekt	17,900 cm
Package 1 Weight	721,000 g
Enhetstype pakke 2	S03
Antall enheter i pakke 2	13
Pakke 2 Høyde	30,000 cm
Pakke 2 Bredde	30,000 cm
Pakke 2 Lengde	40,000 cm
Pakke 2 Vekt	10,125 kg

Logistikkinformasjon

Opprinnelsesland	TH

Garantiperiode

Garanti	18 måneder

Environmental Data

Schneider Electric tar sikte på å oppnå Net Zero-status innen 2050 gjennom partnerskap med leverandørkjeden, materialer med lavere slagkraft og sirkularitet via vår pågående "Use Better, Use Longer, Use Again"-kampanje for å forlenge produktlevetiden og resirkulerbarheten.

Environmental Data forklart >

Hvordan vi vurderer produktets bærekraft >

Miljøfotavtrykk

Samlet klimagassutslipp gjennom livsløpet	**996**
PEP (Product Environmental Profile)	**Produktmiljøprofil**

Use Better

Materialer og emballasje

Emballasje med resirkulert papp	**Nei**
Emballasje uten plast	**Nei**
EU RoHS-direktiv	**Proaktivt i samsvar (Produktet inngår ikke i EUs RoHS direktivet)**
SCIP-nummer	**698d9b2a-7a6a-4b8f-a149-489156f55645**
REACh-regelverk	**REACh-erklæring**

Use Again

Ompakking og reproduksjon

Produktets livssyklus	**Informasjon om levetidsslutt**
Tilbaketakning	**No**
WEEE Label	**Innen EU må produktet avhendes i henhold til bestemte regler for avfallshåndtering og aldri kastes som husholdningsavfall.**

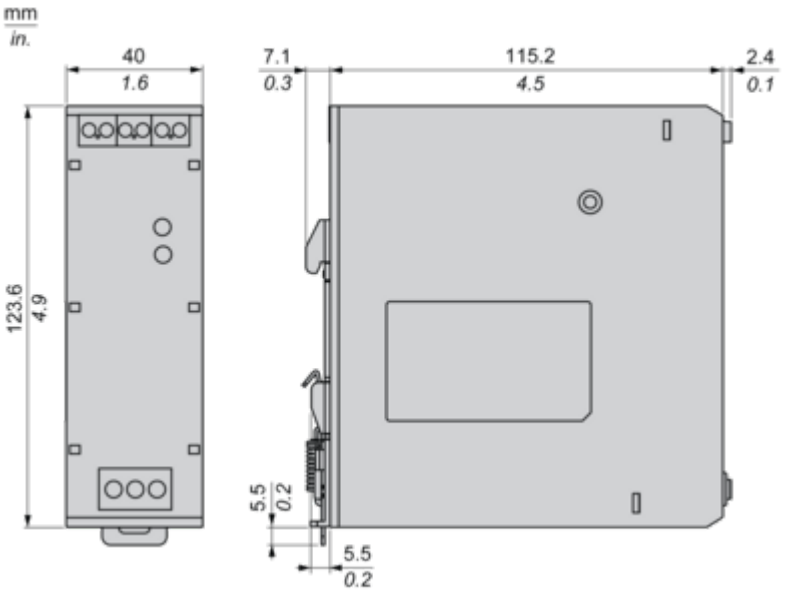
Dimensions Drawings

Electrical Safety

- If the unit is use in a manner not specified by the manufacturer, the protection provided by the equipment may be impaired.
- 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 20A. This circuit breaker can be used as disconnecting device.
- The power supply is only suitable for audio, video, information, communication, industrial and control equipment.

Dimensions

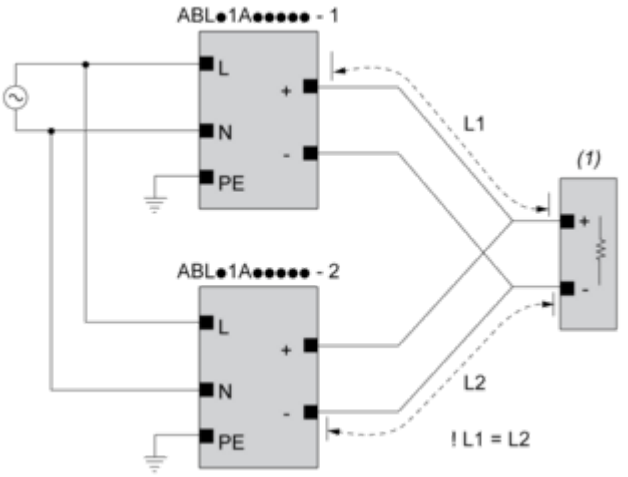
Front and Side Views



Connections and Schema

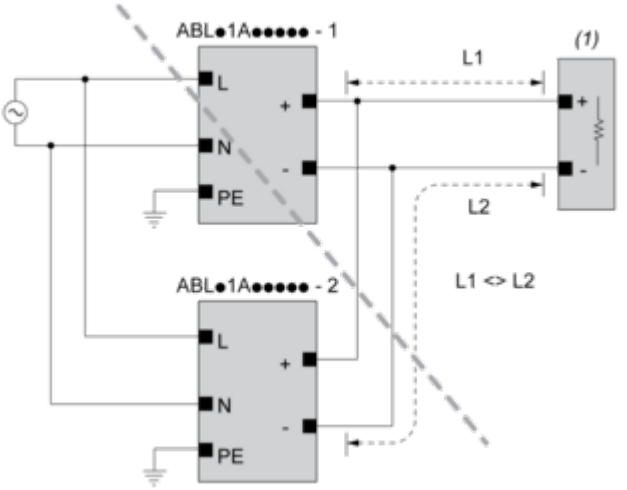
Connections and Schema

Correct Parallel Connection



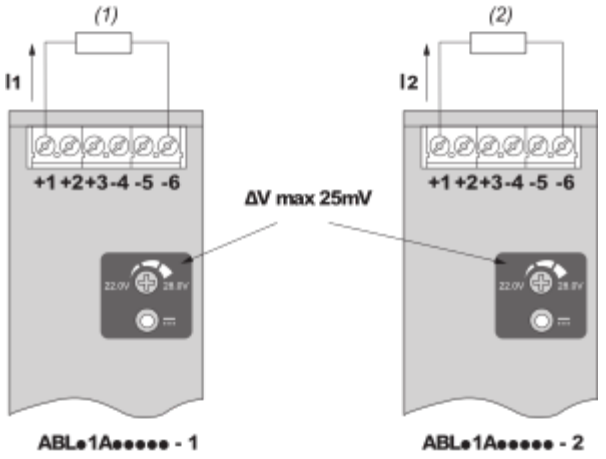
(1) : Load

Incorrect Parallel Connection



(1) : Load
ABLx1Axxxxx-1 = ABLx1Axxxxx-2
max 2 x ABLx1Axxxxx
L1 = L2
ΔV max 25 mV
$I_{Load} < 90\% \ 2 \times I_{nom}$

Output Voltage Balancing



(1) : R_{Load1}

(2) : R_{Load2}

$R_{Load1} = R_{Load2}$

$I_1 = I_2 = \sim I_{nom}$

Connections and Schema

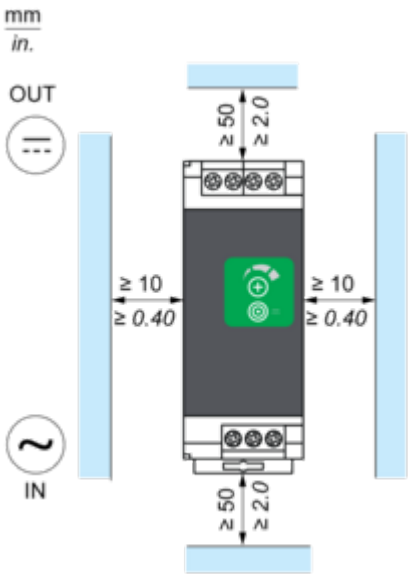
	(1)		
	<40°C	<50°C	<70°C
ABLS1A24021	50°C	60°C	75°C
ABLS1A24038	50°C	60°C	75°C
ABLS1A12062	50°C	60°C	80°C
ABLS1A24031	50°C	60°C	80°C
ABLS1A12100	60°C	70°C	90°C
ABLS1A24050	60°C	70°C	90°C
ABLS1A48025	60°C	70°C	90°C
ABLS1A24100	60°C	70°C	90°C
ABLS1A24200	95°C	95°C	90°C

(1) : Ambient

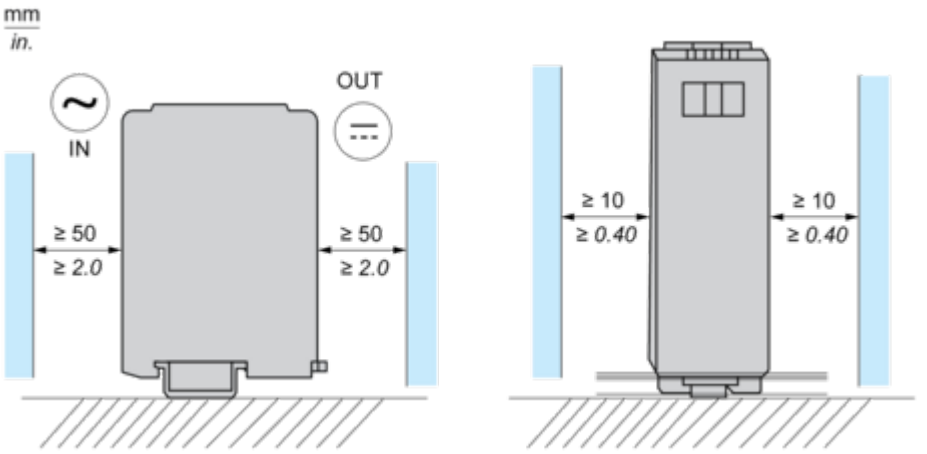
Mounting and Clearance

Mounting

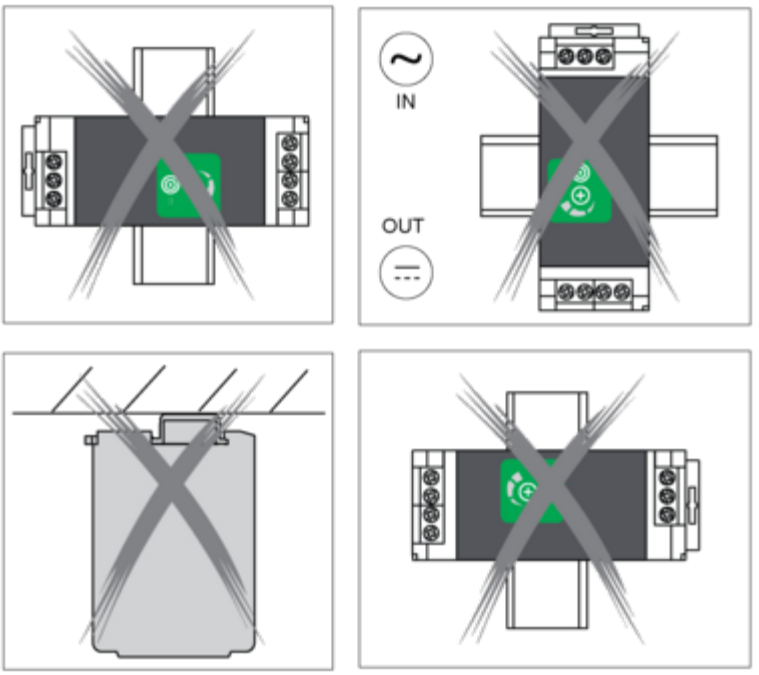
Mounting Position A



Mounting Position B



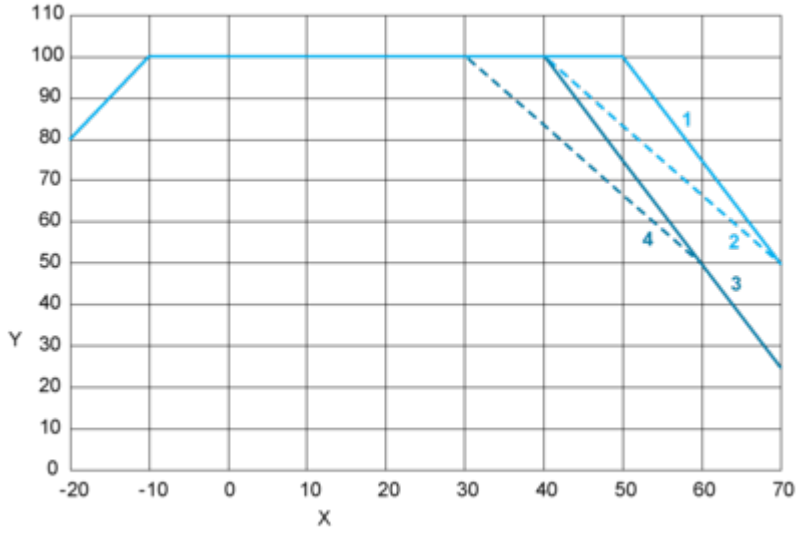
Incorrect Mounting


IN
OUT

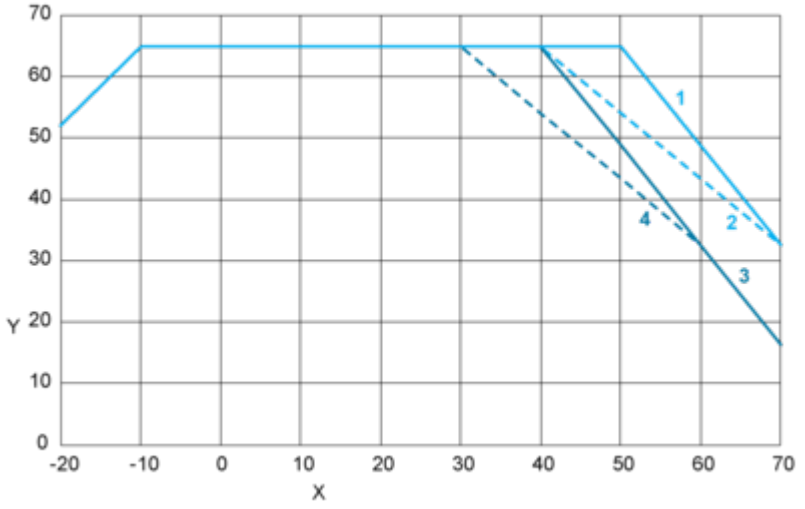
Performance Curves

Performance Curve

Mounting Position A



Mounting Position B



X : Surrounding Air Temperature (°C)
Y : Percentage of Maximum Load (%)
1 : Altitude ≤ 2000 m (6561 ft), Input voltage = 230 VAC / 325 VDC
2 : Altitude ≤ 2000 m (6561 ft), 115 VAC / 162 VDC
3 : Altitude ≤ 5000 m (16404 ft), Input voltage = 230 VAC / 325 VDC
4 : Altitude ≤ 5000 m (16404 ft), 115 VAC / 162 VDC

Image of product / Alternate images

Alternative