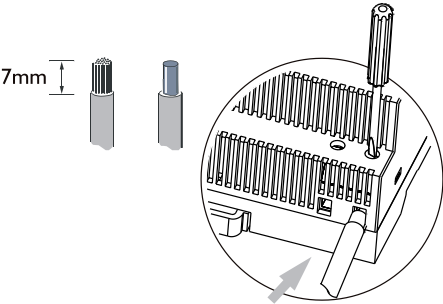


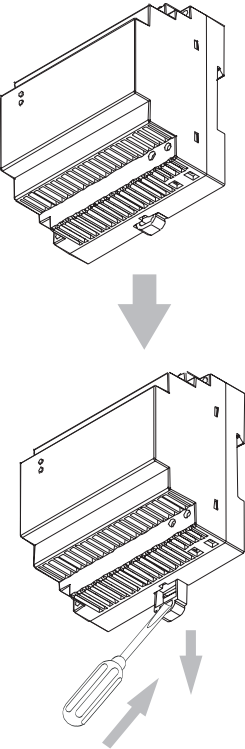
Fig. 3



Potentiometer „OUTPUT Adj“ can withstand torque of max. 0.02 Nm / 0.18 lb.in

Connector size range:
Fine strand with ferrule 0.2 ... 2.5 mm² / 24 ... 14 AWG
Rigid 0.2 ... 2.5 mm² / 24 ... 12 AWG
Tightening torque:
Max. 0.7 Nm / 6 lb.in
Use copper conductors only, 60/75 °C

Fig. 4



SAFETY INSTRUCTIONS
CP-D 24/4.2
Primary switch mode power supplies CP-D range



Doc.no. 15VC427 043 M0001 A (07/25)						it	Attenzione: Tensione pericolosa! Fare riferimento alle istruzioni per l'uso. Prima di intervenire su questo dispositivo, scollegare e isolare tutte le fonti di alimentazione. Attenzione! L'installazione deve essere eseguita esclusivamente da un installatore qualificato.
						ar	تحذير: جهد كهربائي خطراً راجع تعليمات التشغيل. الفصل الكهرباء وقم بتأمينها قبل العمل في هذا الجهاز. تنبيه! يجب عدم التركيب إلا من خلال شخص على دراية بفجالات التقنية الكهربائية.
						lt	Įspėjimas: Pavojinga įtampa! Žr. naudojimo instrukcijas. Atjunkite ir laikinai užblokuokite maitinimą prieš dirbdami su šiuo įrenginiu. Dėmesio! Įrengti gali tik asmuo, turintis elektrotechnikos patirties.
						bg	Предупреждение: Опасно напрежение! Вижте инструкциите за работа. Изключете и блокирайте захранването преди да работите с устройството. Внимание! Да се монтира само от експерт електротехник.
						cs	Varování: Nebezpečné napětí! Viz návod k obsluze. Před zahájením prací na tomto zařízení odpojte a uzamkněte napájení. Pozor! Toto zařízení smí instalovat pouze osoba s elektrotechnickou odborností.
						da	Advarsel: Farlig elektrisk spænding! Se betjeningsvejledningen. Frakobl enheden, og afbryd strømforsyningen, før du arbejder med denne enhed. Giv agt! Installation må kun foretages af personer med elektroteknisk ekspertise.
						de	Warnung: Gefährliche Spannung! Siehe Bedienungsanleitung. Vor dem Arbeiten Gerät ausschalten und von der Spannungsversorgung trennen. Achtung! Installation nur durch elektrotechnische Fachkraft.
						el	Προειδοποίηση: Επικίνδυνη τάση! Ανατρέξτε στις οδηγίες λειτουργίας. Αποσυνδέστε και απομονώστε την παροχή ισχύος προτού ξεκινήσετε τις εργασίες σε αυτήν τη συσκευή. Προσοχή! Η εγκατάσταση πρέπει να γίνεται μόνο από αδειούχο ηλεκτρολόγο εγκαταστάτη.
						en	Warning: Hazardous voltage! Refer to operating instructions. Disconnect and lock out power before working on this device. Attention! Installation should only be performed by electrically trained personnel.
						es	Advertencia: ¡Tensión peligrosa! Consulte las instrucciones de funcionamiento. Antes de trabajar con este dispositivo, desconecte y bloquee la corriente. ¡Atención! La instalación debe ser realizada únicamente por un técnico electricista.
						et	Hoiatus: Elektrilöögi oht! Lisateavet vaadake kasutusjuhendist. Enne selle seadmega töötamist ühendage lahti ja lukustage toide. Tähelepanu! Seadet tohib paigaldada ainult elektrotehnilise kogemusega isik.
						fi	Varoitus: Vaarallinen jännite! Katso käyttöohje. Katkaise virta ja estä virran kytkeminen lukituksella ennen töiden aloittamista. Huomio! Asennuksen saa suorittaa vain henkilö, jolla on kokemusta sähkötekniikasta.
						fr	Avertissement: Tension dangereuse! Consultez les consignes d'utilisation. Débranchez et verrouillez l'alimentation électrique avant d'entreprendre des travaux sur cet appareil. Attention! L'installation doit être effectuée uniquement par une personne ayant une expertise en électrotechnique.
						hr	Upozorenje: Opasan napon! Pogledajte upute za uporabu. Odspojite i isključite struju prije rada na ovom uređaju. Pažnja! Ugradnja je dopuštena samo osobama stručnim u području elektrotehnike.
						hu	Figyelmeztetés: Veszélyes feszültség! Lásd a használati utasítást. Válassza le és zárja ki az áramellátást, mielőtt a berendezésen dolgozni kezd. Figyelem! Az üzembe helyezést csak elektrotechnikai szakértelemmel rendelkező személy végezheti el.
						zh	警告：高压危险！请参阅操作手册。操作本设备前请断开并锁定电源。注意：安装仅限专业电气人员。

ADDITIONAL INFORMATION FOR USA/CANADA
FOR USE IN A POLLUTION DEGREE 2 ENVIRONMENT
MAX. SURROUNDING AIR TEMPERATURE T_a = 50 °C

INFORMATION COMPLÉMENTAIRE POUR USA/CANADA
POUR UTILISATION DANS UN ENVIRONNEMENT DE DEGRÉ DE POLLUTION 2
MAX. TEMPÉRATURE AMBIANTE T_a = 50 °C

ABB AG – STOTZ-KONTAKT
Eppelheimer Str. 82
DE-69123 Heidelberg
go.abb/contact

Further information:



new.abb.com/low-voltage

Revision
A
Revision date
2025-07-22
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Specifications subject
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CP-D 24/4.2
Primary switch mode power supplies CP-D range

Note: These instructions cannot claim to contain all detailed information of all types of this product range and can even not consider every possible application of the products. All statements serve exclusively to describe the product and have not to be understood as contractually agreed characteristics. Further information and data is obtainable from the catalogues and data sheets of this product, from the local ABB sales organisations as well as on the ABB homepage www.abb.com. Subject to change without prior notice.

Safety instructions and warnings:

Disconnect system from supply network!

Before any installation, maintenance or modification work: Disconnect the system from the supply network and protect against switching on.

Before start of operation:

Attention! Improper installation/operation may impair safety and cause operational difficulties or destruction of the unit. Before operation the following must be ensured:

- Connect to main according to the specific national regulations.
- Power supply cables and unit must be sufficiently fused. A disconnecting device has to be provided for the end product to disengage unit and supply cables from supply mains if required.
- Rate the output lines for the output current of the power supply and connect them with the correct polarity.
- In order to ensure sufficient air-cooling the distance to other devices has to be considered (see figure 1)

In operation:

- Do not modify the installation (primary and secondary side)! High current! Risk of electric arcs and electric shock (danger to life)!
- Risk of burns: Depending on the operation conditions the enclosure can become very hot
- The internal fuse is not user-replaceable. If the internal fuse blows, most probably the device is defective. In this case, an examination of the switch mode power supply by the manufacturer is necessary.

Warning: High voltage! Stored energy! Energy hazard at output!

The power supplies contain components with high stored energy and circuits with high voltage! Do not introduce any objects into the unit, and do not open the unit. With some units of this range the output is capable of providing hazardous energy. Ensure that the service personnel is protected against inadvertent contact with parts carrying energy.

Mounting:

1. Fasten the DIN rail (TH 35-15 or TH 35-7,5 according to IEC/EN 60715) as shown in Fig. 1 on the mounting plate, horizontal mounting position, input terminals on bottom, respect on all sides the minimum distance of 25 mm to other units.
2. Snap on DIN rail as shown in Fig. 2
 - 1) Tilt the unit slightly upwards and fit the unit on the DIN rail
 - 2) Lift it downward until it hits the stop
 - 3) Press against the bottom front side for locking. Shake the unit slightly to check the locking.
3. Remove the unit from the DIN rail as shown in Fig. 4. Use an insulated screwdriver for the unlocking.

Electrical connection (see Fig. 3):

Ensure correct dimensioning, stripping length and connection of the cables.

Technical data:

Data at T_a = 25 °C and rated values, unless otherwise stated.

Input circuit	CP-D 24/4.2
Rated input voltage	100-240 V AC
Input voltage range	90-264 V AC / 120-375 V DC
Frequency range	47-63 Hz
Inrush current	115 V AC / 230 V AC < 30 A / < 60 A
Output circuit	
Rated output voltage	24 V DC
Adjustment range of the output voltage	24-28 V DC
Rated output current	4.2 A
Derating of the output current	60 °C < T _u ≤ 70 °C 2,5 %/°C
Characteristic curve of output	U/I characteristic curve
Overvoltage protection	30-33 V DC
General data	
Pollution degree	2
Degree of protection	housing / terminals IP20 / IP20
Ambient temperature range T _a	operation -40...+70 °C (-40...158 °F)
	storage -40...+85 °C (-40...185 °F)
Altitude during operation	IEC/EN 60068-2-13 max. 4850 m
Width of housing	5 MW

Fig. 1

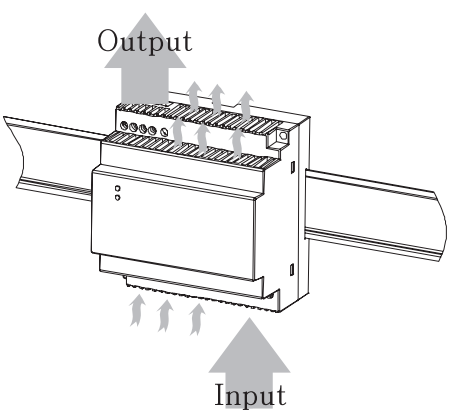


Fig. 2

