



(en) Electric current! Danger to life!
Installation, commissioning and maintenance work must be carried out by qualified personnel only.

(de) Lebensgefahr durch elektrischen Strom!
Arbeiten bzw. Montage an diesem Produkt dürfen nur von Elektrofachkräften und elektrotechnisch unterwiesenen Personen ausgeführt werden.

(fr) Tension électrique dangereuse !
L'installation de l'appareil, ainsi que tous les travaux effectués sur celui-ci, doivent être réalisés par un électricien qualifié ou par un personnel spécialement formé.

(es) ¡Corriente eléctrica! ¡Peligro de muerte!
La instalación del dispositivo, así como todos los trabajos en él, deben ser realizados por un electricista calificado o por personal especialmente capacitado.

(it) Tensione elettrica: Pericolo di morte!
L'installazione e il lavoro sul dispositivo devono essere effettuati da un elettricista qualificato o da personale specializzato.

(zh) 触电危险!
設備的安裝，以及所有工作，必須由合格的電工或經過專門培訓的人員完成。

(ru) Электрический ток! Опасно для жизни!
Установка и эксплуатация устройства должны выполняться квалифицированным электриком или специально обученным персоналом.

(nl) Levensgevaar door elektrische stroom!
Installatie van het apparaat en alle werkzaamheden eraan, mogen uitsluitend door een gekwalificeerd elektricien of speciaal opgeleid vakpersoneel worden uitgevoerd.

(da) Livsfare på grund af elektrisk strøm!
Arbejde i forbindelse med installation, opstart og vedligehold må kun udføres af kvalificeret personale.

(el) Προσοχή, κίνδυνος ηλεκτροπληξίας!
Η εγκατάσταση, εκκίνηση και συντήρηση θα πρέπει να πραγματοποιείται μόνο από εξειδικευμένο προσωπικό.

(pt) Perigo de vida devido a corrente eléctrica!
A instalação do dispositivo, bem como todos os trabalhos devem ser realizados por um electricista qualificado ou por pessoal especialmente formado.

(sv) Livsfara genom elektrisk ström!
Installation, idrifttagande och underhållsarbete får endast utföras av behörig personal.

(fi) Hengenvaarallinen jännite!
Laitteen asennus ja käyttö ainoastaan sähköasentajan tai siihen perehdytetyn henkilön toimesta.

(cs) Nebezpečí úrazu elektrickým proudem!
Instalace zařízení a veškeré práce na něm musí být provedeny kvalifikovaným elektrikářem nebo speciálně vyškoleným personálem.

(et) Eluhtlik! Elektrilöögiht!
Paigaldus-, kasutus- ja hooldustööd peab läbi viima ainult kvalifitseeritud personal.

(hu) Életveszély az elektromos áram révén!
Az eszköz felszerelését, valamint az ehhez kapcsolódó összes munkát szakképzett villanyszerelővel vagy szakképzett személyzetnek kell elvégeznie.

(lv) Elektriskā strāva apdraud dzīvību!
Uzstādīšana, nodošana ekspluatācijā un apkopes darbi jāveic tikai kvalificētam personālam.

(lt) Pavojus gyvybei dėl elektros srovės!
Įrengimo, paleidimo ir techninės priežiūros darbus turi atlikti tik kvalifikuotas personalas.

(pl) Porażenie prądem elektrycznym stanowi zagrożenie dla życia!
Instalacja urządzenia, jak również prace nad nim, muszą być wykonywane przez wykwalifikowanego elektryka lub specjalnie wyszkolony personel.

(sl) Življenjska nevarnost zaradi električnega toka!
Dela montaže, zagona in vzdrževanja morajo izvajati samo usposobljeno osebe.

(sk) Nebezpečnost ohrozenia života elektrickým prúdom!
Inštalácia prístroja, ako aj všetky práce na ňom musia byť vykonané kvalifikovaným elektrotechnikom alebo špeciálne vyškoleným personálom.

(bg) Опасност за живота от електрически ток!
Инсталирането на устройството, както и всяка работа по него, трябва да бъде извършвано от квалифициран електротехник или от специално обучен персонал.

(ro) Atenție! Pericol electric!
Montajul și lucrul cu acest aparat trebuie făcute numai de un electrician calificat sau de personal tehnic specializat.

(hr) Opasnost po život uslijed električne struje!
Radove ugradnje, puštanja u pogon i održavanja mora vršiti samo kvalificirano osoblje.

(tr) Elektrik akımı! Hayati tehlike!
Bu ürünün çalıştırılması veya kurulumu sadece elektroteknik eğitimleri almış olan ehliyetli elektrikçiler ve kişiler tarafından yapılmalıdır.

(sr) Električna struja! Opasnost po život!
Instalaciju, puštanje u rad i održavanje sme da obavlja isključivo kvalifikovano osoblje.

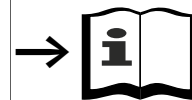
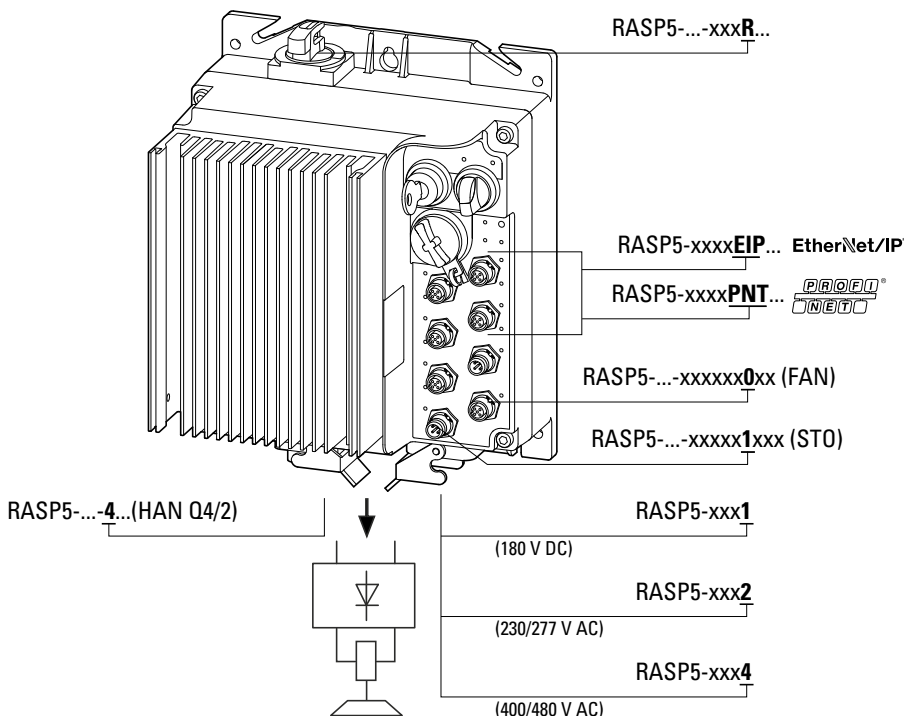
(no) Elektrisk strøm! Livsfare!
Installasjon av enheten, samt arbeid på den, skal kun utføres av kvalifisert personell, eller av de som er spesielt opplært til dette arbeidet.

(uk) Електричний струм! Небезпечно для життя!
Встановлення пристрою, так само, як і робота з ним, повинні виконуватись кваліфікованим електриком або персоналом, що пройшов спеціальну підготовку.

(ar) تحذير! تيار كهربائي! خطر موت الشبكت والتكليف و أعمال الصيانة يجب أن تقام فقط من طرف الموظفين المؤهلين

RASP5-xxxxEIP

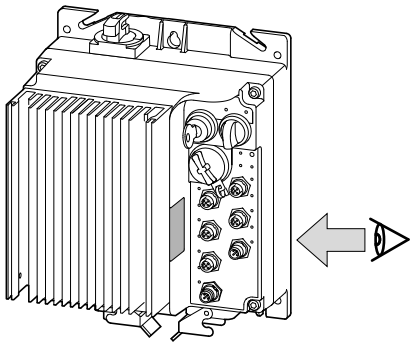
RASP5-xxxxPNT



Eaton.com/documentation
MN034004...



Eaton.com/EcoDesign-VFD
MZ040046EN



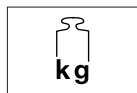
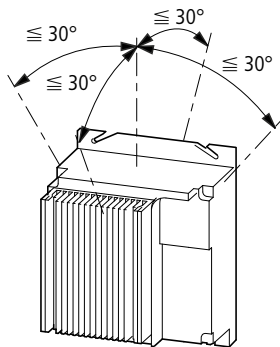
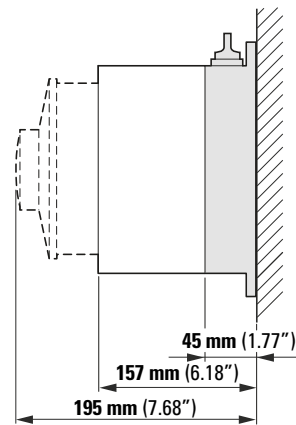
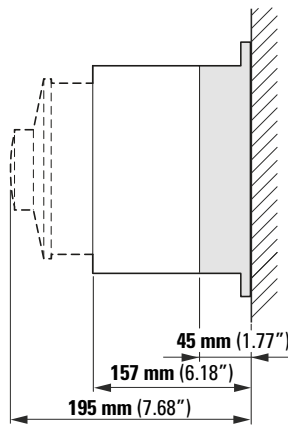
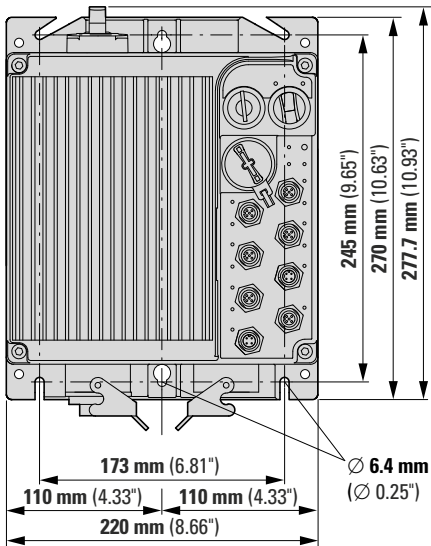
RASP5-2 4 2 0 EIP - 4 12 R 1 0 0 S1

- 0 = No fan
1 = fan
- 0 = No STO
1 = STO
- 0 = No brake resistor
1 = Brake resistor
- 0 = No option
R = Repair switch
- 4 = HAN Q4/2
- EIP = Ethernet/IP
PNT = Profinet
- 0 = No actuation for motor brakes
1 = 180 V DC control voltage for external motor brakes
2 = 230/277 V AC control voltage for external motor brakes
4 = 400/480 V AC control voltage for external motor brakes
2 = 2 Actuator outputs
- 4 = 4 Sensor inputs
- 2 = 2.4 A
4 = 4.3 A
5 = 5.6 A
8 = 8.5 A

RASP5-...-xxx0xx0xx

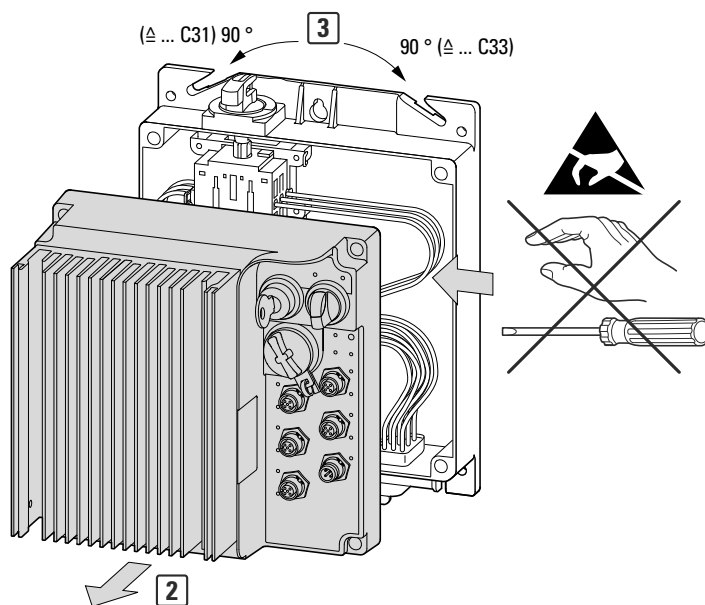
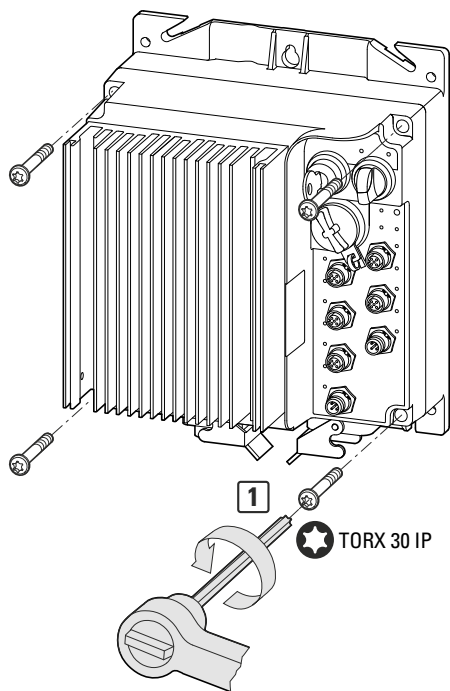
RASP5-...-xxx0xx1xx

RASP5-...-xxxR

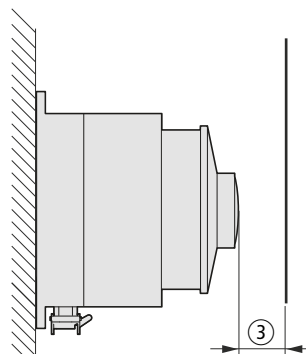
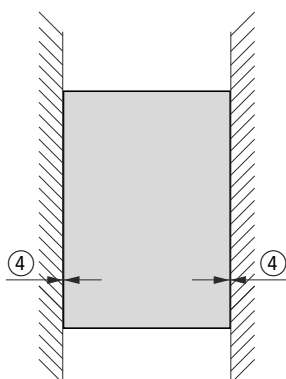
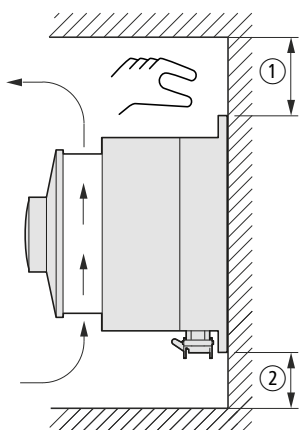
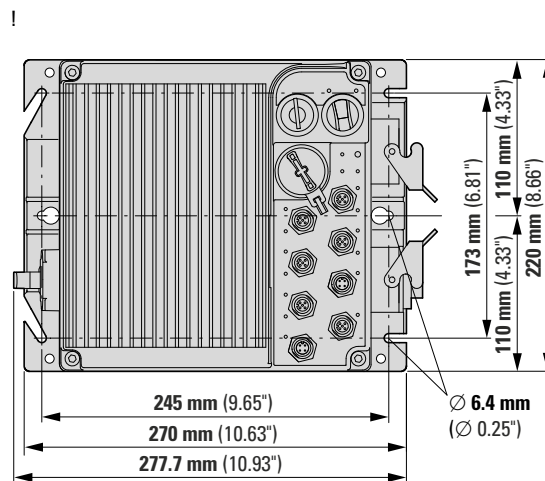
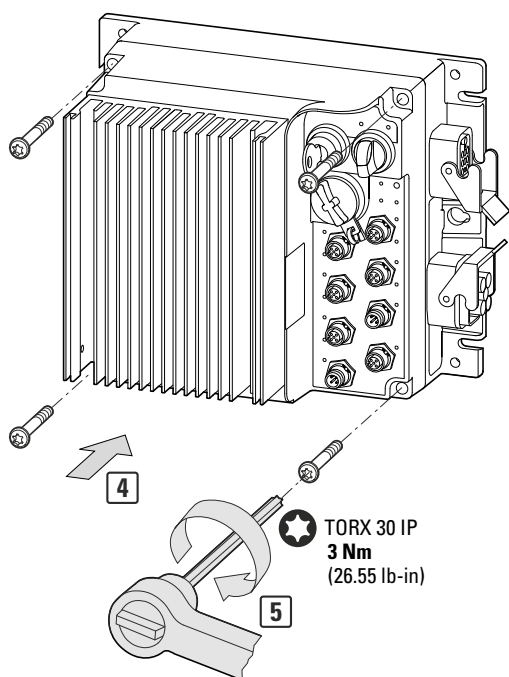


RASP5-...-xxx0xx0xx	3.44
RASP5-...-xxxR	3.82
RASP5-...-xxxx1xxx1...	3.46

04/26 1L034093ZU

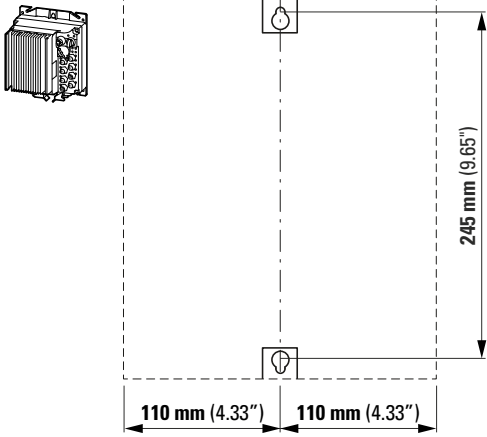


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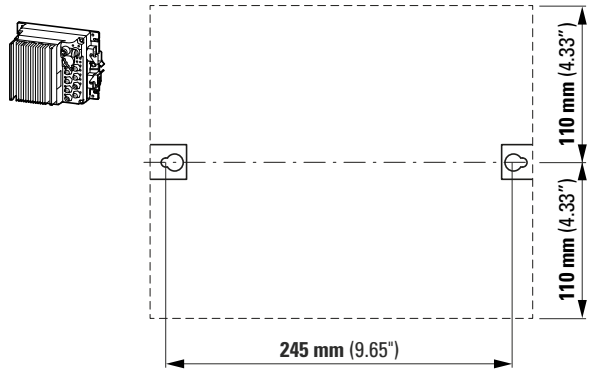


- ① ≥ 150 mm (≥ 5.91 ")
- ② ≥ 100 mm (≥ 3.94 ")
- ③ ≥ 50 mm (≥ 1.97 ")
- ④ ≥ 0

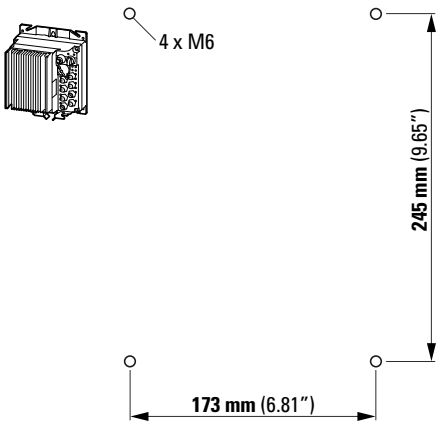
1a



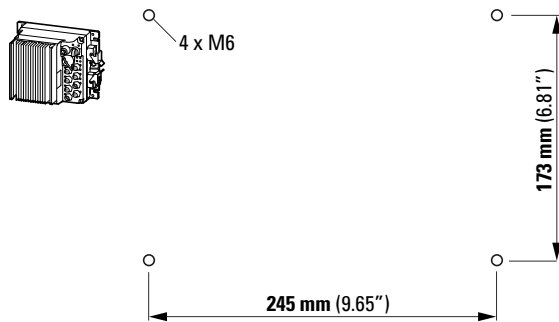
1a



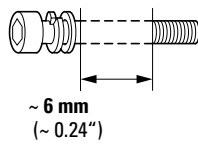
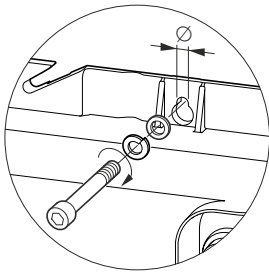
1b



1b

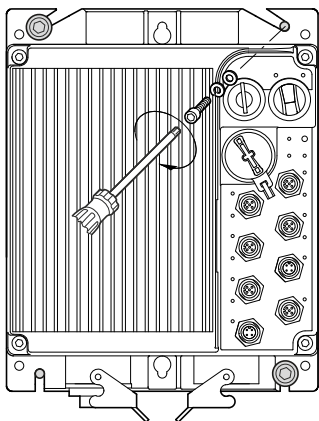


2

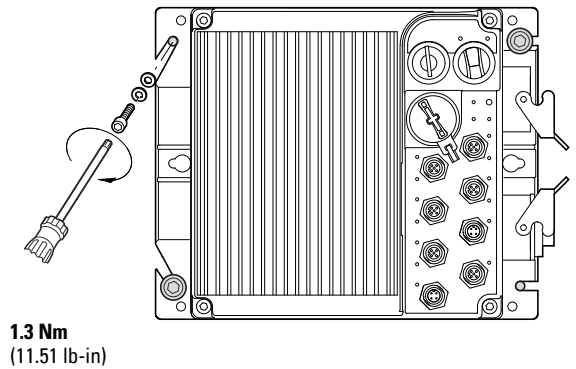


Ø			
6.2 mm (0.24")	2 x / 4 x M6	4 x DIN 127, M6	4 x DIN 125, M6

3



3



**(en) CAUTION**

Connect only in voltage-free state!

(de) VORSICHT

Nur im spannungsfreien Zustand anschließen!

(fr) ATTENTION

Raccordez l'appareil uniquement hors tension !

(es) ATENCIÓN

¡Conectar únicamente en estado sin tensión!

(it) ATTENZIONE

Collegare solo in assenza di tensione!

(zh) 注意

必須在斷電狀態下進行連接！

(ru) ВНИМАНИЕ

Подключать только в обесточенном состоянии!

(nl) VOORZICHTIG

Alleen in spanningsloze toestand aansluiten!

(da) FORSIGTIG

Må kun tilsluttes i spændingsfri tilstand!

(el) ΠΡΟΣΟΧΗ

Συνδέστε μόνο όταν δεν επικρατεί τάση!

(pt) CUIDADO

Ligar apenas com a tensão desligada!

(sv) OBSERVERA

Får endast anslutas i spänningsfritt tillstånd!

(fi) HUOMIO

Kytke vain jännitteettömässä tilassa!

(cs) UPOZORNĚNÍ

Připojujte jen při zcela odpojeném napájení!

(et) ETTEVAATUST

Ühendada ainult pingevabas olekus!

(hu) VIGYÁZAT

Csak feszültségmentes állapotban csatlakoztassa!

(lv) UZMANĪBU

Pieslēgt tikai tad, kad nenotiek sprieguma padeve!

(lt) PERSPĖJIMAS

Prijungti tik tada, kai išjungta įtampa!

(pl) PRZESTROGA

Podłączać zawsze po uprzednim odłączeniu od zasilania elektrycznego!

(sl) POZOR

Napravo priključite le, ko ni pod napetostjo!

(sk) UPOZORNENIE

Napájať len v stave bez napätia!

(bg) ВНИМАНИЕ

Свързвайте само, когато уреда не е под напрежение!

(ro) ATENTIE

Conectați doar când aparatul nu se află sub tensiune!

(hr) PAZNJA

Priključujte samo u beznaponskom stanju!

(tr) DİKKAT

Sadece gerilim sıfırken bağlayın!

(sr) ОПРЕЗ

Прикључујте само у стању без напона!

(no) FORSIKTIG

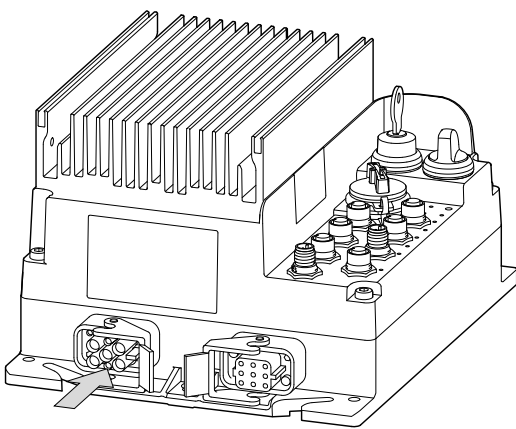
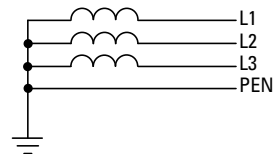
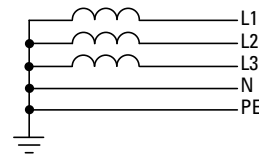
Tilkoble bare i spenningsfri tilstand!

(uk) УВАГА

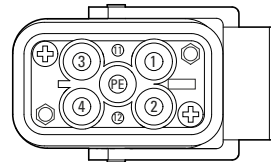
Підключати лише за відсутності напруги!

(ar) انتباه

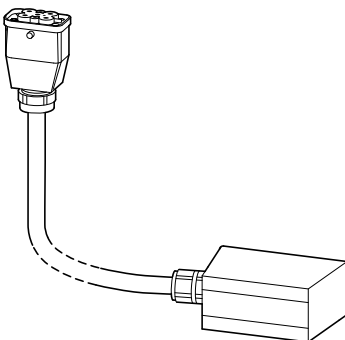
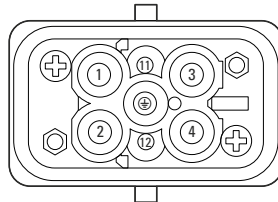
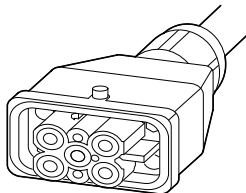
!التوصيل فقط في حال عدم الفولتية

**Mains (TN, TT)**

$U_{LN} = 3 \text{ AC } 400 \text{ V, N, PE}$
 $380 \text{ V } -10 \% \dots 480 \text{ V } +10 \%$
 $50/60 \text{ Hz } (45 \dots 66 \text{ Hz } \pm 0\%)$

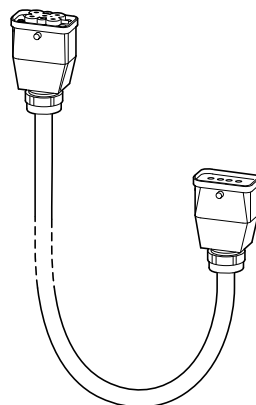
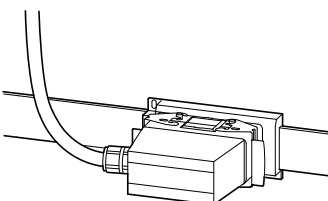
HAN Q4/2 M

PIN	400/480 V AC
1	L1
2	L2
3	L3
4	(N)
PE	PE
11	–
12	–

HAN Q4/2 F

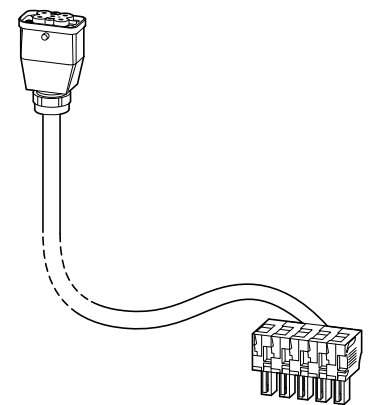
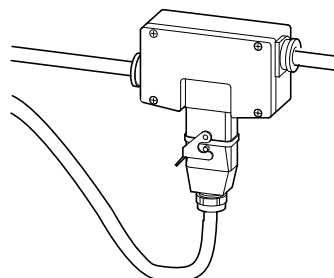
RA-Q4/C1-1M5

→ RA-C1-PLF1

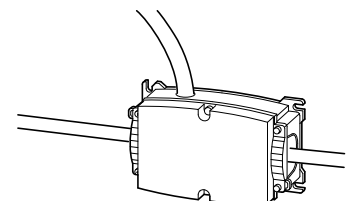


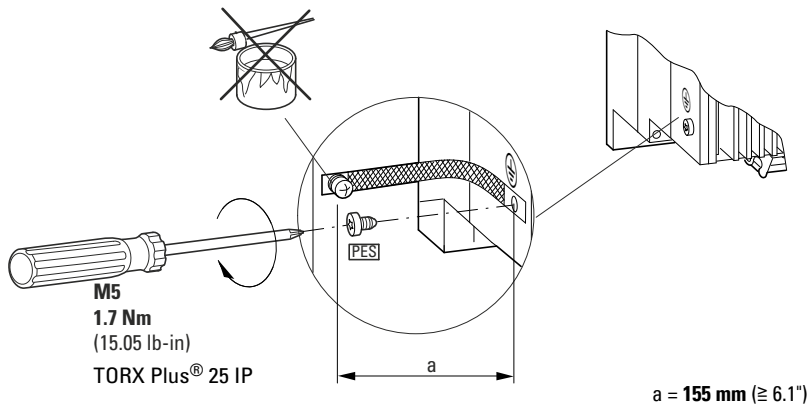
RA-Q4/C2-1M5

→ RA-C2-S1-4

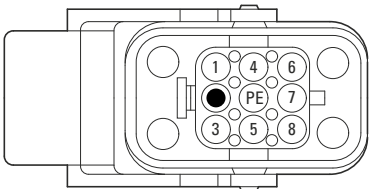
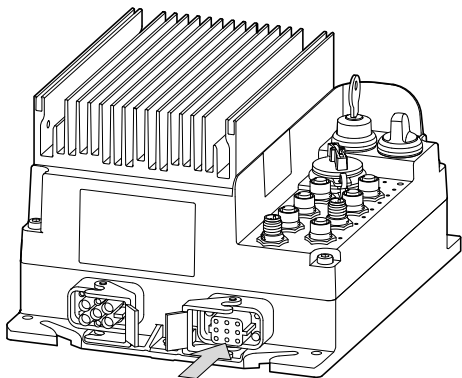


→ RA-C4-PB65



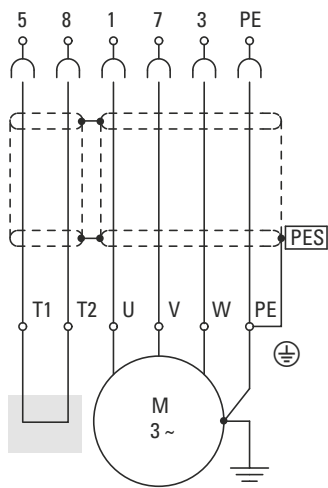


Motor

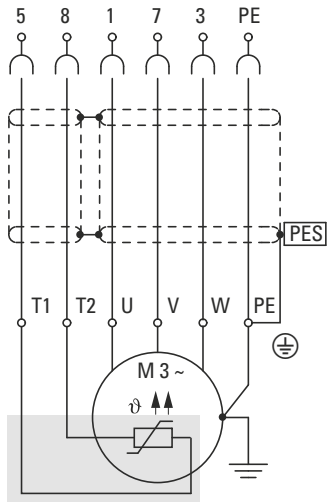


400 V AC/460 V AC		180 V DC 230 V AC / 400 V AC 277 V AC / 480 V AC	
PIN	M 3~		
1	U		
3	W		
4			B2
5		T1	
6			B1
7	V		
8		T2	
PE	PE		

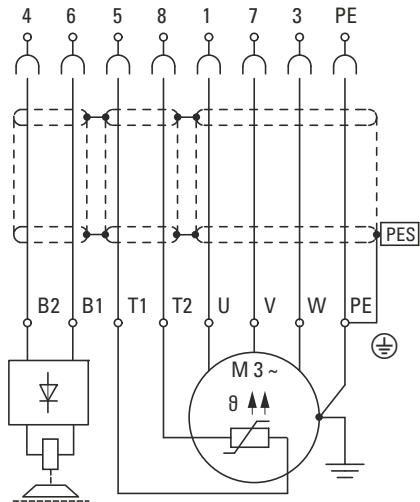
	I_e	Motor	
		400 V, 50 Hz	440 - 460 V, 60 Hz
RASP5-2...	2.4 A	0.75 kW	1 HP
RASP5-4...	4.3 A	1.5 kW	2 HP
RASP5-5...	5.6 A	2.2 kW	3 HP
RASP5-8...	8.5 A	4.0 kW	5 HP



RASP5-...



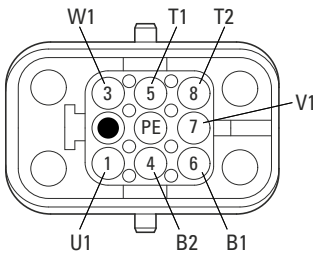
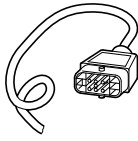
RASP5-...



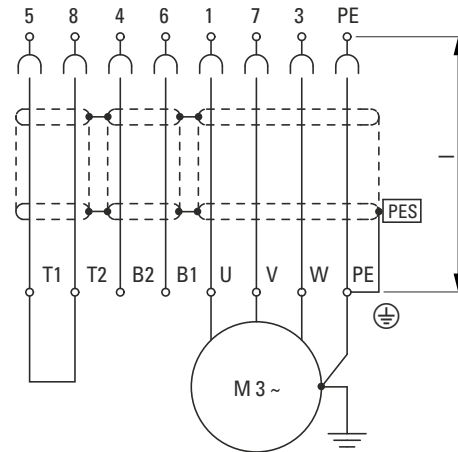
RASP5-xxx1..., RASP5-xxx2..., RASP5-xxx4...

(en) Motor connection plug	(nl) Motoraansluitstekker	(et) Mootori ühenduspistik	(bg) Съвързващ куплунг на мотора
(de) Motoranschlussstecker	(da) Motortilslutningsstik	(hu) Motorcsatlakozó dugó	(ro) Mufă conexiune motor
(fr) Fiche de connexion du moteur	(el) Βύσμα σύνδεσης κινητήρα	(lv) Motora savienošanas spraudnis	(hr) Priključni utikač motora
(es) Cable de conexión del motor	(pt) Ficha de junção do motor	(lt) Variklio jungiamasis kištukas	(tr) Motor bağlanti fişi
(it) Spina di collegamento motore	(sv) Kontakt för motoranslutning	(pl) Przyłącze silnika	(sr) Прикључни утикач мотора
(zh) 电机连接插头	(fi) Moottorin liitinpistoke	(sl) Vtič za priključitev motorja	(no) Motortilkoblingsplugg
(ru) Штекерный разъем электродвигателя	(cs) Připojovací zástrčka motoru	(sk) Zástrčka na pripojenie motoru	(uk) Штекер для підключення електродвигуна
			(ar) مقبس توصيل المحرك

RASP-CM2-2M0
RASP-CM2-5M0
RASP-CM2-10M

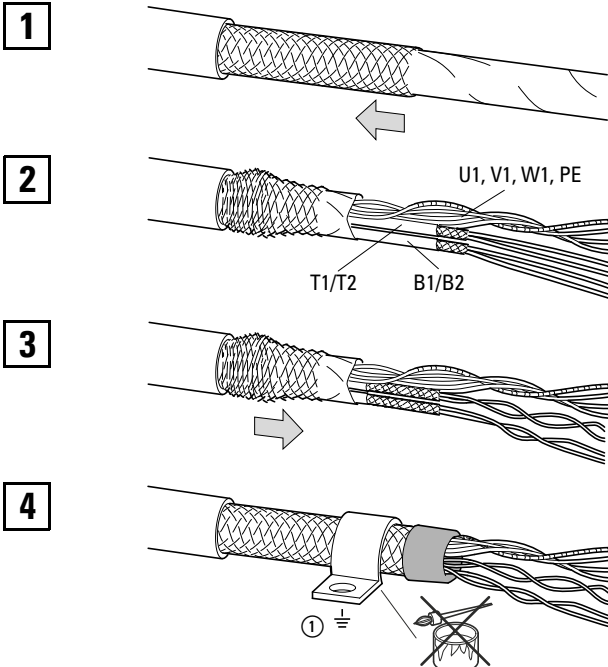


(en) Metal housing –	(de) Metallgehäuse –	(fr) Boîtier métallique –	(es) Carcasa metálica –	(it) Custodia metallica –
(zh) 金属外壳 –	(ru) Металлический корпус –	(nl) Metalen behuizing –	(da) Metalhus –	(el) Μεταλλικό περίβλημα –
(pt) Alojamento em metal –	(sv) Metallkapsling –	(fi) Metallikotelo –	(cs) Kovové pouzdro –	(et) Metallkorpus –
(hu) Fémház –	(lv) Metāla korpus –	(lt) Variklio gaubtas –	(pl) Metalowa obudowa –	(sl) Kovinsko ohišje –
(sk) Kovové puzdro –	(bg) Метален корпус –	(ro) Carcasă din metal –	(hr) Metalno kućište –	(tr) Metal kasalı –
(sr) Метално кућиште –	(no) Metallkapsling –	(uk) Металевий кожух –		(ar) المبيت المعدني



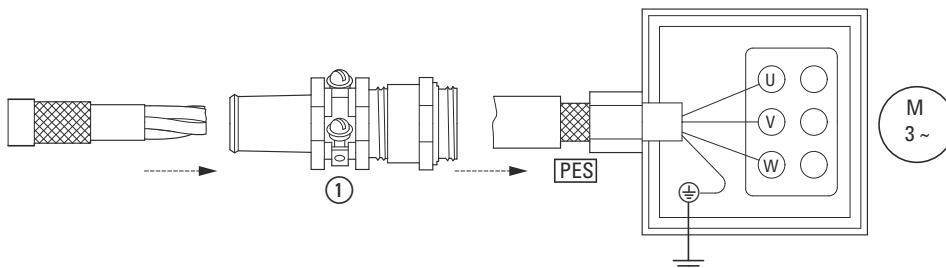
I = max. 20 m (max. 65.6 ft)
RASP-CM2-2M0 = 2 m (6.56 ft)
RASP-CM2-5M0 = 5 m (16.4 ft)
RASP-CM2-10M = 10 m (32.81 ft)

(en) EMC correct installation of motor conductors –	(de) EMV-gerechte Installation der Motorleitung –	(fr) Conformité CEM du raccordement du câble moteur –
(es) Instalación del cable del motor según CEM –	(it) Installazione conforme alle norme CEM del cavo motore –	(zh) 按照 EMV 规范安装电机电缆 –
(ru) Монтаж проводки двигателя с соблюдением требований ЭМС –	(nl) EMC-conforme installatie van de motorkabel –	(da) EMC-korrekt installation af motorledningen –
(el) Εγκατάσταση αγωγού κινητήρα σύμφωνα με τις απαιτήσεις ΗΜΣ –	(pt) Instalação do cabo do motor em conformidade com CEM –	
(sv) EMC-anpassad installation av motorledningen –	(fi) EMC-mukainen moottorin ohjauslaitteen asennus –	(cs) Instalace vedení motoru v souladu se směrnicí o elektromagnetické kompatibilitě EMC –
(et) Mootorikaabli elektromagnetilisele ühilduvusele vastav installeerimine –	(hu) A motorvezeték EMV-nek megfelelő installációja –	(lv) Motora vada montāža, ievērojot EMS direktīvas prasības –
(lt) Variklio laido instaliacija pagal EMS reikalavimus –	(pl) Instalacja przewodu silnikowego zgodna z przepisami w sprawie zgodności elektromagnetycznej –	(sl) Namestitve motorskega kabla skladno s predpisi o elektromagnetni združljivosti –
(sk) Elektromagnetická kompatibilita - správna inštalácia vedení motoru –	(bg) Монтаж на двигателния проводник в съответствие с изискванията на EMC –	(ro) Instalarea conformă CEM a cablului motor –
(hr) Instalacija vodova motora kompatibilna s EMC-om –	(tr) Motor iletkenlerinin EMC doğru kurulumu –	(sr) EMC ispravna instalacija provodnika motora –
(no) EMC-riktig installasjon av motorledere –	(uk) Прокладання проводів двигуна відповідно до вимог EMC –	
		(ar) التركيب الصحيح المطابق للتوافق الكهرومغناطيسي لموصلات المحرك

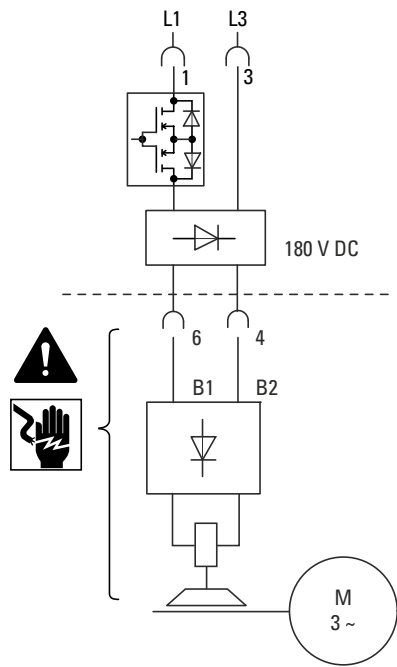


① PES 360°

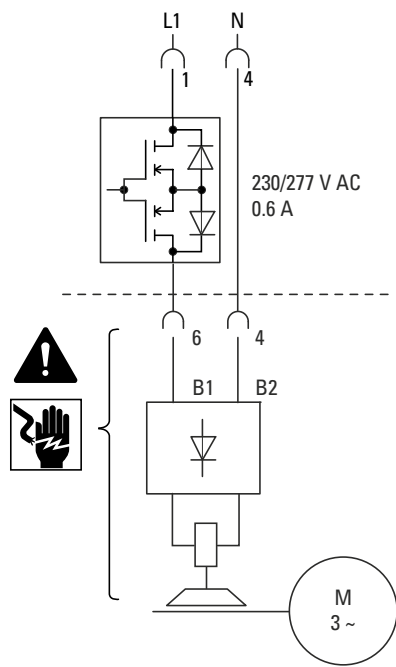
(en) Contacting –	(de) Kontaktierung –	(fr) Liaison électrique –	(es) Conexión –
(it) Formazione dei contatti –	(zh) 接触 –	(ru) Контакты –	(nl) Contact –
(da) Kontaktering –	(el) Επαφές –	(pt) Contacto –	(sv) Kontakta –
(fi) Liitääntä –	(cs) Napojen kontaktů –	(et) Kontaktid –	(hu) Kontaktálás –
(lv) Kontakta izveide –	(lt) Kontaktavimas –	(pl) Kontaktowanie –	(sl) kontaktiranje –
(sk) Vytvorenie kontaktu –	(bg) Контакт –	(ro) Contactare –	(hr) Kontaktiranje –
(tr) Temas etme –	(sr) Контактирање –	(no) Kontakter –	(uk) Контакт –
			(ar) التلامس



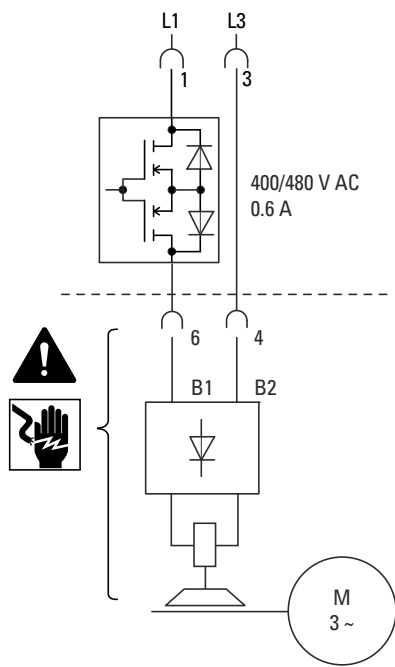
RASP5-xxx1...



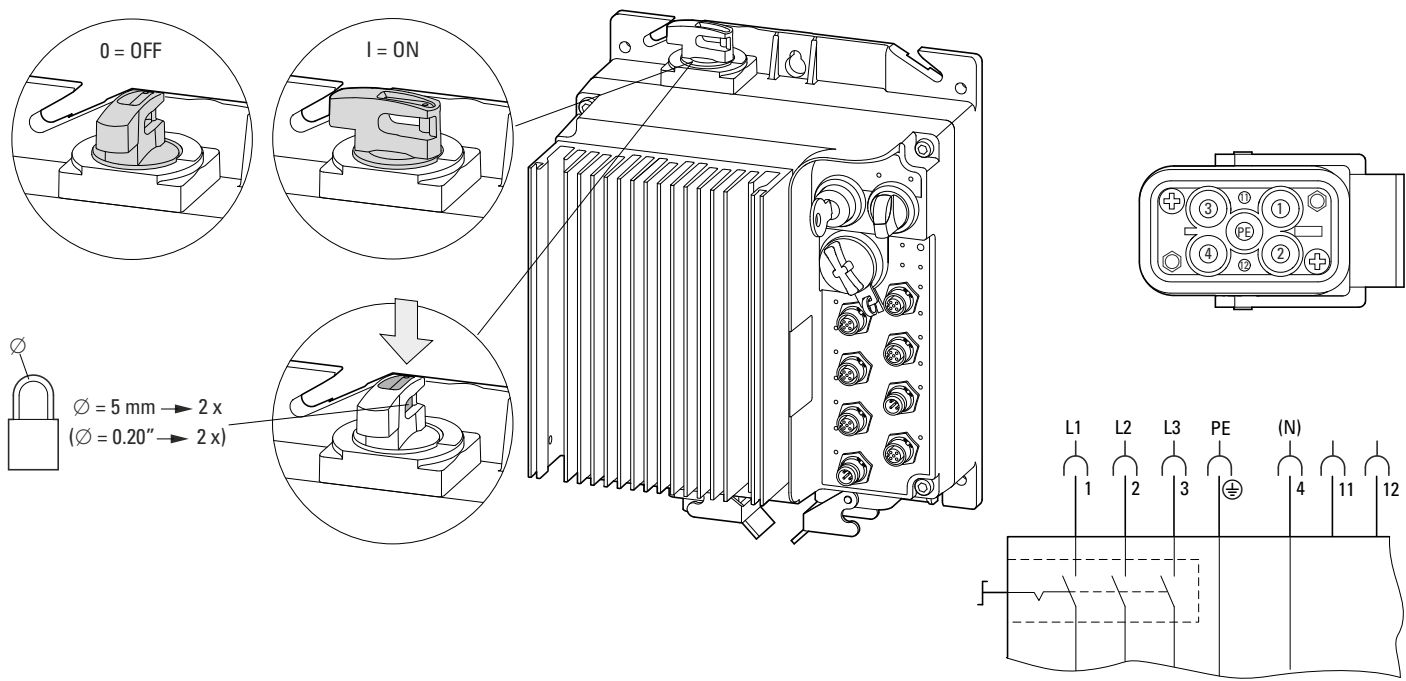
RASP5-xxx2...



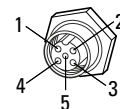
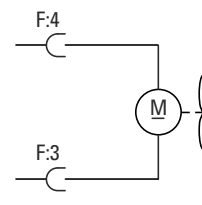
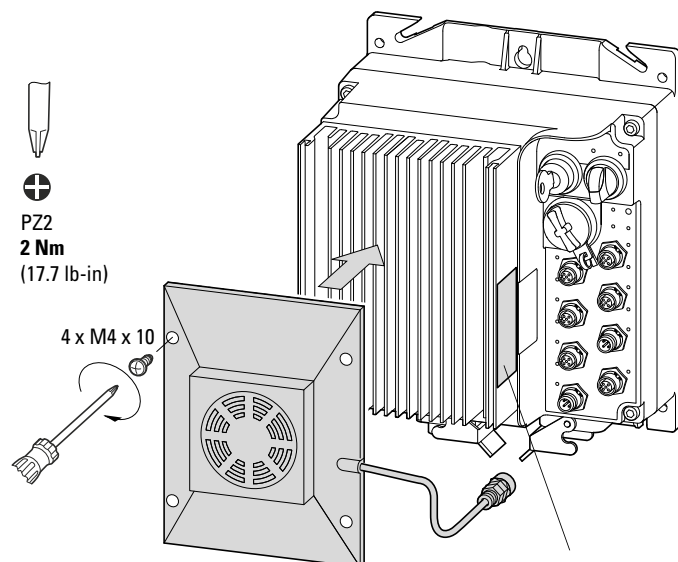
RASP5-xxx4...



RASP5-...-xxxR...



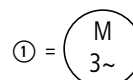
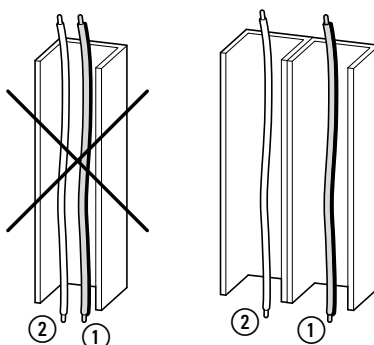
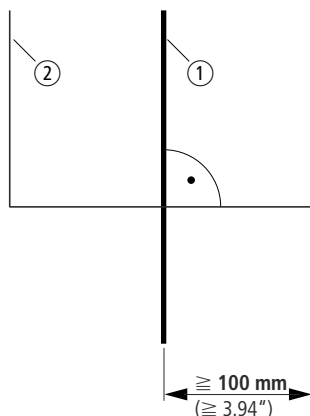
04/26 1L034093ZU



1	-
2	-
3	0 V
4	+24 V
5	-



04/26 IL034093ZU

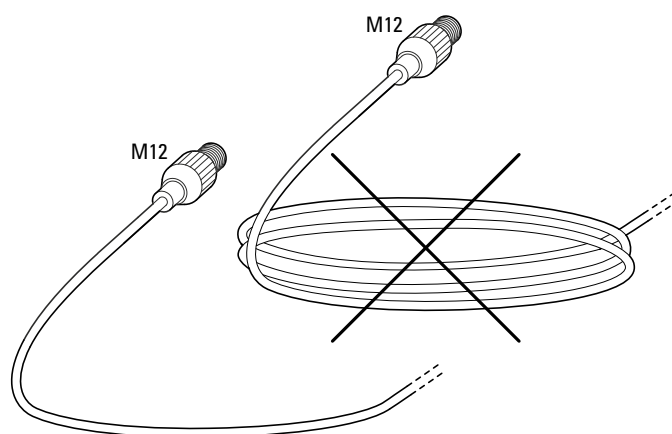
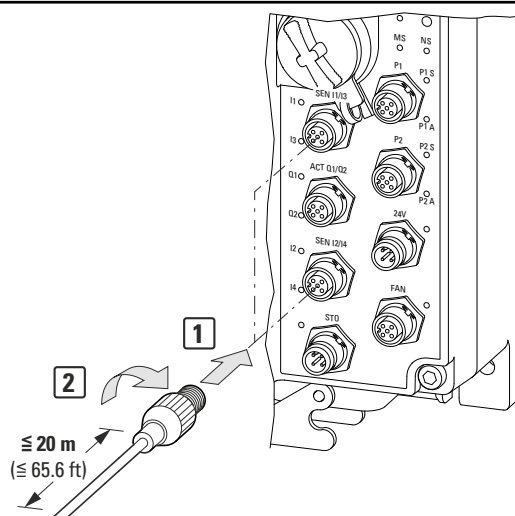


② = I1, I2, I3, I4, Q1, Q2
24 V DC

EtherNet/IP®

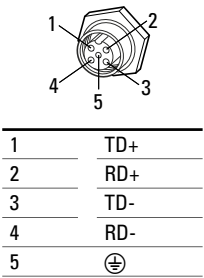
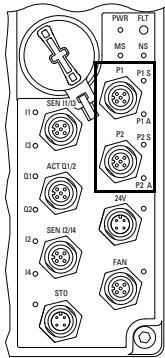
PROFI®
NET

M12

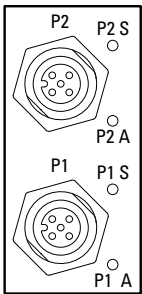
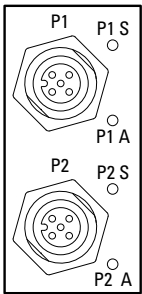


P1, P2

“D” coded – „D”-kodiert – Codage « D » – Con código “D” – Con codifica “D” – 已编码为 “D” – Кодирование “D” – “D”-gecodeerd – “D”-kodet – Με κωδικοποίηση “D” – Com código “D” – “D”-koderad – “D”-koodattu – Kódování “D” – “D”-kodeeritud – “D” kódolású – “D” kodëts – “D” kodavimo – Kodowany “D” – “D” kodirano – “D” - kód – Кодирание “D” – Codat “D” – “D” kodirano – “D” kodlu – “D” кодирано – D-kodet – Код D – مرمز "د"

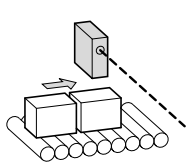


EtherNet/IP®



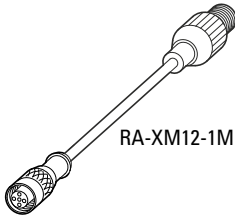
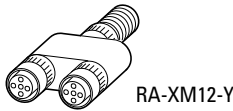
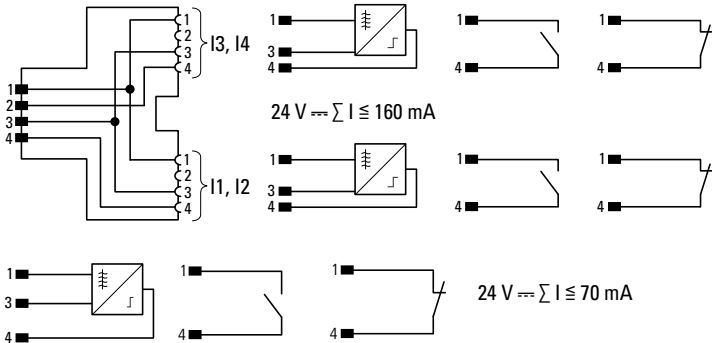
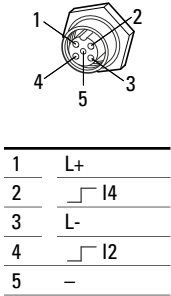
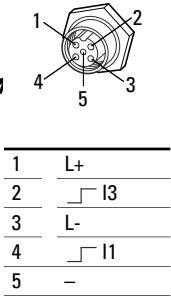
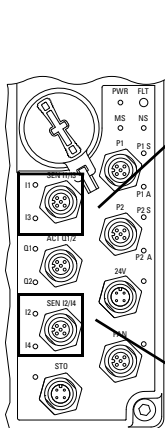
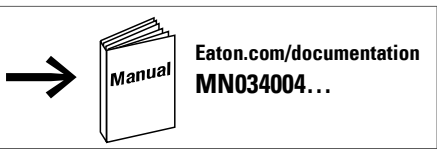
SEN: I1, I2, I3, I4

“A” coded – „A”-kodiert – Codage « A » – Con código “A” – Con codifica “A” – 已编码为 “A” – Кодирование “A” – “A”-gecodeerd – “A”-kodet – Με κωδικοποίηση “A” – Com código “A” – “A”-koderad – “A”-koodattu – Kódování “A” – “A”-kodeeritud – “A” kódolású – “A” kodëts – “A” kodavimo – Kodowany “A” – “A” kodirano – “A” - kód – Кодирание “A” – Codat “A” – “A” kodirano – “A” kodlu – “A” кодирано – A-kodet – Код A – مرمز "ا"



→ DIN IEC 304, DIN IEC 757

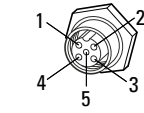
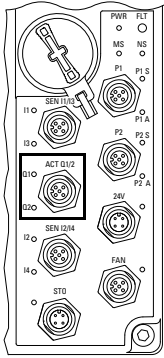
1	BN	1
2	WH	9
3	BU	6
4	BK	0
5	—	—



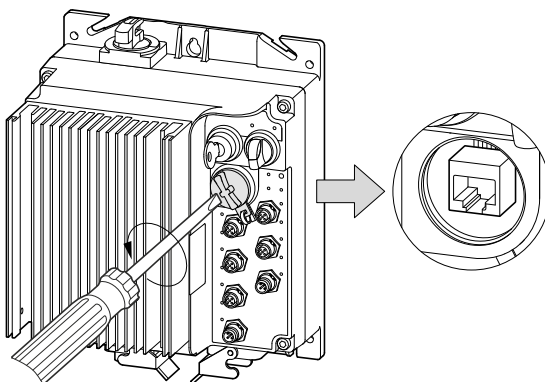
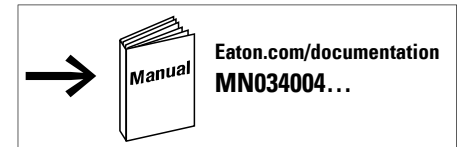
04/26 1L034093ZU

ACT: Q1, Q2

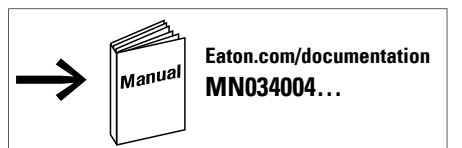
en "B" coded – de „B“-kodierte – fr Codage « B » – es Con código "B" – it Con codifica "B" – zh 已编码为 "B" – ru Кодирование "B" – nl "B"-gecodeerd – da "B"-kodet – el Με κωδικοποίηση "B" – pt Com código "B" – sv "B"-koderad – fi "B"-koodattu – cs Kódování "B" – et "B"-kodeeritud – hu "B" kódolású – lv "B" kodēts – it "B" kodavimo – pl Kodowany "B" – sl "B" kodirano – sk "B" - kód – bg Кодирание "B" – ro Codat "B" – hr "B" kodirano – tr "B" kodlu – sr "B" кодирано – no B-kodet – uk Код В – ar مرمز "ب"



1	0 V	Q2
2	+24 V DC	Q2 (≤ 1 A)
3	0 V	Q1
4	+24 V DC	Q1 (≤ 1 A)
5	—	

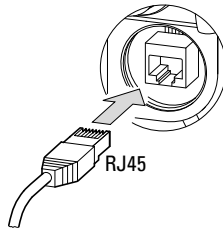
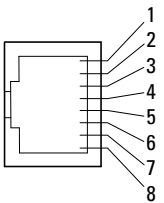


M32 x 1.5
2 Nm (17.7 lb-in)
4
14 x 2.5 mm



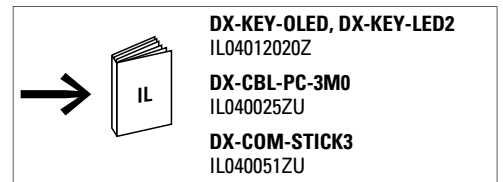
RJ 45 plug

04/26 IL034093ZU

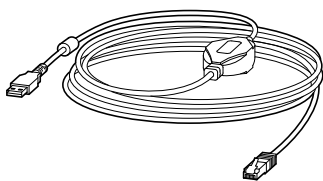


DX-CBL-PC-3M0
DX-KEY-OLED
DX-KEY-LED2
DX-COM-STICK3

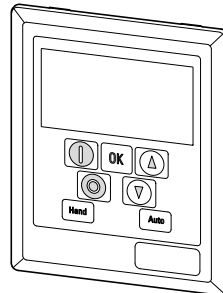
Eaton.com/documentation



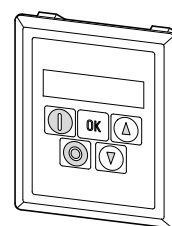
DX-CBL-PC-3M0



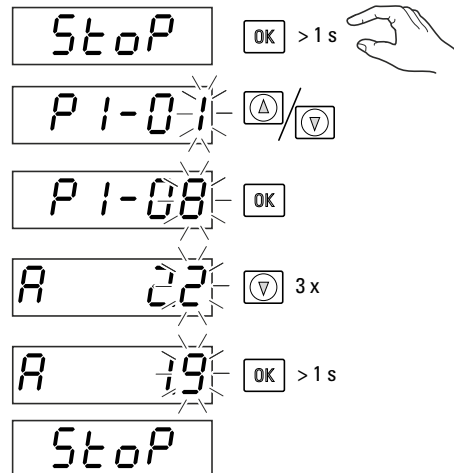
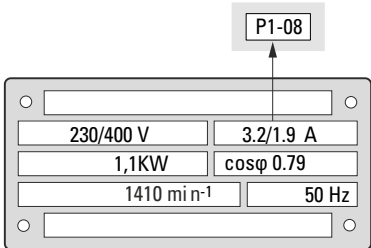
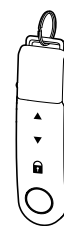
DX-KEY-OLED



DX-KEY-LED2



DX-COM-STICK3



- en

External 24 V DC control voltage
- de

Externe 24 V DC Steuerspannung
- fr

Tension de commande externe 24 V DC
- es

Tensión de control externa 24 V DC
- it

Tensione di comando esterna 24 V DC
- zh

外部控制电压 24 V DC
- ru

Внешнее управляющее напряжение 24 В пост. Тока
- nl

Externe stuurspanning 24 V DC
- da

Ekstern styrespænding 24 V DC
- el

Τάση εξωτερικού ελέγχου 24 V DC
- pt

Tensão de controlo externa 24 V DC
- sv

Extern styrspänning 24 V DC
- fi

Ulkoisen ohjausjännite 24 V DC
- cs

Externí řídicí napětí 24 V DC
- et

Välise juhtimispinge 24 V DC
- hu

Külső vezérlőfeszültség 24 V DC
- lv

Ārējā vadības spriegums 24 V DC
- lt

Išorinė valdymo įtampa 24 V DC
- pl

Zewnętrzne napięcie sterowania 24 V DC
- sl

Zunanja krmilna napetost 24 V DC
- sk

Externé riadiace napätie 24 V DC
- bg

Външно управляващо напрежение 24 V DC
- ro

Tensiune de control extern 24 V DC
- hr

Vanjski upravljački napon 24 V DC
- tr

Harici 24 V DC kumanda gerilimi
- sr

Спољни 24 V DC контролни напон
- no

Ekstern 24 V DC-styrespenning
- uk

Зовнішня напруга керування 24 В пост. струму
- ar

ولتية التحكم فى التيار المستمر بقوة 24 فولت من مصدر خارجي

- en

"A" coded –
- de

„A“-kodiert –
- fr

Codage « A » –
- es

Con código "A" –
- it

Con codifica "A" –
- zh

已编码为 "A" –
- ru

Кодирование "А" –
- nl

"A"-gecodeerd –
- da

"A"-kodet –
- el

Με κωδικοποίηση "Α" –
- pt

Com código "A" –
- sv

"A"-koderad –
- fi

"A"-koodattu –
- cs

Kódování "A" –
- et

"A"-kodeeritud –
- hu

"A" kódolású –
- lv

"A" kodēts –
- lt

"A" kodavimo –
- pl

Kodowany "A" –
- sl

"A" kodirano –
- sk

"A" - kód –
- bg

Кодиране "А" –
- ro

Codat "A" –
- hr

"A" kodirano –
- tr

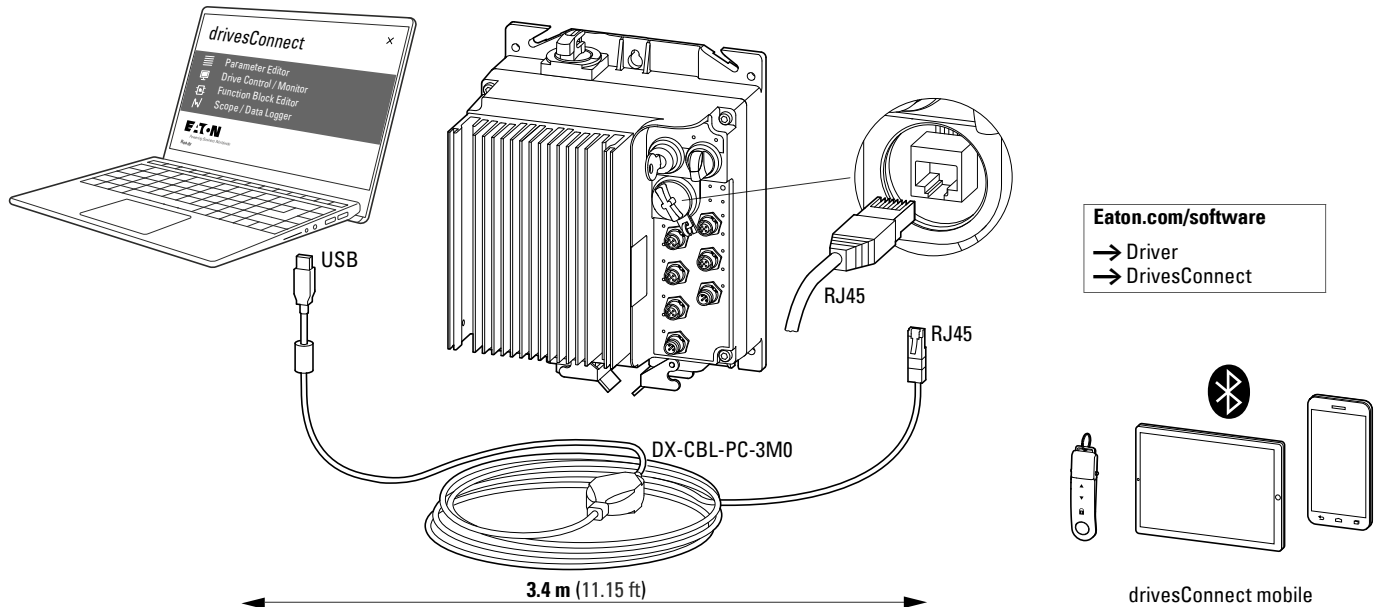
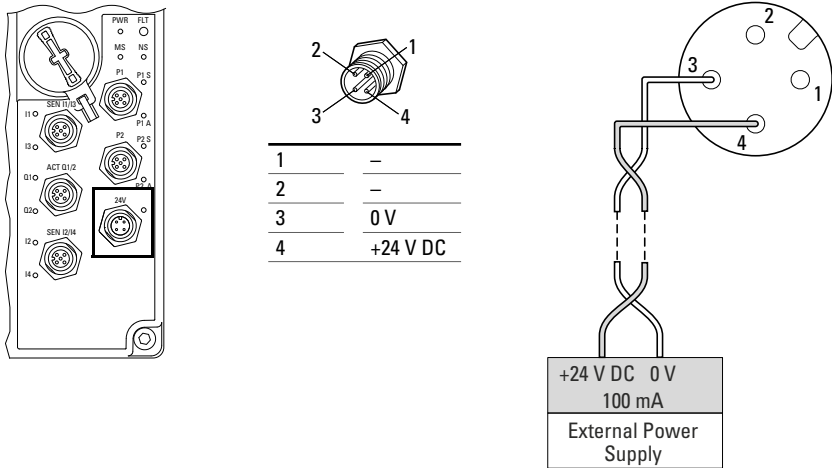
"A" kodlu –
- sr

"A" кодирано –
- no

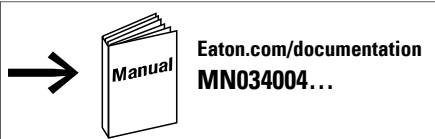
A-kodet –
- uk

Код А –
- ar

"مُرَّمز" "A"



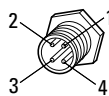
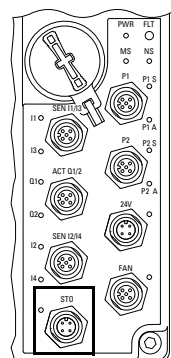
STO



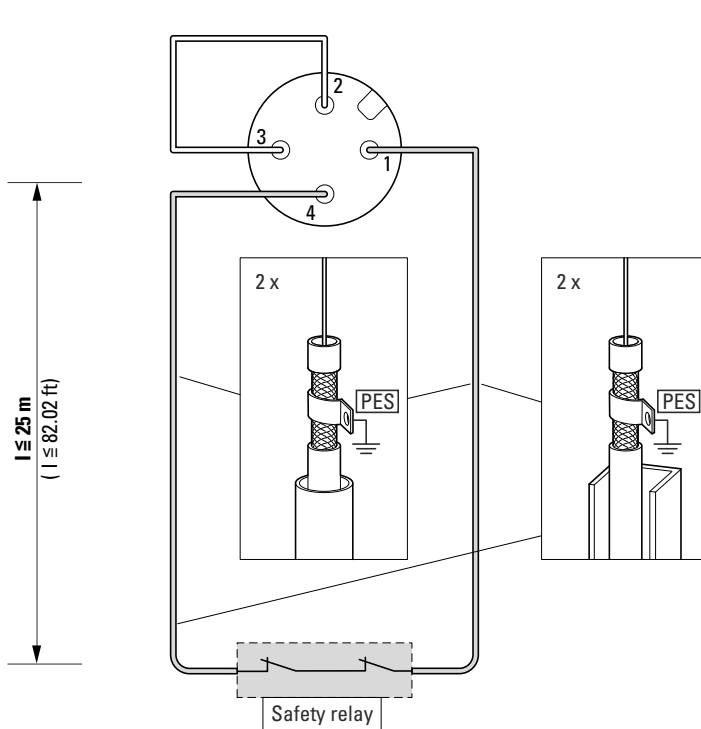
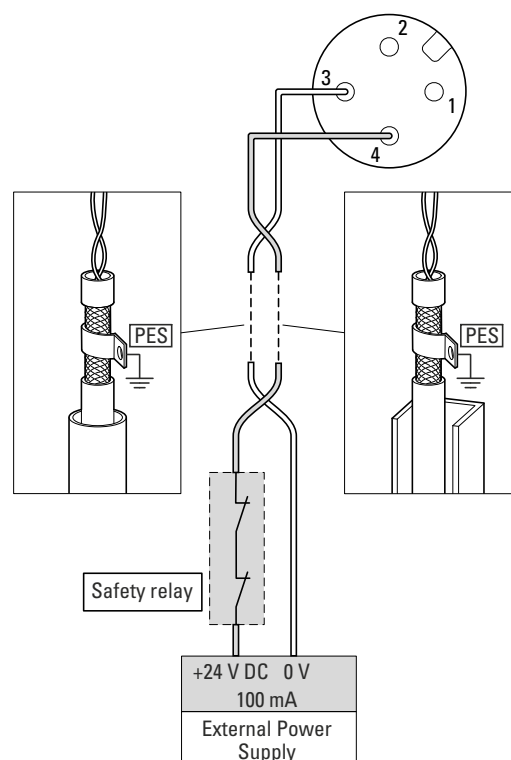
- (en) STO with **external** supply
(de) STO mit **externer** Versorgung
(fr) STO avec alimentation **externe**
(es) Función Safe Torque Off (STO) con suministro **externo**
(it) STO con alimentazione **esterna**
(zh) 安全转矩关闭 (STO), 带外部电源
(ru) Безопасное отключение крутящего момента с **внешним** источником питания
(nl) STO met **externe** voeding
(da) Sikkert frakoblet moment med **ekstern** strømforsyning
(el) STO με **εξωτερική** τροφοδοσία
(pt) Binário de segurança desligado (STO) com alimentação **externa**
(sv) STO (säkert fränkopplat vridmoment) med **extern** försörjning
(fi) STO, **ulkoinen** syöttö
(cs) Funkce STO s **externím** zdrojem
(et) STO (ohutu pöördemomendi väljalülitamine) **välise** toitega
(hu) STO **külső** táppal
(lv) STO (droša griezes momenta izslēgšana) ar **ārējo** barošanas avotu
(lt) STO (saugus variklio momento išjungimas) su **išoriniu** maitinimu
(pl) Bezpieczne wyłączenie momentu obrotowego (STO) z **zewnątrznym** zasilaniem
(sl) Komponenta s funkcijo STO z **zunanjim** napajanjem
(sk) STO (bezpečne vypnutý krútiaci moment) s **externým** napájaním
(bg) STO с **външно** захранване
(ro) Cuplu sigur dezactivat cu alimentare **externă**
(hr) STO (sigurnosni isklon momenta) s **vanjskim** napajanjem
(tr) **Harici** besleme ile STO
(sr) STO са спољним напајањем
(no) STO med ekstern forsyning
(uk) Механізм STO із **зовнішнім** живленням
(ar) مع إمداد خارجي STO

- (en) STO with **internal** supply
(de) STO mit **interner** Versorgung
(fr) STO avec alimentation **interne**
(es) Función Safe Torque Off (STO) con suministro **interno**
(it) STO con alimentazione **interna**
(zh) 安全转矩关闭 (STO), 带内部电源
(ru) Безопасное отключение крутящего момента с **внутренним** источником питания
(nl) STO met **interne** voeding
(da) Sikkert frakoblet moment med **intern** strømforsyning
(el) STO με **εσωτερική** τροφοδοσία
(pt) Binário de segurança desligado (STO) com alimentação **interna**
(sv) STO (säkert fränkopplat vridmoment) med **intern** försörjning
(fi) STO, **sisäinen** syöttö
(cs) Funkce STO s **interním** zdrojem
(et) STO (ohutu pöördemomendi väljalülitamine) **sisemise** toitega
(hu) STO **belső** táppal
(lv) STO (droša griezes momenta izslēgšana) ar **iekšējo** barošanas avotu
(lt) STO (saugus variklio momento išjungimas) su **vidiniu** maitinimu
(pl) Bezpieczne wyłączenie momentu obrotowego (STO) z **wewnętrznym** zasilaniem
(sl) Komponenta s funkcijo STO z **notranjim** napajanjem
(sk) STO (bezpečne vypnutý krútiaci moment) s **vnútorným** napájaním
(bg) STO с **вътрешно** захранване
(ro) Cuplu sigur dezactivat cu alimentare **internă**
(hr) STO (sigurnosni isklon momenta) s **internim** napajanjem
(tr) **Dahili** besleme ile STO
(sr) STO са унутрашњим напајањем
(no) STO med intern forsyning
(uk) Механізм STO з **внутрішнім** живленням
(ar) مع إمداد داخلي STO

04/26 IL034093ZU



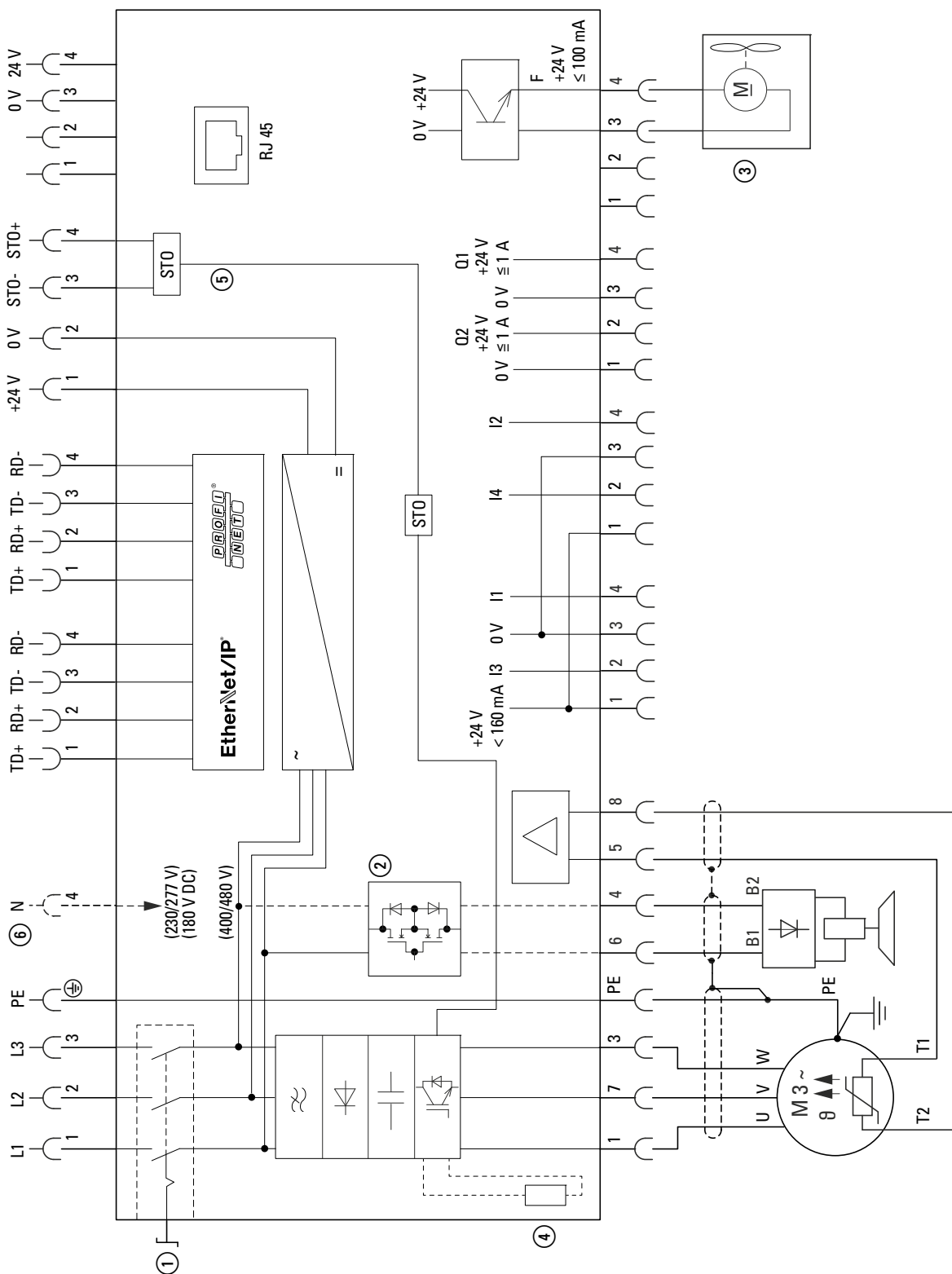
1	+24 V
2	0 V
3	STO- 0V
4	STO+ 24 V



RASP5-...

3~ 380 - 480 V, N, PE, 50/60 Hz

- ① RASP5-...-xxxR...
- ② RASP5-xxx1... (180 V DC)
RASP5-xxx2... (230/277 V)
RASP5-xxx3... (400/480 V)
- ③ RASP5-...-xxxxxx1xx (FAN)
- ④ RASP5-...-xxxx1... (Brake resistor)
- ⑤ RASP5-...-xxxxx1xxx (STO)
- ⑥ RASP5-xxx1... (180 V DC), RASP5-xxx2... (230/277 V) **only**



EU Declaration of Conformity

EU250840en

EU

We, Eaton Industries GmbH,
Hein-Moeller-Str. 7-11, 53115 Bonn, Germany,

hereby declare under our sole responsibility as manufacturer that the product family

Variable frequency drive RASP5 (STO)

including the product group(s)

RASP5-...EIP-xxxxx1...

RASP5-...PNT-xxxxx1...

complies with the statutory provisions of the following Council Directive(s), provided that the manufacturer's specifications and relevant installation instructions are observed and the products are installed, maintained, and used in the intended applications according to the "recognized rules of technology":

Ecodesign - Drives 2009/125/EC

EMC directive 2014/30/EU

Machinery directive 2006/42/EC

RoHS directive 2011/65/EU + 2015/863

This is based on compliance with the following standards:

EN 61508-1:2010

EN 61508-2:2010

EN 61508-4:2010

EN 61508-5:2010

EN 61508-6:2010

EN 61508-7:2010

EN 61800-5-1:2007 + A1:2017 + A11:2021

EN 61800-5-2:2007

EN 61800-5-2:2017

EN 61800-9-2:2017

EN IEC 61800-3:2018

EN IEC 62061:2021

EN IEC 63000:2018

EN ISO 13849-1:2015

EN ISO 13849-1:2023

The products conform to a tested production sample, whose compliance with the respective directive has been certified:

EC-Type Examination Certificate NB 0035-TÜV Rheinland, Am Grauen Stein, 51105 Köln/Germany
01/205/5747.02/25, 2025-01-31

Additional notes:

Safe Torque Off (STO) within the Variable Frequency Drive Inverters. The safety function complies with the requirements of SIL3 according to EN 61800-5-2/EN 61508 and PL e/Cat.3 according to EN ISO 13849-1 and can be used in safety applications up to these safety levels and in the scope of EN IEC 62061:2021.

Authorized representative to compile the technical file:

Eaton Industries GmbH, Hein-Moeller-Str. 7-11, 53115 Bonn, Germany



Powering Business Worldwide™

Bonn, 2025-04-02

Edgar Willems

Quality Director PMCC ICA & PSP

Lars Gundlach

Product Line Manager Industrial Controls & Automation

UK Declaration of Conformity

UK251323en

UK

We, Eaton Industries GmbH,
Hein-Moeller-Str. 7-11, 53115 Bonn, Germany,

hereby declare under our sole responsibility as manufacturer that the product family

Variable frequency drive RASP5 (STO)

including the product group(s)

RASP5-...EIP-xxxxx1...

RASP5-...PNT-xxxxx1...

complies with the statutory provisions of the following Council Directive(s), provided that the manufacturer's specifications and relevant installation instructions are observed and the products are installed, maintained, and used in the intended applications according to the "recognized rules of technology":

Ecodesign for Energy-Related Products and Energy Information

Regulations 2021 No. 745

RoHS in Electrical and Electronic Equipment Regulations 2012 No. 3032

The Electromagnetic Compatibility Regulations 2016 No. 1091

The Supply of Machinery (Safety) Regulations 2008 No. 1597

This is based on compliance with the following standards:

EN 61508-1:2010

EN 61508-2:2010

EN 61508-4:2010

EN 61508-5:2010

EN 61508-6:2010

EN 61508-7:2010

EN 61800-5-1:2007 + A1:2017 + A11:2021

EN 61800-5-2:2007

EN 61800-5-2:2017

EN 61800-9-2:2017

EN IEC 61800-3:2018

EN IEC 62061:2021

EN IEC 63000:2018

EN ISO 13849-1:2015

EN ISO 13849-1:2023

Additional notes:

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Powering Business Worldwide™

Bonn, 2025-04-02

Edgar Willems

Quality Director PMCC ICA & PSP

Lars Gundlach

Product Line Manager Industrial Controls & Automation

UL® Cautions, Warnings and Instructions

UL® File: E253552
UL61800-5-1
CSA C22.2 No 274

USA: ULus

Indicates Investigated to United States Standard UL61800-5-1 - Listed.

Canada: cUL

Indicates Investigated to Canadian Standard CSA 22.2 No.274 - Listed

Electrical ratings

Model – 400 V Range		Input (3-phase) FLA	Output (3-phase) FLA	Power kW	Power HP
Frame Size	Model number				
1A	RASP5-2...	2.4	2.4	0.75	1.0
1A	RASP5-3...	3.3	3.3	1.1	1.5
1A	RASP5-4...	4.3	4.3	1.5	2.0
1A	RASP5-5...	5.6	5.6	2.2	3.0
1B	RASP5-6...	6.8	6.8	3.0	4.0
1B	RASP5-8...	8.5	8.5	4.0	5.0

Frame size 1A = no external fan fitted.
Frame size 1B = external fan fitted.
Input voltage 380 - 480/277 V AC, 50/60 Hz
Output voltage 20 - 500 V AC, 0 - 500 Hz

Short circuit rating

Model	Short circuit rating (kA)		
	Fuses (J-Type)	Breakers (Type C)	...When protected by
RASP5	100 kA	... Class J fuses	
	10 kA	... Circuit breaker (Type C)	
	65 kA	... Type E Combination Motor Controller	
RASP5-...-xxxR (with repair switch)	10 kA	... Class J fuses	
		... Circuit breaker (Type C)	
		... Type E Combination Motor Controller	

NOTICE

Suitable for use on a circuit capable of delivering not more than 100 000 rms symmetrical amperes, 480 volts maximum. Suitable for motor group installation. When protected by J class fuses rated 30 A.

Suitable for use on a circuit capable of delivering not more than 65 000 rms symmetrical amperes, 480 volts maximum. When protected by type E combination motor controller model PKZM4-32 manufactured by Eaton rated 480Y/277 V AC 20 HP.

Suitable for use on a circuit capable of delivering not more than 10 000 rms symmetrical amperes, 480 volts maximum. Suitable for motor group installation. When protected by a circuit breaker having an interrupting rating not less than 10 000 rms symmetrical amperes, 480 volts maximum, rated 32 A.

RASP5-...-xxxR (disconnect switch)

NOTICE

Suitable for use on a circuit capable of delivering not more than 10 000 rms symmetrical amperes, 480 volts maximum. Suitable for motor group installation. When Protected by J Class fuses rated 30 A.

Suitable for use on a circuit capable of delivering not more than 10 000 rms symmetrical amperes, 480 volts maximum. Suitable for motor group installation. When protected by circuit breaker having an interrupting rating not less than 10 000 rms symmetrical amperes, 480 volts maximum, rated 32 A.

Suitable for use on a circuit capable of delivering not more than 10 000 rms symmetrical amperes, 480 volts maximum. When protected by type E combination motor controller model PKZM4-32 manufactured by Eaton rated 480Y/277 V AC 20 HP.

General

- These devices are solid state variable/speed ac drive inverters which convert a fixed frequency three phase input voltage to a 3-phase, variable frequency, variable voltage output. The inverter automatically maintains the required volts-Hz ratio allowing the ac motor to run at its optimum efficiency and provide constant torque capability through the motor speed range.
- The power conversion equipment provides solid state motor overload protection.
- Over-Current function was evaluated. Maximum current limit is 150 percent of FLC. The adjustable range is 0 to 150 percent of FLC.
- Drive is provided with solid state short circuit protection circuitry which is the same throughout the series. Current sensing is accomplished by monitoring the DC bus and/or all the motor outputs.
- These drives or control units have not been evaluated as providing a safety or limiting feature.
- The devices use the supplied thermocouple in the IGBT packs to control thermal functions – 100 % production test used to confirm functionality.
- These devices are for installation in overvoltage category III and pollution degree 3.
- Auxiliary control outputs intended to drive resistive load.

Terminals – All Models	Qty	Maximum ratings
Sensor supply	3	24 V 100 mA
Motor Brake	1	600 mA 400 V (6 A < 120 ms)

Environmental ratings

- Maximum ambient air temperature: 55 °C
- Enclosure type 12

Further specifications and information

- Use copper conductors only
- 75 °C wire only
- Integral solid state short circuit protection does not provide branch circuit protection. Branch circuit protection must be provided in accordance with the National Electrical Code and any additional local codes or the equivalent.



WARNING

The opening of the branch-circuit protective device may be an indication that a fault has been interrupted. To reduce the risk of fire or electric shock, current-carrying parts and other components of the controller should be examined and replaced if damaged.



ATTENTION

THE OPENING OF THE BRANCH-CIRCUIT PROTECTIVE DEVICE MAY BE AN INDICATION THAT A FAULT HAS BEEN INTERRUPTED. TO REDUCE THE RISK OF FIRE OR ELECTRIC SHOCK, CURRENT-CARRYING PARTS AND OTHER COMPONENTS OF THE CONTROLLER SHOULD BE EXAMINED AND REPLACED IF DAMAGED. IF BURNOUT OF THE CURRENT ELEMENT OF AN OVERLOAD RELAY OCCURS, THE COMPLETE OVERLOAD RELAY MUST BE REPLACED.

