



## Variator De Viteza - 3Kw- 400V - 3 Faze - Atv340 Ethernet

ATV340U30N4E

### Principale

|                                      |                                                                 |
|--------------------------------------|-----------------------------------------------------------------|
| gama de produse                      | Altivar Machine ATV340                                          |
| Tip produs sau componenta            | Variator de viteza                                              |
| aplicatie specifica produsului       | Machine                                                         |
| mod de montare                       | Cabinet mount                                                   |
| varianta                             | Standard version                                                |
| Port protocol de comunicatie         | Serial Modbus<br>Modbus TCP<br>Ethernet/IP                      |
| numar faze in retea                  | 3 faze                                                          |
| frecventa de alimentare              | 50...60 Hz +/- 5 %                                              |
| [Us] tensiune nominala de alimentare | 380...480 V - 15...10 %                                         |
| curent nominal de iesire             | 7,2 A                                                           |
| putere motor kW                      | 4 kW pentru serviciu normal<br>3 kW pentru pentru sarcini grele |
| putere motor hp                      | 3 CP pentru pentru sarcini grele<br>5 CP pentru serviciu normal |
| filtru EMC                           | Class C3 EMC filter integrated                                  |
| grad de protectie IP                 | IP20                                                            |

### Suplimentare

|                            |                                                                                                                                                                                                                                                                                                                                                   |
|----------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| numar intrare discreta     | 5                                                                                                                                                                                                                                                                                                                                                 |
| tip de intrare discreta    | PTI programmable as pulse input 0...30 kHz, 24 V c.c. (30 V)<br>DI1...DI5 cuplu de siguranță, 24 V c.c. (30 V), impedanță: 3.5 kOhm<br>programabile                                                                                                                                                                                               |
| number of preset speeds    | 16 preset speeds                                                                                                                                                                                                                                                                                                                                  |
| numar iesire discreta      | 2,0                                                                                                                                                                                                                                                                                                                                               |
| tip de iesire discreta     | Programmable output DQ1, DQ2 30 V c.c. 100 mA                                                                                                                                                                                                                                                                                                     |
| numarul intrarii analogice | 2                                                                                                                                                                                                                                                                                                                                                 |
| tip de intrare analogica   | AI1 curent configurabil soft 0...20 mA, impedanță: 250 Ohm, rezoluție 12 biti<br>AI1 sonda de temperatura configurabila cu soft sau senzor de nivel de apa<br>AI1 tensiune configurabilă soft 0...10 V c.c., impedanță: 31.5 kOhm, rezoluție 12 biti<br>AI2 tensiune configurabilă soft - 10...10 V c.c., impedanță: 31.5 kOhm, rezoluție 12 biti |
| numarul iesirii analogice  | 1                                                                                                                                                                                                                                                                                                                                                 |
| tip iesire analogica       | Tensiune configurabilă soft AQ1 0...10 V c.c. 470 Ohm, rezoluție 10 bits<br>Curent configurabil soft AQ1 0...20 mA 500 Ohm, rezoluție 10 bits                                                                                                                                                                                                     |

Declinare de responsabilitate: Această documentație nu se substituie și nu trebuie utilizată pentru stabilirea adecvării sau fiabilității acestor produse pentru aplicații utilizator

|                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
|-----------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| numarul iesirii releu                   | 2                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| tensiune de iesire                      | <= tensiunea de alimentare                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| tip releu iesire                        | Ieșiri releu R1A<br>Ieșiri releu R1C 100000 cic<br>Ieșiri releu R2A<br>Ieșiri releu R2C 100000 cic                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| curent maxim de comutatie               | Relay output R1C pornit rezistiv sarcina, cos phi = 1 3 A la 250 V c.a.<br>Relay output R1C pornit rezistiv sarcina, cos phi = 1 3 A la 30 V c.c.<br>Relay output R1C pornit inductiv sarcina, cos phi = 0,4 si stanga/dreapta = 7 ms 2 A la 250 V c.a.<br>Relay output R1C pornit inductiv sarcina, cos phi = 0,4 si stanga/dreapta = 7 ms 2 A la 30 V c.c.<br>Relay output R2C pornit rezistiv sarcina, cos phi = 1 5 A la 250 V c.a.<br>Relay output R2C pornit rezistiv sarcina, cos phi = 1 5 A la 30 V c.c.<br>Relay output R2C pornit inductiv sarcina, cos phi = 0,4 si stanga/dreapta = 7 ms 2 A la 250 V c.a.<br>Relay output R2C pornit inductiv sarcina, cos phi = 0,4 si stanga/dreapta = 7 ms 2 A la 30 V c.c. |
| curentul minim de comutare              | Relay output R1B 5 mA la 24 V c.c.<br>Relay output R2C 5 mA la 24 V c.c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| interfata fizica                        | RS 485 cu 2 fire                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| tipul conectorului                      | 3 RJ45                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| metoda de acces                         | Slave Modbus RTU<br>Slave Modbus TCP                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| rata de transmisie                      | 4.8 kbit/s<br>9.6 kbit/s<br>19.2 kbit/s<br>38.4 kbit/s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| cadrul de transmisie                    | RTU                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| numarul de adrese                       | 1...247                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |
| format date                             | 8 biti, configurabil impar, par sau fara paritate                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| tip de polarizare                       | Fara impedanta                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               |
| 4 quadrant operation possible           | Adevarat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| profil de control al motorului asincron | Mod de cuplu optim<br>Cuplu variabil standard<br>Constanta de cuplu standard                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| profil de control al motorului sincron  | Reluctance motor<br>Permanent magnet motor                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| grad de poluare                         | 2 conformitate cu IEC 61800-5-1                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| frecventa maxima de iesire              | 0,599 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| rampe de accelerare si decelerare       | S, U sau personalizat<br>Reglabil liniar separat, de la 0,01 la 9999 s                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| compensare alunecare motor              | Reglabil<br>Not available in permanent magnet motor law<br>Poate fi suprimat<br>Automat indiferent de sarcina                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| frecventa de comutare                   | 2...16 kHz reglabil<br>7...16 kHz cu                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| frecventa de comutare nominala          | 4 kHz                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| franare sau imobil                      | Cu injectie c.c.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| Brake chopper integrated                | Adevarat                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     |
| curent de linie                         | 8,6 A la 380 V (serviciu normal)<br>6,8 A la 480 V (serviciu normal)<br>10,7 A la 380 V (pentru sarcini grele)<br>8,5 A la 480 V (pentru sarcini grele)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      |

|                                                         |                                                                                                                                                                                                                                                                                                                                                                                     |
|---------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| curent de linie                                         | 10,7 A la 380 V without line choke (pentru sarcini grele)<br>8,5 A la 480 V without line choke (pentru sarcini grele)<br>8,6 A la 380 V with external line choke (serviciu normal)<br>6,8 A la 480 V with external line choke (serviciu normal)<br>6,6 A la 380 V with external line choke (pentru sarcini grele)<br>5,3 A la 480 V with external line choke (pentru sarcini grele) |
| Curent maxim de intrare                                 | 10,7 A                                                                                                                                                                                                                                                                                                                                                                              |
| Maximum output voltage                                  | 480 V                                                                                                                                                                                                                                                                                                                                                                               |
| putere aparenta                                         | 6,7 kVA la 480 V (serviciu normal)<br>7,1 kVA la 480 V (pentru sarcini grele)                                                                                                                                                                                                                                                                                                       |
| curent tranzitoriu maxim                                | 10,2 A in timpul 60 s (serviciu normal)<br>12,6 A in timpul 2 s (serviciu normal)<br>13 A in timpul 2 s (pentru sarcini grele)<br>11 A in timpul 60 s (pentru sarcini grele)                                                                                                                                                                                                        |
| conexiune electrica                                     | Borna cu surub, capacitate de prindere: 1.5...4 mm <sup>2</sup> pentru line side<br>Borna cu surub, capacitate de prindere: 4...6 mm <sup>2</sup> pentru DC bus<br>Borna cu surub, capacitate de prindere: 1.5...4 mm <sup>2</sup> pentru motor<br>Borna cu surub, capacitate de prindere: 0.2...2.5 mm <sup>2</sup> pentru control                                                 |
| curent de scurtcircuit prezumat I <sub>sc</sub>         | 5 kA                                                                                                                                                                                                                                                                                                                                                                                |
| Base load current at high overload                      | 7,2 A                                                                                                                                                                                                                                                                                                                                                                               |
| Base load current at low overload                       | 9,3 A                                                                                                                                                                                                                                                                                                                                                                               |
| puterea disipata in W                                   | Convectie naturala 78 W la 380 V 4 kHz (pentru sarcini grele)<br>Convectie fortata 78 W la 380 V 4 kHz (pentru sarcini grele)<br>Convectie naturala 96 W la 380 V 4 kHz (serviciu normal)<br>Convectie fortata 96 W la 380 V 4 kHz (serviciu normal)                                                                                                                                |
| conexiune electrica                                     | Line side borna cu surub 1.5...4 mm <sup>2</sup> AWG 14...AWG 12<br>DC bus borna cu surub 4...6 mm <sup>2</sup> AWG 12...AWG 10<br>Motor borna cu surub 1.5...4 mm <sup>2</sup> AWG 14...AWG 12<br>Control borna cu surub 0.2...2.5 mm <sup>2</sup> AWG 24...AWG 12                                                                                                                 |
| cu functia de siguranta Safely Limited Speed (SLS)      | Adevarat                                                                                                                                                                                                                                                                                                                                                                            |
| cu functia de siguranta Safe brake management (SBC/SBT) | Adevarat                                                                                                                                                                                                                                                                                                                                                                            |
| cu functia de siguranta Safe Operating Stop (SOS)       | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe Position (SP)              | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe programmable logic         | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe Speed Monitor (SSM)        | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe Stop 1 (SS1)               | Adevarat                                                                                                                                                                                                                                                                                                                                                                            |
| cu functia de siguranta Safe Stop 2 (SS2)               | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe torque off (STO)           | Adevarat                                                                                                                                                                                                                                                                                                                                                                            |
| cu functia de siguranta Safely Limited Position (SLP)   | Fals                                                                                                                                                                                                                                                                                                                                                                                |
| cu functia de siguranta Safe Direction (SDI)            | Fals                                                                                                                                                                                                                                                                                                                                                                                |

|                           |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
|---------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| tip de protectie          | Protectie termica motor<br>Safe torque off motor<br>Pierdere de fază a motorului motor<br>Protectie termica variator<br>Safe torque off variator<br>Suprincalzire variator<br>Supracurent variator<br>Output overcurrent between motor phase and earth variator<br>Output overcurrent between motor phases variator<br>Short-circuit between motor phase and earth variator<br>Scurtcircuit între fazele motorului variator<br>Pierdere de fază a motorului variator<br>DC Bus overvoltage variator<br>Supratensiune în linia de alimentare variator<br>Scăderea tensiunii de alimentare variator<br>Input supply loss variator<br>Exceeding limit speed variator<br>Defectarea circuitului de comandă variator |
| latime                    | 85,0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
| inaltime                  | 270,0 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| adancime                  | 232,5 mm                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| greutate produs           | 2,2 kg                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| curent la iesire continuu | 9,3 A la 4 kHz pentru serviciu normal<br>7,2 A la 4 kHz pentru pentru sarcini grele                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |

## Mediu

|                                                                         |                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
|-------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| altitudinea de functionare                                              | <= 3000 m with current derating above 1000m                                                                                                                                                                                                                                                                                                                                                                                                                 |
| pozitie de operare                                                      | Vertical +/- 10 grade                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| certificari produs                                                      | UL<br>CSA<br>TÜV<br>EAC<br>CTick                                                                                                                                                                                                                                                                                                                                                                                                                            |
| marcaj                                                                  | CE                                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| standarde                                                               | IEC 61800-3<br>IEC 61800-5-1<br>IEC 60721-3<br>IEC 61508<br>IEC 13849-1<br>UL 618000-5-1<br>UL 508C                                                                                                                                                                                                                                                                                                                                                         |
| stil de asamblare                                                       | Cu radiator                                                                                                                                                                                                                                                                                                                                                                                                                                                 |
| compatibilitate electromagnetica                                        | Test de imunitate la descarcari electrostatice nivel 3 conforming to IEC 61000-4-2<br>Test de imunitate la frecventa radio radiata nivel 3 conforming to IEC 61000-4-3<br>Tranzienți rapizi/test de imunitate la impulsuri de ionizare nivel 4 conforming to IEC 61000-4-4<br>1.2/50 µs - 8/20 µs test de imunitate la supratensiuni nivel 3 conforming to IEC 61000-4-5<br>Test de imunitate la radiofrecvență condusă nivel 3 conforming to IEC 61000-4-6 |
| clasa de mediu (in timpul functionarii)                                 | Clasa 3C3 in conformitate cu IEC 60721-3-3-3<br>Class 3S3 according to IEC 60721-3-3                                                                                                                                                                                                                                                                                                                                                                        |
| acceleratia maxima in cazul unui impact de soc (in timpul functionarii) | 70 m/s² at 22 ms                                                                                                                                                                                                                                                                                                                                                                                                                                            |
| acceleratia maxima sub tensiune de vibratie (in timpul functionarii)    | 5 m/s² at 9...200 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| deformarea maxima sub sarcină vibratorie (in timpul functionarii)       | 1.5 mm at 2...9 Hz                                                                                                                                                                                                                                                                                                                                                                                                                                          |
| Permitted relative humidity (during operation)                          | Class 3K5 according to EN 60721-3                                                                                                                                                                                                                                                                                                                                                                                                                           |
| volumul aerului de racire                                               | 19,0 m3/h                                                                                                                                                                                                                                                                                                                                                                                                                                                   |
| tip de racire                                                           | Convectie fortata                                                                                                                                                                                                                                                                                                                                                                                                                                           |

|                                              |                                                                                     |
|----------------------------------------------|-------------------------------------------------------------------------------------|
| categorie de supratensiune                   | Class III                                                                           |
| bucla de reglare                             | Regulator PID reglabil                                                              |
| nivel de zgomot                              | 51,2 dB                                                                             |
| Grad de poluare                              | 2                                                                                   |
| Temperatura de transport a aerului ambiental | -40...70 °C                                                                         |
| temperatura ambientala de utilizare          | -15...50 °C fără declasare (pozitie verticala)<br>50...60 °C cu (pozitie verticala) |
| temperatura ambietala pentru depozitare      | -40...70 °C                                                                         |
| izolatie                                     | Intre alimentare si bornele de control                                              |

## Unitati de ambalare

|                                                      |           |
|------------------------------------------------------|-----------|
| Unitate de masura pentru prima forma de impachetare  | PCE       |
| Numar unitati in prima forma de impachetare          | 1         |
| Inaltime prima forma de impachetare                  | 11,000 cm |
| Latime prima forma de impachetare                    | 37,000 cm |
| Lungime prima forma de impachetare                   | 32,000 cm |
| Greutate prima forma de impachetare                  | 2,910 kg  |
| Unitate de masura pentru a doua forma de impachetare | P06       |
| Numar unitati in a doua forma de impachetare         | 12        |
| Inaltime a doua forma de impachetare                 | 75,000 cm |
| Latime a doua forma de impachetare                   | 60,000 cm |
| Lungime a doua forma de impachetare                  | 80,000 cm |
| Greutate a doua forma de impachetare                 | 47,920 kg |

## Garanție contractuală

|          |         |
|----------|---------|
| Garantie | 18 luni |
|----------|---------|

Environmental Data

Schneider Electric isi propune sa atinga nivelul Net Zero pana in 2050 prin parteneriate la nivelul lantului de aprovizionare, materiale cu impact mai redus si circularitate, prin campania „Use Better, Use Longer, Use Again” pentru a extinde durata de viata a produselor si reciclabilitatea.

Environmental Data explicate >

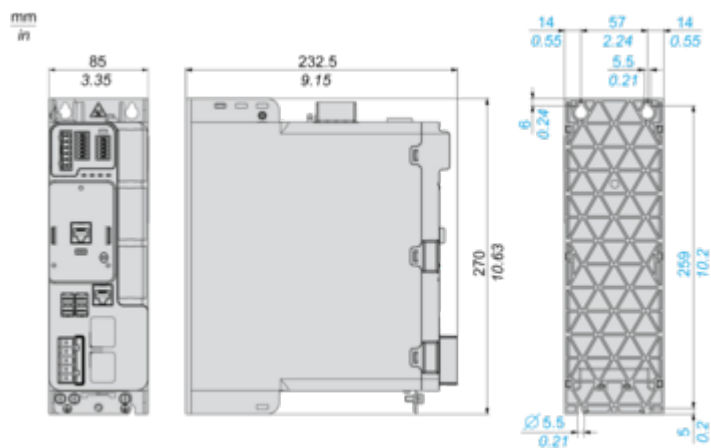
Cum evaluam sustenabilitatea produselor >

|                                        |                                                                                                                                                                                                                                            |
|----------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| 🌱 <b>Amprenta de mediu</b>             |                                                                                                                                                                                                                                            |
| Amprenta de carbon (kg CO2 eq.)        | 2670                                                                                                                                                                                                                                       |
| Raport de mediu                        | <a href="#">Profilul ambiental al produsului</a>                                                                                                                                                                                           |
| Use Better                             |                                                                                                                                                                                                                                            |
| 📦 <b>Materiale si ambalare</b>         |                                                                                                                                                                                                                                            |
| Pachet cu carton reciclabil            | Da                                                                                                                                                                                                                                         |
| Ambalaj fara plastic                   | Da                                                                                                                                                                                                                                         |
| <a href="#">Directiva RoHS UE</a>      | Conformitate proactiva (Produs in afara domeniului de aplicare a EU RoHS)                                                                                                                                                                  |
| Numar SCIP                             | 81d6792e-d307-4115-9475-2db3f34c93af                                                                                                                                                                                                       |
| Regulamentul REACH                     | <a href="#">Declaratia REACH</a>                                                                                                                                                                                                           |
| 💡 <b>Eficienta energetica</b>          |                                                                                                                                                                                                                                            |
| Contributiila produs a fost evitata    | Yes                                                                                                                                                                                                                                        |
| Use Again                              |                                                                                                                                                                                                                                            |
| 🔄 <b>Reambalare si refabricare</b>     |                                                                                                                                                                                                                                            |
| Profil circularitate                   | <a href="#">Informatii privind sfarsitul duratei de viata</a>                                                                                                                                                                              |
| Preluare la sfarsitul duratei de viata | No                                                                                                                                                                                                                                         |
| DEEE                                   |  Produsul trebuie sa fie eliminat de pe piata din Uniunea Europeana dupa colectarea specifica a deseurilor si sa nu ajunga niciodata in pubele de gunoi |

**ATV340U30N4E**

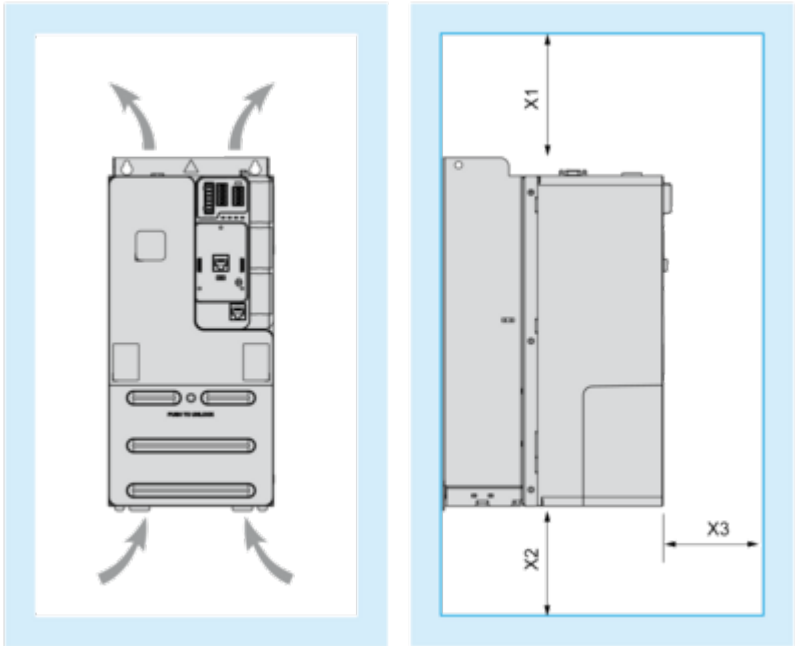
## Dimensions

**Views: Front - Left - Rear**



Mounting and Clearance

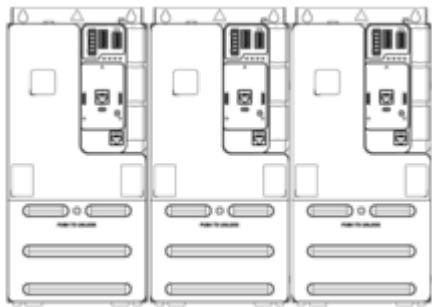
Clearance



| X1    | X2     | X3    |        |      |        |
|-------|--------|-------|--------|------|--------|
| mm    | in.    | mm    | in.    | mm   | in.    |
| ≥ 100 | ≥ 3.94 | ≥ 100 | ≥ 3.94 | ≥ 60 | ≥ 2.36 |

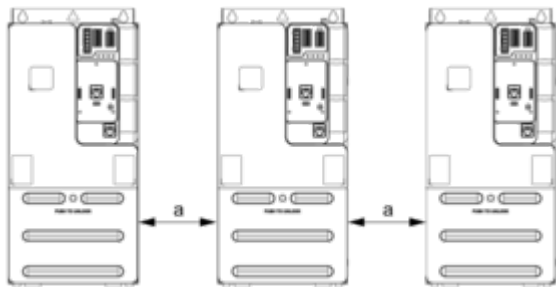
Mounting Types

Mounting Type A: Side by Side IP20



Possible, at ambient temperature  $\leq 50\text{ }^{\circ}\text{C}$  (122  $^{\circ}\text{F}$ )

Mounting Type B: Individual IP20

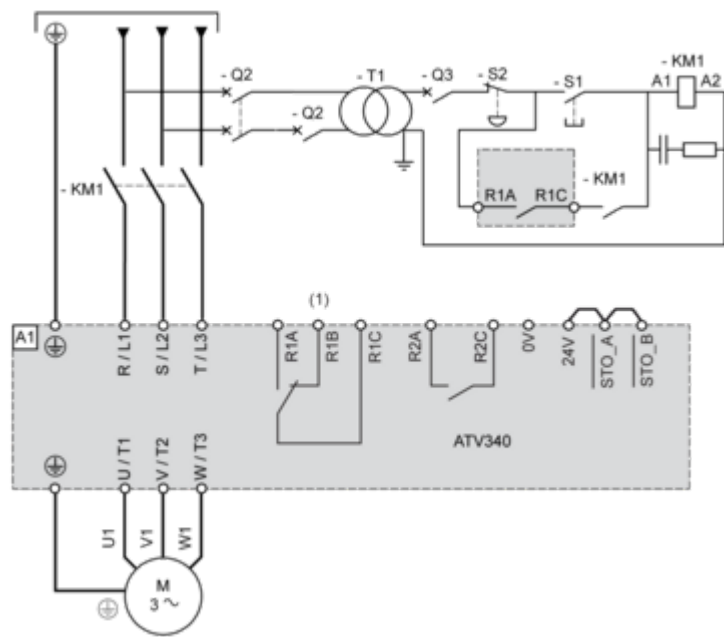


$a \geq 50\text{ mm}$  (1.97 in.) from 50...60 $^{\circ}\text{C}$ , no restriction below 50 $^{\circ}\text{C}$

Connections and Schema

Connections and Schema

Three-phase Power Supply - Diagram With Line Contactor

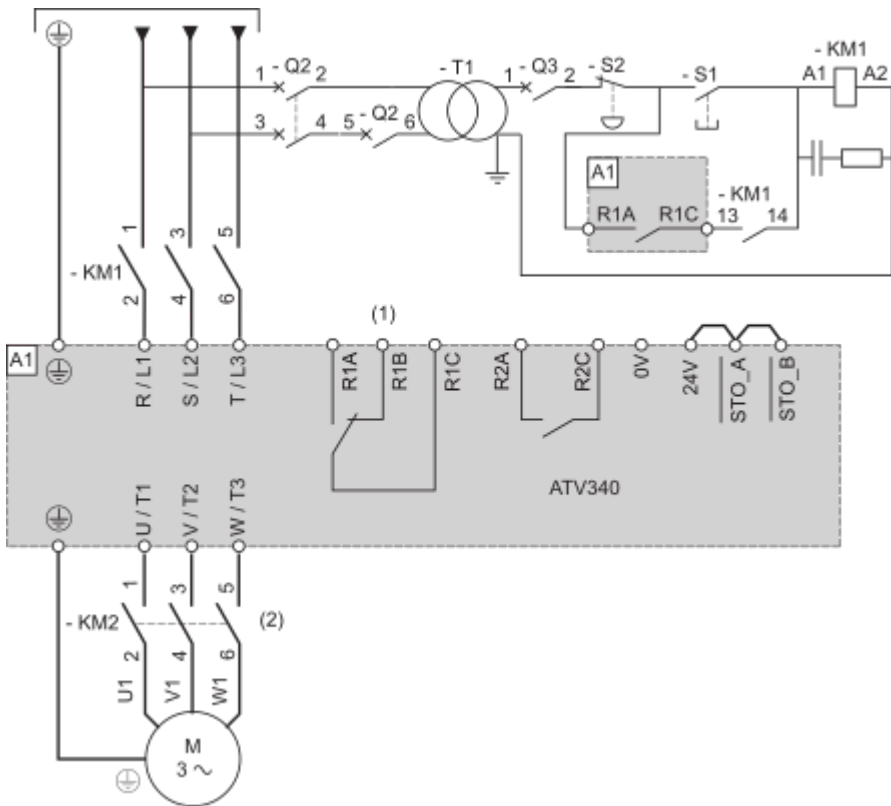


(1) : Use relay output R1 set to operating state Fault to switch Off the product once an error is detected.

NOTE :

- Press S1 until the initialization of the drive is finished.
- An external 24V power supply can be connected so that the control part of the drive is always power supplied.

Three-phase Power Supply - Diagram With Downstream Contactor



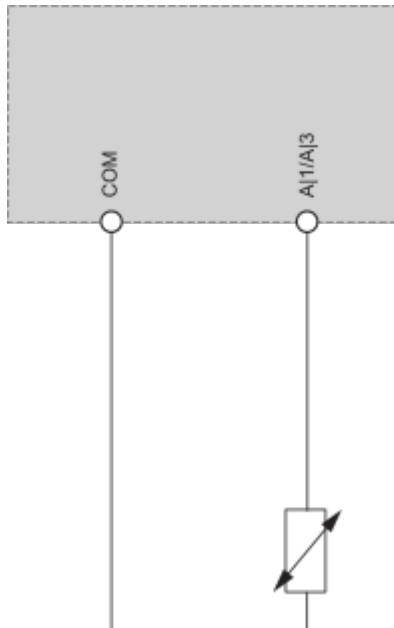
(1) : Use relay output R1 set to operating state Fault to switch Off the product once an error is detected.

(2) : Command of KM2 can be done by using the **[Output contactor cmd]** OCC function. For more information, refer to the programming manual.

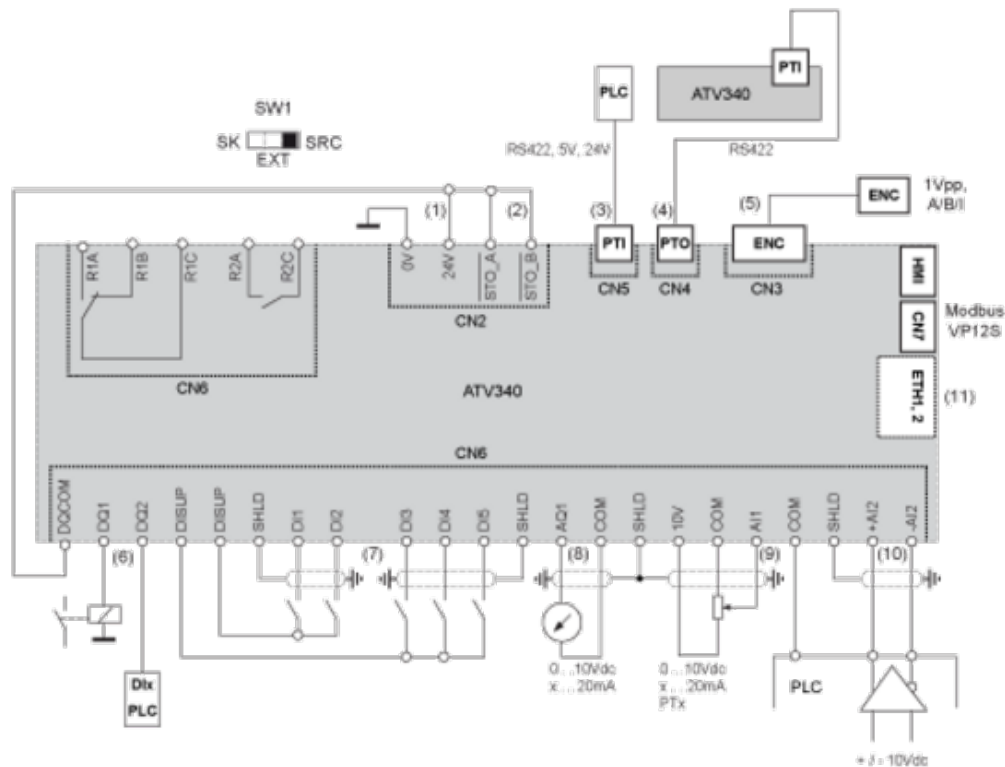
**NOTE :**

- Close upstream contactor, then press S1 after the initialization of the drive is finished.
- An external 24V power supply can be connected so that the control part of the drive is always power supplied.

**Sensor Connection**



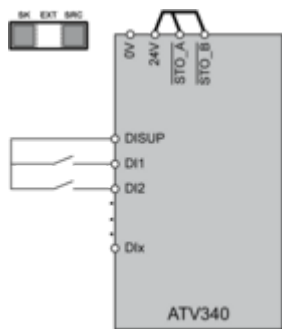
Control Block Wiring Diagram



- (1) : 24V In, Out, maximum supply current 200 mA is provided,
- (2) : STO - Safe Torque Off, see ATV340 Embedded safety function manual NVE64143
- (3) : PTI - Pulse Train In, from external source (eg.PLC) Pulse - Direction or A-B signals can be connected
- (4) : PTO - Pulse Train Out, can be used to connect to a 2nd ATV340 PTI
- (5) : To connect a motor position feedback encoder
- (6) : Digital output, e.g. to connect a contactor, also usable as DI
- (7) : Digital inputs
- (8) : Analog output, e.g. to connect a meter
- (9) : Analog input, e.g. from potentiometer
- (10) : Differential analog input, e.g. as speed reference from external PLC differential, +/- 10 V
- (11) : 2 advanced Ethernet ports ETH1, ETH2 (ATV340.....E) or 2 Sercos III ports S3P1, S3P2 (ATV340.....S)

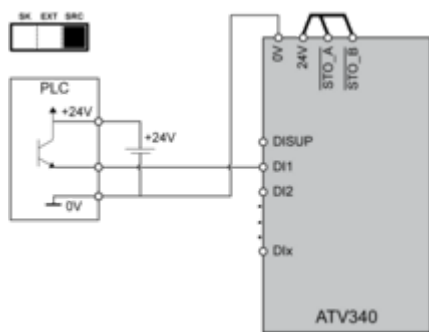
Digital Inputs Wiring

Digital Inputs: Internal Supply  
Using DISUP Signal

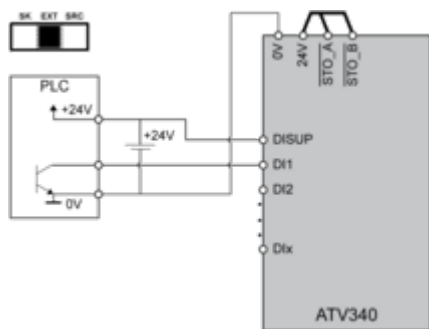


In SRC position DISUP outputs 24 V. In SK position DISUP is connected to 0 V.

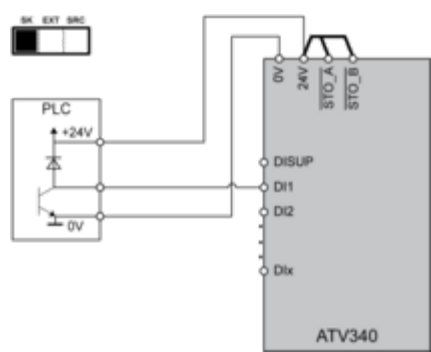
Digital Inputs: External Supply  
Positive Logic, Source, European Style



Negative Logic, Sink, Asian Style



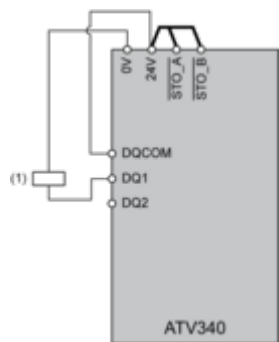
Digital Inputs: Internal supply  
Negative Logic, Sink, Asian Style



Digital Outputs Wiring

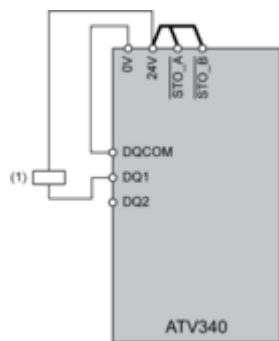
Digital Outputs: Internal Supply

Positive Logic, Source, European Style, DQCOM to +24V



(1) Relay or valve

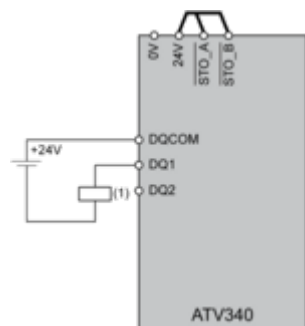
Negative Logic, Sink, Asian Style, DQCOM to 0V



(1) Relay or valve

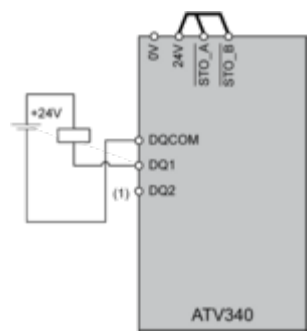
Digital Outputs: External Supply

Positive Logic, Source, European Style, DQCOM to +24V



(1) Relay or valve

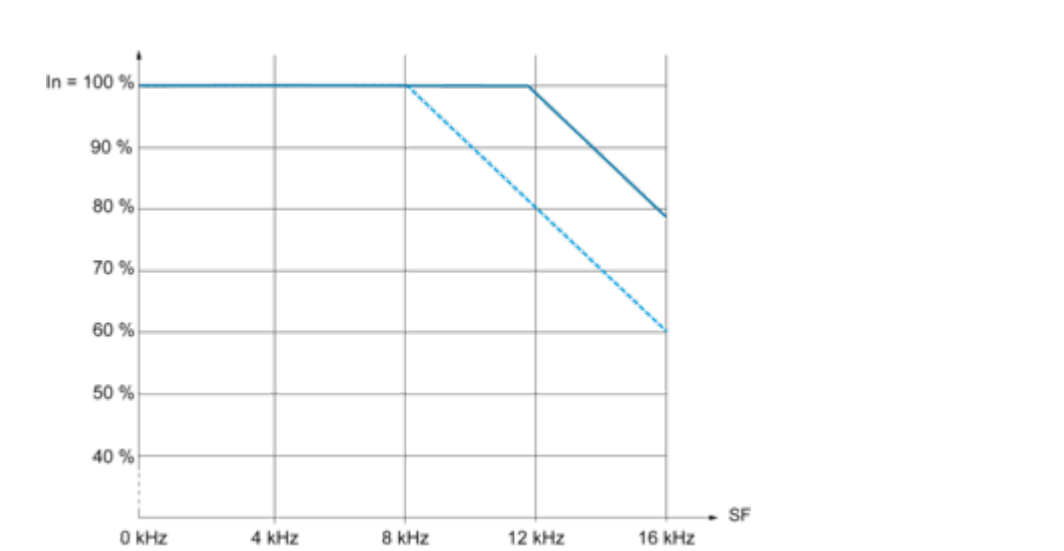
Negative Logic, Sink, Asian Style, DQCOM to 0V



(1) Relay or valve

Performance Curves

Derating Curves



— 40 °C (104 °F) - Mounting type A and B  
- - - 50 °C (122 °F) - Mounting type A and B  
**In** : Nominal Drive Current  
**SF** : Switching Frequency

Technical Illustration

Dimensions

