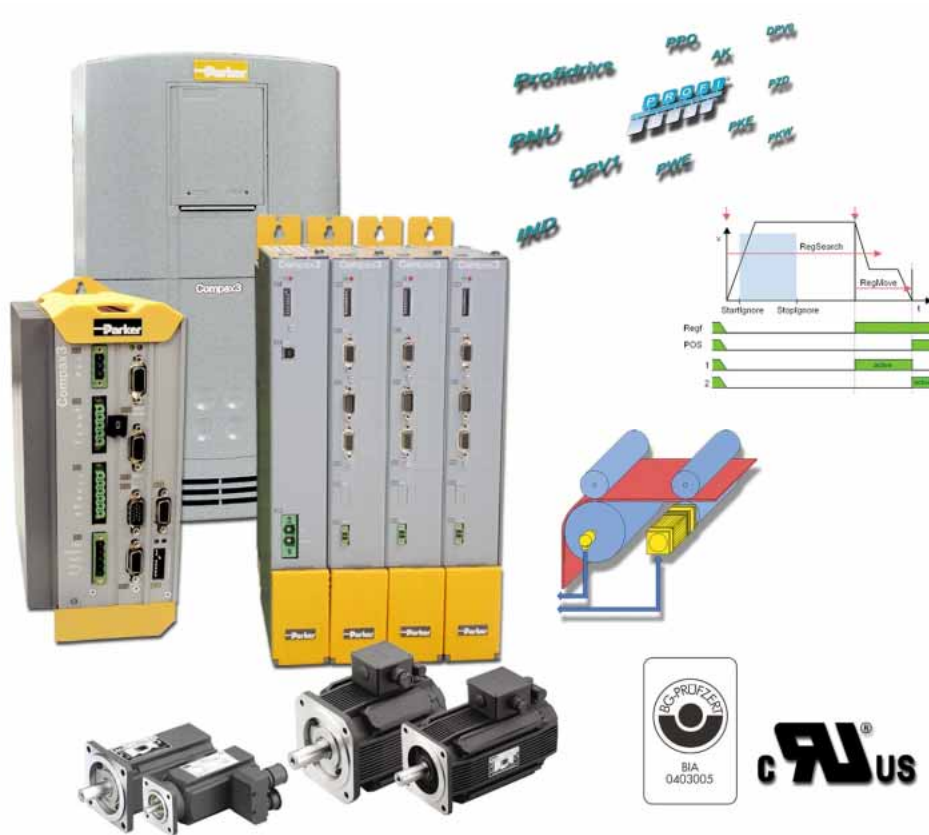


Operating instructions Compax3 I20T11

Positioning via Profibus



192-120103 N12 C3I20T11

June 2008

Release R08-0

1.6.2. Conditions of utilization for UL certification Compax3S

UL certification for Compax3S

conform to UL:	◆ according to UL508C
Certified	◆ E-File_No.: E235 342

The UL certification is documented by a "UL" logo on the device (type specification plate).

"UL" logo



Conditions of utilization

- ◆ The devices are only to be installed in a degree of contamination 2 environment (maximum).
- ◆ The devices must be appropriately protected (e.g. by a switching cabinet).
- ◆ The X2 terminals are not suitable for field wiring.
- ◆ Tightening torque of the field wiring terminals (green Phoenix plugs)

◆ C3S0xxV2	0.57 - 0.79Nm	5 - 7Lb.in
◆ C3S1xxV2, C3S0xxV4, C3S150V4	0.57 - 0.79Nm	5 - 7Lb.in
◆ C3S300V4	1.25 - 1.7Nm	11 - 15Lb.in
- ◆ Temperature rating of field installed conductors shall be at least 60°C Use copper lines only
Please use the cables described in the **accessories chapter** (see page 349, see page 351), they do have a temperature rating of at least 60°C.
- ◆ Maximum ambient temperature: 45°C.
- ◆ Suitable for use on a circuit capable of delivering not more than 5000 rms symmetrical amperes and 480 volts maximum.



ATTENTION

Danger of electric shock.

Discharge time of the bus capacitor is 5 minutes.

- ◆ The drive provides internal motor overload protection.
This must be set so that 200% of the motor nominal current are not exceeded.
- ◆ Cable cross-sections
 - ◆ Mains input: corresponding to the recommended fuses.
 - ◆ **Motor cable:** (see page 368) corresponding to the **nominal output currents** (see page 403, see page 402)
 - ◆ Maximum cross-section limited by the terminals mm² / AWG

◆ C3S0xxV2	2.5mm ²	AWG 12
◆ C3S1xxV2, C3S0xxV4, C3S150V4	4.0mm ²	AWG 10
◆ C3S300V4	6.0mm ²	AWG 7
- ◆ Fuses
In addition to the main fuse, the devices must be equipped with a S 201 K or S 203 K fuse made by ABB.
 - ◆ C3S025V2: ABB, nominal 480V 10A, 6kA
 - ◆ C3S063V2: ABB, nominal 480V, 16A, 6kA
 - ◆ C3S100V2: ABB, nominal 480V, 16A, 6kA
 - ◆ C3S150V2: ABB, nominal 480V, 20A, 6kA
 - ◆ C3S015V4: ABB, nominal 480V, 6A, 6kA
 - ◆ C3S038V4: ABB, nominal 480V, 10A, 6kA
 - ◆ C3S075V4: ABB, nominal 480V, 16A, 6kA
 - ◆ C3S150V4: ABB, nominal 480V, 20A, 6kA
 - ◆ C3S300V4: ABB, nominal 480V, 25A, 6kA

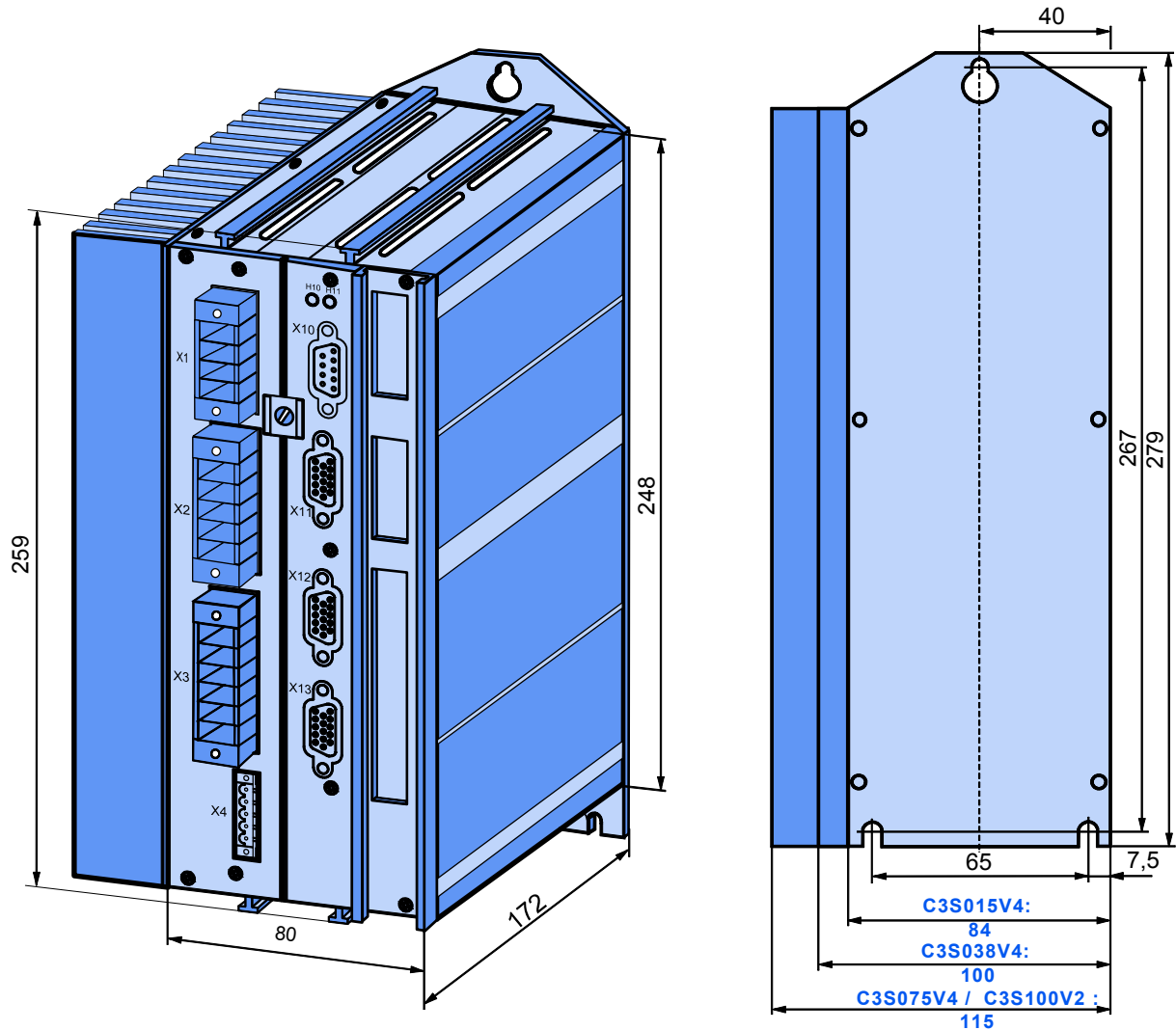
Please respect an appropriate mounting gap in order to ensure sufficient convection:

- ◆ At the side: 15mm
- ◆ At the top and below: at least 100mm

3.9.1.2 Mounting and dimensions Compax3S100V2 and S0xxV4

Mounting:

3 socket head screws M5



Please respect an appropriate mounting gap in order to ensure sufficient convection:

- ◆ At the side: 15mm
- ◆ At the top and below: at least 100mm

Order code for motor cables²

for SMH / MH56 / MH70 / MH105 ⁽³⁾	(1.5mm ² ; up to 13.8A)		MOK	5	5	/	...	...	⁽¹⁾
for SMH / MH56 / MH70 / MH105 ⁽³⁾	(1.5mm ² ; up to 13.8A)	(cable chain compatible)	MOK	5	4	/	...	...	⁽¹⁾
for SMH / MH56 / MH70 / MH105 ⁽³⁾	(2.5mm ² ; up to 18.9A)		MOK	5	6	/	...	...	⁽¹⁾
for SMH / MH56 / MH70 / MH105 ⁽³⁾	(2.5mm ² ; up to 18.9A)	(cable chain compatible)	MOK	5	7	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(1.5mm ² ; up to 13.8A)		MOK	6	0	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(1.5mm ² ; up to 13.8A)	(cable chain compatible)	MOK	6	3	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(2.5mm ² ; up to 18.9A)		MOK	5	9	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(2.5mm ² ; up to 18.9A)	(cable chain compatible)	MOK	6	4	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(6mm ² ; up to 32.3A)	(cable chain compatible)	MOK	6	1	/	...	...	⁽¹⁾
for MH145 / MH205 ⁽⁴⁾	(10mm ² ; up to 47.3A)	(cable chain compatible)	MOK	6	2	/	...	...	⁽¹⁾

^(x) **Note on the cable** (see page 354)

Order Code braking resistors

for C3S063V2 or C3S075V4	56Ω / 0.18kW _{cont}		BRM	0	5	/	0	1	
for C3S075V4	56Ω / 0.57kW _{cont}		BRM	0	5	/	0	2	
for C3S025V2 or C3S038V4	100Ω / 60W _{cont}		BRM	0	8	/	0	1	
for C3S150V4	47Ω / 0.57kW _{cont}		BRM	1	0	/	0	1	
for C3S150V2, C3S300V4 and C3MP20D6	4/01:15Ω / 0.57kW _{cont} 4/02:15Ω / 0.74kW _{cont}		BRM	0	4	/	0	...	
for C3S300V4 and C3MP20D6	4/03:15Ω / 1.5kW _{cont}								
for C3S100V2	22Ω / 0.45kW _{cont}		BRM	0	9	/	0	1	
for C3H0xxV4	27Ω / 3.5kW _{cont}		BRM	1	1	/	0	1	
for C3MP10D6 and with C3MP20D6 (2x30Ω parallel)	30Ω / 0.5kW _{cont}		BRM	1	3	/	0	1	
for C3MP10D6, (2x15Ω in series) CeMP20D6	15Ω / 0.5kW _{cont}		BRM	1	4	/	0	1	
for C3H1xxV4	18Ω / 4.5kW _{cont}		BRM	1	2	/	0	1	

Order code mains filter Compax3S

for C3S025V2 or S063V2			NFI	0	1	/	0	1	
for C3S0xxV4, S150V4 or S1xxV2			NFI	0	1	/	0	2	
for C3S300V4			NFI	0	1	/	0	3	

Order code mains filter Compax3H

for C3H050V4			NFI	0	2	/	0	1	
for C3H090V4			NFI	0	2	/	0	2	
for C3H1xxV4			NFI	0	2	/	0	3	

Order code mains filter Compax3MP

for C3MP10	Reference axis combination 3x480V 25A 6x10m motor cable length		NFI	0	3	/	0	1	
for C3MP10	Reference axis combination 3x480V 25A 6x50m motor cable length		NFI	0	3	/	0	2	
for C3MP20	Reference axis combination 3x480V 50A 6x50m motor cable length		NFI	0	3	/	0	3	