

| CSA: For installations according to the Canadian National Standard C22.2 No. 274-13 |
|---|
| overvoltage category III. |

- The function of the drive converter is dependent on its parameterization.

| RT Input voltage Max. fuse size | | | | | | | |
|---------------------------------|---|--|---|--|--|--|--|
| Input v | voltage | Max. fu | ise size | | | | |
| IEC | UL | IEC | UL | | | | |
| | | gL/gG | "J" | | | | |
| | | 50A | 60A | | | | |
| | | 63A | 80A | | | | |
| | | 80A | 100A | | | | |
| AC 3ph 400 V | AC 3ph 480 V | 200A | 200A | | | | |
| | | 250A | 250A | | | | |
| | | 315A | 300A | | | | |
| | | 400A | 400A | | | | |
| ont End module (AIC) | | gR/aR | - | | | | |
| | | 25A | - | | | | |
| | AC 3ph 480 V | 80A | - | | | | |
| AC 3ph 400 V | | 125A | - | | | | |
| | | 250A | - | | | | |
| | | 350A | - | | | | |
| module | | gL/gG | - | | | | |
| AC 3ph 400 V | AC 3ph 480 V | 10A | - | | | | |
| | IEC AC 3ph 400 V nodule (AIC) AC 3ph 400 V module | AC 3ph 400 V AC 3ph 480 V nodule (AIC) AC 3ph 400 V AC 3ph 480 V module | IEC UL IEC gL/gG 50A 63A SOA 63A 80A AC 3ph 400 V AC 3ph 480 V 200A AC 3ph 400 V AC 3ph 480 V 250A Module (AIC) gR/aR 25A AC 3ph 400 V AC 3ph 480 V 125A AC 3ph 400 V AC 3ph 480 V 125A Module (AIC) gR/aR 250A AC 3ph 400 V AC 3ph 480 V 125A Module 350A 350A Module gL/gG 350A | | | | |

| fuse and Mains | 4: | Mains choke (option) | 7: | rectifier module |
|----------------|----|-------------------------|----|----------------------|
| for 24V | 5: | Braking resistor | 8: | DC connection module |
| option) | 6: | 24V power supply module | 9: | Motor 3-phase |
| | | | | |



| 1: | contactor | | LCL filter | 9: | Axis module |
|----|----------------------------------|----|-------------------------------|-----|------------------|
| 2: | Fuses for charging module | 6: | 24V power supply mod- ule | 10: | Motor 3-phase |
| 3: | Fuses for 24V | 7: | charging module | 11: | Braking resistor |
| 4: | Contactor with auxiliary contact | 8: | Active Front End module (AIC) | | |

| No. from Table 2 | Terminal strip(s) | | | | | | |
|-----------------------|-------------------|-------------------|----------|-----|-------------------|-------|-----|
| Housing | X1A | X1B | X1C | X1D | X1E/F | X2A-D | PE |
| 24V power supply mo | odule | | | | | | |
| H6 B/P | SK4 | KS1 ¹⁾ | BS1 | BS2 | _ | PK1 | KS2 |
| rectifier module | | | | | | | |
| H6 C/S | SK6 | SK5 | BS1 | BS2 | _ | PK1 | KS3 |
| H6 G/W | KB5 | KB5 | BS1 | BS2 | _ | PK1 | KB5 |
| charging module | | | | | | | |
| H6 B/P | SK4 | SK5 | BS1 | BS2 | PK2 | PK1 | KB3 |
| Active Front End mo | dule (AIC) | | | | | | |
| H6 C/S | SK4 | SK3 | BS1 | BS2 | - | PK1 | KS2 |
| H6 E/U | SK7 | _ | BS1 | BS2 | _ | PK1 | KB4 |
| H6 G/W | KB5 | _ | BS1 | BS2 | _ | PK1 | KB4 |
| Axis module | | | | | | | |
| H6 B/P | SK4 | SK3 | BS1 | BS2 | _ | PK1 | KS2 |
| H6 C/S | SK4/SK6 | SK3 | BS1 | BS2 | _ | PK1 | KS2 |
| H6 E/U | SK7 | SK3 | BS1 | BS2 | _ | PK1 | KB4 |
| H6 G/W | KB5 | SK3 | BS1 | BS2 | _ | PK1 | KB4 |
| DC connection modu | le | | | | | | |
| H6 B/P | SK8 | KS1 ¹⁾ | BS1 | BS2 | KS1 ¹⁾ | _ | KB3 |
| DC clamp | | | | | | | |
| _ | KS4 | _ | _ | BS2 | _ | _ | - |
| Table 1: Assignment o | f terminals | to termin | al numbe | rs | | | |

¹⁾ Optional equipment variant

WIRING

| | | Permissible of | Tightening torque | | |
|---------------------|------------------------------|--|--------------------------------------|--------|---------|
| No. from Table 1 | Mounting type | mm ² with wire end ferrule | AWG with- out wire end ferrule | Nm | lb inch |
| PK1 | Push-in clamp | 0,141,5 ¹⁾ | - | - | - |
| PK2 | Push-in clamp | 0,22,5 | 2412 | - | - |
| SK3 | Screw clamp | 0,251,5 | 2816 | 0,25 | 2,2 |
| SK4 | Screw clamp | 0,26 | 2410 | 0,7 | 6,2 |
| SK5 | Screw clamp | 0,516 | 204 | 2 | 18 |
| SK6 | Screw clamp | 1025 | 102 | 4 | 36 |
| SK7 | Screw clamp | 3595 | 40 | 15 | 132 |
| SK8 | Screw clamp | 1050 | 61/0 | 6 | 53 |
| KS1 | M3 Screw for cable lug | - | - | 1,4 | 12 |
| KS2 | M4 Screw for cable lug | - | - | 1,3 | 11,5 |
| KS3 | M5 Screw for cable lug | - | - | 2 | 18 |
| KS4 | M6 Screw for cable lug | - | - | 5 | 44 |
| BS1 | M3 screw for 24V bypass | - | - | 0,5 | 4,5 |
| BS2 | M4 screw for DC bypass | - | - | 3 | 26 |
| KB1 | M5 Bolt for cable lug | - | - | 2 | 18 |
| KB2 | M6 Bolt for cable lug | - | - | 5 | 44 |
| KB3 | M8 Bolt for cable lug | - | - | 4,5 | 40 |
| KB4 | M8 Bolt for cable lug | - | - | 12 | 106 |
| KB5 | M10 Bolt for cable lug | - | - | 25 | 220 |
| Table 2: A | ssignment of terminal number | r to cross-section | and tightening | torque | |

Cable cross-sections and fuses must be dimensioned according to the design of the machine manufacturer. Specified minimum / maximum values may not be fallen below / exceeded.

1) Malfunctions caused by loose cable connections and to short wireend ferrules!

▶ Use wire-end ferrules according to table 3 Wire-end ferrules and stripping length.

Strip cable according to table 3 Wire-end ferrules and stripping length.



| RING | | | |
|--|--|---------------------|------------------|
| Cross-section | Wire-end ferrule | Metal sleeve length | Stripping length |
| 0,50 mm ² | | 10 mm | 12 mm |
| 0,75 mm ² | with plastic collars | 12mm | 14 mm |
| 1,00 mm ² | | 12 mm | 15 mm |
| 1,50 mm ² | without plastic collars (DIN 46228-1) | 10 mm | 10 mm |
| 0,141,5 mm ² single- or finewire | without wire-end ferrule | - | 1015 mm |



| HOUSING DIMENSIONS | Dime |
|-------------------------|---------|
| HOUSING P | HOUSING |
| Housing P air heat sink | Housing |
| | |

Weight: 17 kg

Weight: 5,5 kg

Dimensions in mm

HOUSING U

Housing U air heat sink

Dimensions in mm

COMBIVERT H6

QUICK START GUIDE

Translation of the original manual H6 Series Housing B-W Document 20162227 ENG 01 Mat.No. 00H6N1M-0000







Automation with Drive

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manual of the corresponding housing size.