**Mains connection**

Power range: 2.2 - 37 kW  
Voltage: 3-phase, 380 to 480 V, ±10%  
Frequency: 48 to 63 Hz  
Power Factor: 0.98

**Motor connection**

Voltage: 3-phase, from 0 to U_supply  
Frequency: 0 to 250 Hz

Continuous loading capability (constant torque at a max. ambient temperature of 40°C): Rated output current $I_{2N}$.

Overload capacity (at a max. ambient temp. of 40°C):  
- at constant torque $1.5 \times I_{2N}$, for 1 minute every 10 minutes  
- at constant torque $1.25 \times I_{2N}$, for 2 minutes every 10 minutes

Characteristic data for short-time, intermittent and periodic load cycles are available on request.

**Protection limits**

Overvoltage:  
- Running V DC: 842 (corr. to 595 V input)  
- Start inhibit V DC: 661 (corr. to 380 - 415 V input)  
- 765 (corr. to 440 - 480 V input)

Undervoltage:  
- Running V DC: 333 (corr. to 247 V input)  
- Start inhibit V DC: 346 (corr. to 380 - 415 V input)  
- 505 (corr. to 440 - 480 V input)

**Environmental limits**

Ambient temperatures:  
- Output current $= I_{2}$, f_switch = 4 kHz: 0 to 40°C  
- Output current $= 0.9 \times I_{2}$, f_switch = 4 kHz: 40 to 50°C  
- Output current $= 0.8 \times I_{2}$, f_switch = 8 kHz: 0 to 40°C

Altitude:  
- Output current $= I_{2}$: 0 to 1000 m  
- Output current reduced by 1% per 100 m over 1000 m to 2000 m

Relative humidity: lower than 95% (without condensation)

**Protection class:** IP 21 or IP 54

**Paint colour:** NCS 1502-Y, RAL 9002, PMS 420 C

**Contamination levels:** no conductive dust, corrosive liquids or gases (IEC 721-3-3).

**Product compliance**

- Low Voltage Directive 73/23/EEC with supplements  
- EMC Directive 89/336/EEC with supplements  
- Quality assurance system ISO 9001 and ISO 14001  
- CE, UL, ULc and C-Tick approvals

**Options**

- Control panel ACS-PAN-A  
- Control panel ACS 100 - PAN  
- Extension cable 3 m with IP 65 Kit for control panels PEC-98-0008  
- DriveWindow Light 2  
- DDCS adapter for fieldbus modules  
- ACS400 Extended Output Option Module  
- Fieldbus modules  
- Embedded fieldbus protocols (Modbus, N2)  
- EMC input filters are required only in 1st Environment  
- Braking units and choppers  
- Input and output chokes  
- Flange mounting kits for IP 21 units