G Type Code and Model Designation

The Type Code Label is attached to the right side of the unit cover, on the heat sink.

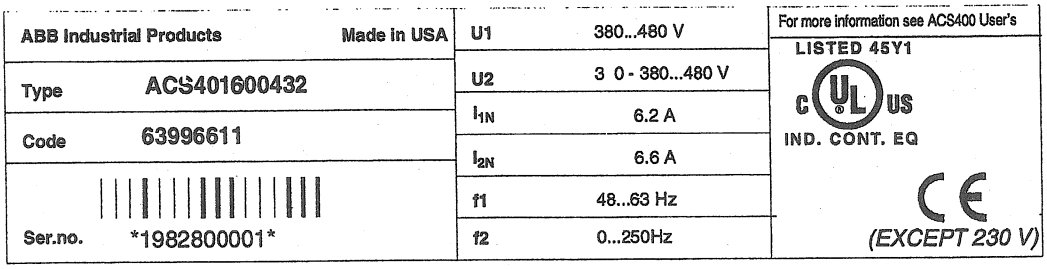

Figure 12 ACS 400 type designation label.

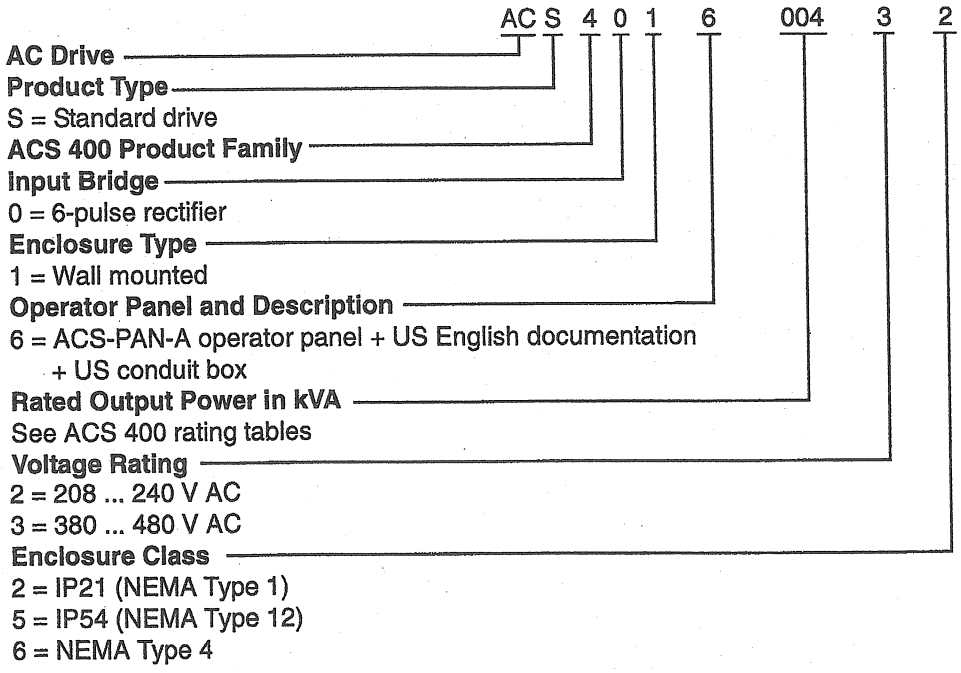

Figure 13 Type code key.

A Serial number label is attached on upper part of the chokeplate between mounting holes.

Type	ACS401600432		
Code	63996611	Ser.no.	*1982800001*

Figure 14 Serial number label.

T Specifications

Notes for the following tables are on page 23.

200 V Series										
3~Input 208 - 240V +/- 10% 50/60Hz	ACS401x	0004x	0005x	0006x	0009x	0011x	0016x	0020x	0030x	0041x
Frame Size	Unit	R1		R2		R3		R4		
Nominal Ratings (See G & M)										
Nominal motor P_N Normal Duty	kW Hp	2.2 3	4 5	5.5 7.5	7.5 10	11 15	15 20	18.5 25	22 30	30 40
Input Current I_{1N} 3~	A	10.0	15.7	22.7	29.0	43.4	55.8	70.3	82.7	107.2
Output Current I_{2N}	A	10.6	16.7	24.2	30.8	46.2	59.4	74.8	88	114
Max. Output Current I_{2Nmax}	A	11.7	18.4	26.6	33.9	50.8	65.3	82.3	96.8	125.4
Nominal motor P_N Heavy Duty	kW Hp	1.5 2	2.2 3	4 5	5.5 7.5	7.5 10	11 15	15 20	18.5 25	22 30
Input current I_{1NHD} 3~	A	7.1	10.0	15.7	22.8	29.0	43.6	56.0	70.5	83.0
Output Current I_{2NHD}	A	7.5	10.6	16.7	24.2	30.8	46.2	59.4	74.8	88
Max. Output current $I_{2NHDmax}$	A	11.3	15.9	25.1	36.3	46.2	69.3	89.1	112.2	132.0
Output Voltage U_2	V	0 - U_1								
Switching Frequency	kHz	4 (standard) 8 (Low Noise)**								
Protection Limits										
Overcurrent (peak)	A	31.4	44.3	69.8	101.2	128.7	142.3	196.0	279.8	367.8
Overvoltage: Running Start Inhibit	 VDC VDC	 421 VDC (1.3*U_{DC} Nominal @ 240 VAC input) 1.18 * U_{DC} Nominal @ 240 VAC								
Undervoltage: Running Start Inhibit	 VDC VDC	 182 VDC (0.65 * U_{DC} Nominal @ 208 VAC Input) 0.85 * U_{DC} Nominal @ 208 VAC								
Overtemperature	°C / °F	95° C / 203° F (Heat Sink)								
Max. Wire Sizes and Screw Torque of Connectors										
Power Terminals	mm^2 / Nm / lb/in.	10, AWG6 (Stranded) / Torque 1.3 - 1.5 Nm / 11 - 13 lb/in.		10, AWG6 (Stranded) / Torque 1.3 - 1.5 Nm / 13 - 16 lb/in.		35, AWG2 (Stranded) / Torque 3.2 - 3.7 Nm / 28 - 32 lb/in.		35, AWG2 (Stranded) / Torque 3.2 - 3.7 Nm / 28 - 32 lb/in.		
Control Terminals	mm^2	0.5 - 1.5 (AWG22...AWG16) / Torque 0.4 Nm								
Line Fuse 3~	A	16	25	25	35	50	80	80	100	125
Bussmann Type		KTK-15	KTK-25	KTK-25	KTK-35	JJS-50	JJS-80	JJS-80	JJS-100	JJS-125
Power Losses										
Power Circuit	W	60	88	160	220	300	440	600	740	880
Control Circuit	W	6	6	6	6	6	6	6	6	6

* Power stages are designed for the continuous I_{2NND} current. These values are valid when the altitude is less than 3300 ft (1000 m) ASL. See S.

** Low noise setting programmable with optional control panel.
For ambient operating temperature 0...40°C, derate P_N and I_2 to 80%.

*** Follow local rules for cable size; see J. Shielded motor cable is recommended.

**** Fuse type: UL class CC or T (Bussman Type KTK or JJS).
Use 60°C rated power cable (75°C if T_{amb} above 45°C).

***** Maximum cable lengths listed are based on capacitive coupling between motor wires and from motor wires to ground. It may also be necessary to consider motor insulation requirements related to drive output dv/dt.

U Product Conformity

The ACS 400 complies with North American standard UL508C.

The ACS 400 (400V Series) complies with European requirements:

- Low Voltage Directive 73/23/EEC with amendments
- EMC Directive 89/336/EEC with amendments

Corresponding declarations and a list of main standards are available on request.

Note! See ACS 400 EMC Instructions.

An adjustable frequency drive and a Complete Drive Module (CDM) or a Basic Drive Module (BDM), as defined in IEC 61800-2, is not considered as a safety related device mentioned in the Machinery Directive and related harmonized standards. The CDM/BDM/adjustable frequency drive can be considered as a part of safety device if the specific function of the CDM/BDM/adjustable frequency drive fulfills the requirements of the particular safety standard. The specific function of the CDM/BDM/adjustable frequency drive and the related safety standard is mentioned in documentation of the equipment.