

In order to preserve this enclosure rating, it is important to maintain the environmental integrity of the enclosure. The installer must provide correct Type 1 closures for all unused clearance/knockout holes within the drive glandbox.

Additionally, in order to preserve the "Type 1 Enclosure" rating for 620 Type 7 models, the installer must ensure that the blanking plates are fitted to the ventilation apertures provided within the glandbox.

## Environmental Requirements

The environmental limits for the 620 Vector series controllers are shown in Table 1-18.

Humidity (max.)	85% relative humidity (non-condensing) at 40°C
Altitude	Above 1000m derate power by 1% per 100m up to a maximum 5000m
Atmosphere	Non flammable, non corrosive and dust free (Pollution Degree 2)
Operating temperature range	0°C to 50°C 0°C to 40°C UL Type 1 option fitted
Storage temperature	Minimum -25°C to maximum +55°C
Transport temperature	Minimum -25°C to maximum +70°C
Enclosure	IP20 (direct conduit connection and UL Type 1 options)
Climatic Conditions	Class 3k3 as defined by EN50178 (1998)
Pollution Degree	2
Installation / Overvoltage Category	3

Table 1-18 620 Series environmental requirements

## Product Code

All 620 units are fully identified using an eleven block alphanumeric code, as shown in figure 1-2. This code details the drive calibration and settings on despatch from the factory. The product code appears as the "Model No." on the rating label at the side of the unit.

Example Code	620STD	/0750	/400	/0010	/UK	/ENW	/0000	/000	/B1	/000	/000
Block Number	1	2	3	4	5	6	7	8	9	10	11

Figure 1-2 Product code blocks

Details of each block of the product code are given in Table 1-19.

Block No.	Variable	Description
1	620STD 620COM 620L 620ADV	620 Vector Standard 620 Vector Communications 620 Vector Link 620 Advance Drive (not available for new designs)
2	0007 0011 0015 0022 0040 0055 0075 0110 0150 0180 0220 0300 0370 0450 0550 0750	Four numbers specifying the power rating in kW 0.75 kW 1.1 kW 1.5 kW 2.2 kW 4.0 kW 5.5 kW 7.5 kW 11 kW 15 kW 18 kW 22 kW 30 kW 37 kW 45 kW (380-460V only) 55 kW (380-460V only) 75 kW (380-460V only)

# 1-12 Product Overview

Block No.	Variable	Description
3	230 400	Three numbers specifying the nominal input voltage rating 208 to 240V ( $\pm 10\%$ ) 50/60Hz 380 to 460V ( $\pm 10\%$ ) 50/60Hz
4	00xx 01xx-99xx  xx1x xx2x  xx3x xx5x xx6x  xxx0	Four digits specifying the mechanical package including livery and mechanical package style  First two digits: Livery Standard Eurotherm Drives livery Defined customer liveries  Third digit: Mechanical packaging style Standard (IP20), protected panel mounting IP20 and falling dirt protection (UL Type1) with glandplate cable entry Enclosed (IP20), through panel mounting IP20 with falling dirt protection only IP20 with glandcable entry only Note: Option 3 applies to type 7 power ratings only.  Fourth digit: Operator Station Standard product (always 0) - Built in MMI
5	UK US	Two characters specifying the user interface language These characters are the same as used for computer keyboard specifications: English 50Hz default English 60Hz default
6	ENW	Three characters specifying any feedback option installed over and above the standard features of the product, e.g. Encoder (Wire-ended)
7	0000 N/A	Four characters specifying the communications protocol and its hardware implementation method No communications options fitted Indicates the particular communications option
8	000 N/A	Three characters specifying any optional loaded software No software options loaded Indicates the particular software option
9	00 B0  B1	Two characters specifying the braking option Brake power switch not fitted Brake power switch fitted - no braking resistors supplied Brake power switch fitted and default value braking resistors supplied <b>(recommended)</b> Note: Extra braking resistors can be specified and ordered separately
10	000 TBA	Three characters specifying the aux supply required No aux supply option fitted Code for the filtering option installed
11	000 nnn	3 digits specifying engineering special options: No special options Code for the special engineering option installed

Table 1-19 - Product Code Block Descriptions

## Example Code:

620STD/0750/400/0010/UK/ENW/0000/000/B1/000/000

This code indicates a drive, which is:

- a 620 Standard product
- 75kW power rating
- 380-460v input supply
- Eurotherm Drives livery
- Enclosed mechanical package (IP20)
- No additional optional operator station
- UK language
- Wire-ended 15V encoder option
- No optional communications
- No optional loaded software
- Brake switch fitted with default value resistors supplied
- No aux supply option fitted
- No special options.