

# INSTALLING THE INVERTER

**IMPORTANT:** Read Chapter 12: "Certification for the Inverter" before installing this unit.

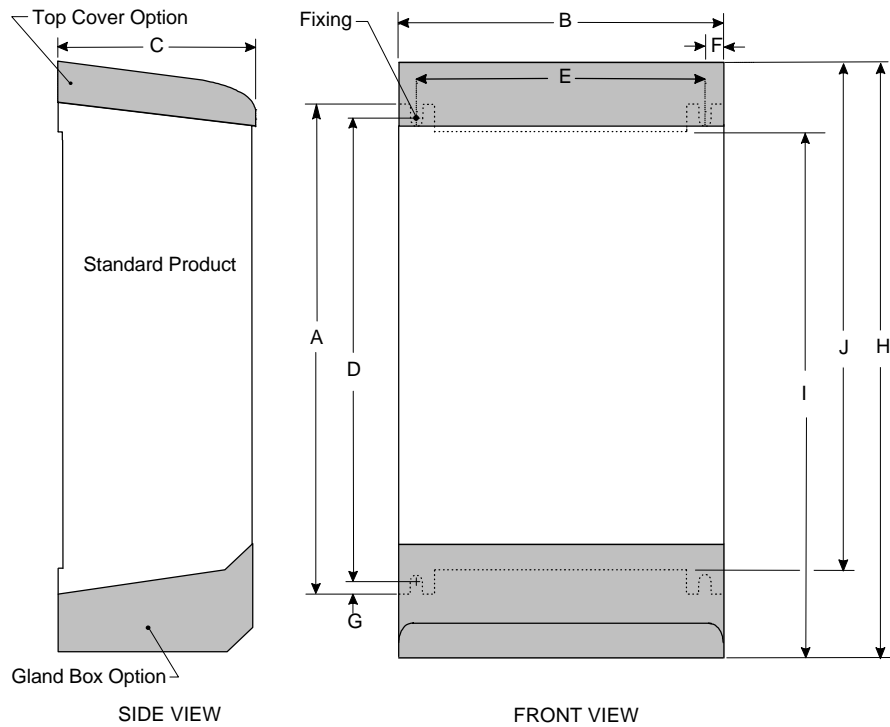
## Mechanical Installation

### Mounting the Inverter

General installation details are given below for mounting the 584SV Inverter, however, if you are installing the unit with an EMC filter refer to "External AC Supply EMC Filter", page 3-20 for appropriate mounting details.

The unit must be mounted vertically on a solid, flat, vertical surface. It is mounted using bolts or screws into four fixing points (keyholes and slots).

It can be wall-mounted or mounted inside a suitable cubicle, depending upon the required level of EMC compliance (refer to Chapter 11: "Technical Specifications") and the available options the unit was supplied with.



**Figure 3-1 Mounting Arrangements**

584SV Type	Outside Dimensions (mm)			Fixing Centres (mm)				Fixing Size (mm)	Overall Height (mm)		
									Both options fitted	Only Gland Box fitted	Only Top Cover fitted
	A	B	C	D	E	F	G		H	I	J
4	318	228	157	300	200	14	9	M6	385	345	330
5	468	228	157	450	200	14	9	M6	535	495	480
6	672	234	298	650	200	17	11	M8	775	725	600
7	838	398	336	800	370	14	19	M10	1125	1000	965

\* Full mechanical details of Type 7 including through panel mounting is provided on the fold-out drawing at the end of this Chapter. Further details are also available from Eurotherm Drives Product Engineering department.

## 3-2 Installing the Inverter

### Requirements for Wall-Mount or Cubicle-Mount

The following table defines how the unit may be mounted. This depends on the fitting of the top cover and gland box options, and the type of 584SV.

584SV Type	Top Cover option fitted	Gland Box option fitted	Mounting
4, 5 or 6	-	-	Cubicle
4, 5 or 6	✓	-	Cubicle
4, 5 or 6	-	✓	Cubicle
4, 5 or 6	✓	✓	Wall-mount
7	-	-	Cubicle
7	✓	-	Cubicle
7	-	✓	Cubicle
7	✓	✓	Wall-mount
7 (thru-panel only)	Options not applicable, see fold-out drawing at the end of the Chapter		Cubicle only

## Minimum Air Clearances

### Ventilation

The Inverter gives off heat in normal operation and must therefore be mounted to allow the free flow of air through the air entries and exits. Maintain minimum clearances as given in the tables below to ensure that heat generated by other adjacent equipment is not transmitted to the 584SV Inverter, be aware that other equipment may have its own clearance requirements. When mounting two or more 584SV's together, these clearances are cumulative.

Ensure that the mounting surface is normally cool.

### Air Clearance: Cubicle-Mount Product/Application

(Europe: IP2x, USA/Canada: Open Type)

The 584SV Inverter without a top cover, without a gland box, or with neither options fitted, **must** be mounted in a suitable cubicle. The clearances shown below are for the standard product, i.e. no options fitted, however if you have one or both options fitted refer to Figure 3-3 for their relevant air clearances.

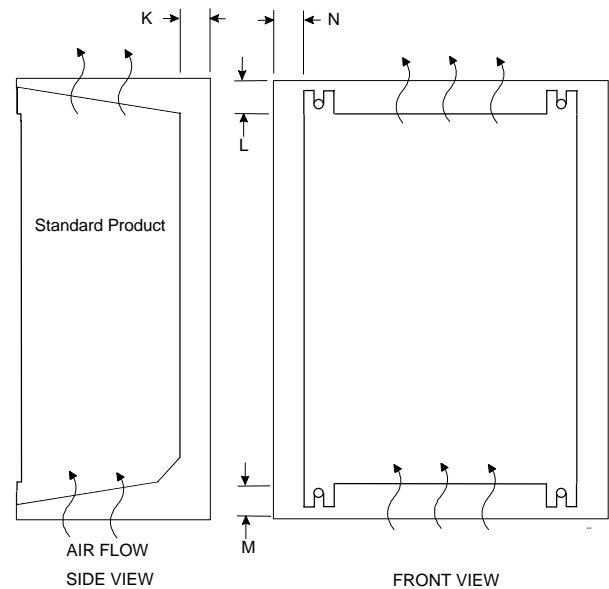


Figure 3-2 Air Clearance for a Cubicle-Mount Product/Application

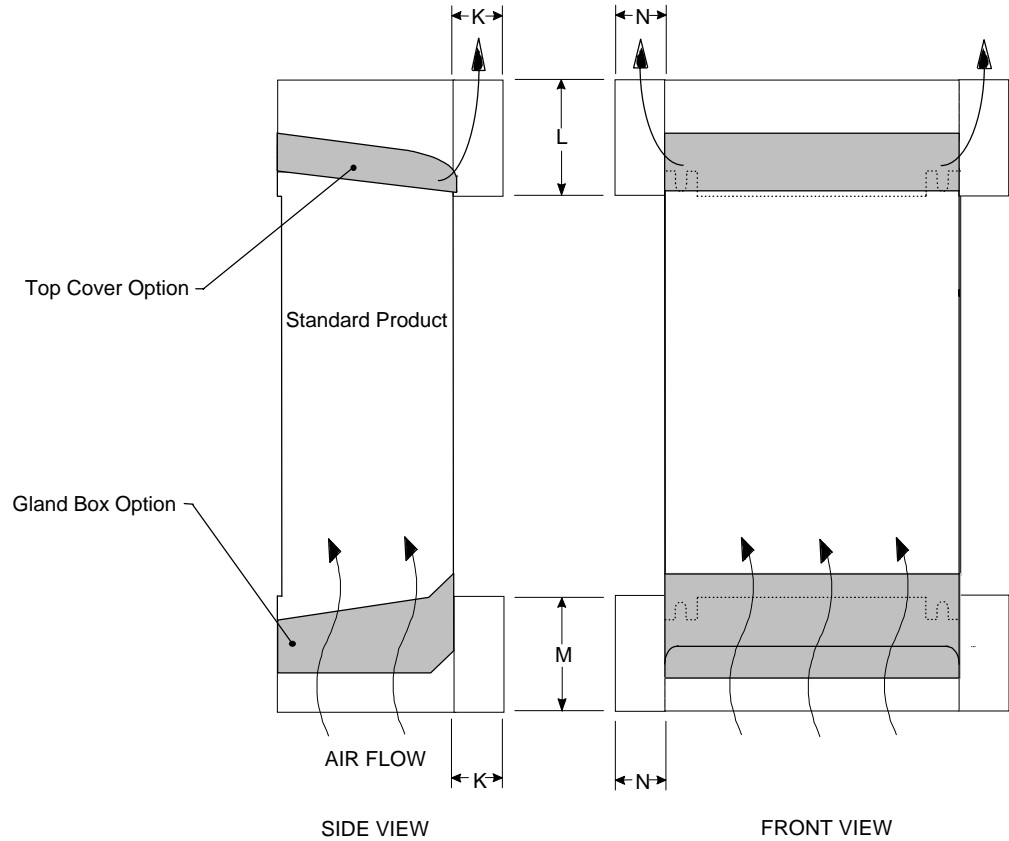
584SV Type	Clearances for Standard Product with no options fitted (mm)			
	K	L	M	N
4	10	90	90	10
5	10	90	90	10
6	20	110	110	40
7	20	250	250	50

## Air Clearance: Wall-Mount Product/Application

(Europe: IP2x plus IP4x surface protection, USA/Canada: Type 1)

If the gland box and/or top cover is fitted, then additional air clearance is required around the unit's air inlet and outlet (as applicable).

- The 584SV Inverter is **only** a Type 1 product when **both** the gland box and top cover are correctly fitted. It is then suitable for wall-mounting.
- Fitting the top cover or gland box improves that **surface** of the 584SV Inverter from IP2x to IP4x, i.e. fitting the top cover means that the top surface of 584SV is now to IP4x.



**Figure 3-3 Air Clearance for a Wall-Mount Product/Application**

584SV Type	K	L	M	N
Standard product with Top Cover fitted (mm)				
4	10	120	90	40
5	10	120	90	40
6	20	120	110	40
7 *	20	300	250	120
Standard product with Gland Box fitted (mm)				
4	10	90	90	10
5	10	90	90	10
6	20	110	120	40
7	20	250	300	120
Standard product with Top Cover and Gland Box fitted (mm)				
4	10	120	90	40
5	10	120	90	40
6	20	120	110	40
7	20	300	300	120
* For details of the Through Panel Mounting 584SV Type 7 with hood, refer to the fold-out drawing at the end of this Chapter.				