

# **Standard Power Integrated Module**



flow90PACK1

## Features:

flow90PACK 1 up to 600V/75A, 1200V/35A

- 3 ~ IGBT inverter
- Temperature Sensor
- Vincotech power flow through for simple PCB routing
- Vincotech Clip In the reliable interconnection between PCB, module and heatsink 
  600V trench fieldstop
- 1,2kV trench Fieldstop

Dedicated for motor drive applications with a mechanic arrangement of 90° between heat-sink and PCB

## **Module Types**

selection data:	Vincotech part number
600V Trench-Fieldstop	
600V / 30A	V23990-P704-F
600V / 50A	V23990-P705-F
600V / 75A	V23990-P706-F
1200V Trench-Fieldstop	
1200V / 15A	V23990-P708-F
1200V / 25A	V23990-P709-F
1200V / 35A	V23990-P700-F



## V23990-P70X-A

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## Schematics





V23990-P70X-A

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# Handling Instruction

## Handling Instructions...

### ... to the PCB

- The module must be fixed to the PCB by clipping into the adequate holes before pin soldering. See below
- After fixing all pins must be soldered into the PCB.
- During assembly, at a max. module temperature of 25°C, the pins should not be drawn or pushed more than ±0.2 mm or loaded with a higher force than 35N.
- At a maximum substrate-temperature of 100°C the load of the pin should not exceed ±5N.
- Vibration stress on pins is not allowed

### ...to the heat sink

- the heat sink surface must be clean and particle less.
- the flatness must be < 0.05 mm for 100 mm continuous.
- the surface roughness should be less than  $R_z = 0.01$  mm.

### ...to the thermal paste

- homogenous applying of the thermal conducting paste over the whole module plate with a thickness of max. 0.05 mm.
- Thicker thermal paste can raise the value of the R<sub>th</sub>.

# ...to the fastening screws to the heat sink if plain washer is used and optional with a spring lock washer

Important parameter	
screw	M4 DIN 7985
flat washer	DIN 125 or DIN 433
spring washer	DIN 127 or DIN 128
mounting torque	M <sub>a</sub> =2.0-2.2Nm