

## Product Overview

### LB11685AV: Motor Driver, 3-Phase, Sensor Less

For complete documentation, see the data sheet.

The LB11685AV is a three-phase full-wave current-linear-drive motor driver IC. It adopts a sensor less control system without the use of a Hall Effect device. For quieter operation, the LB11685AV features a current soft switching circuit and be optimal for driving the cooling fan motors used in refrigerators, etc.

#### Features

- Three-phase full-wave linear drive (Hall sensor-less method )
- Built-in three-phase output voltage control circuit
- Built-in current limiter circuit
- Built-in motor lock protection circuit
- Motor lock protection detection output
- FG output made by back EMF
- Built-in thermal shut down circuit
- Beat lock prevention circuit
- Sensor-less
- Soft-Booting

For more features, see the data sheet

#### Benefits

- Hall sensor less
- Easy control
- Current limit protection
- Lock protection
- protection detection
- Easy control
- Thermal protection
- Beat lock prevention
- Easy Manufacturing
- Stability at booting

#### Applications

- Consumer

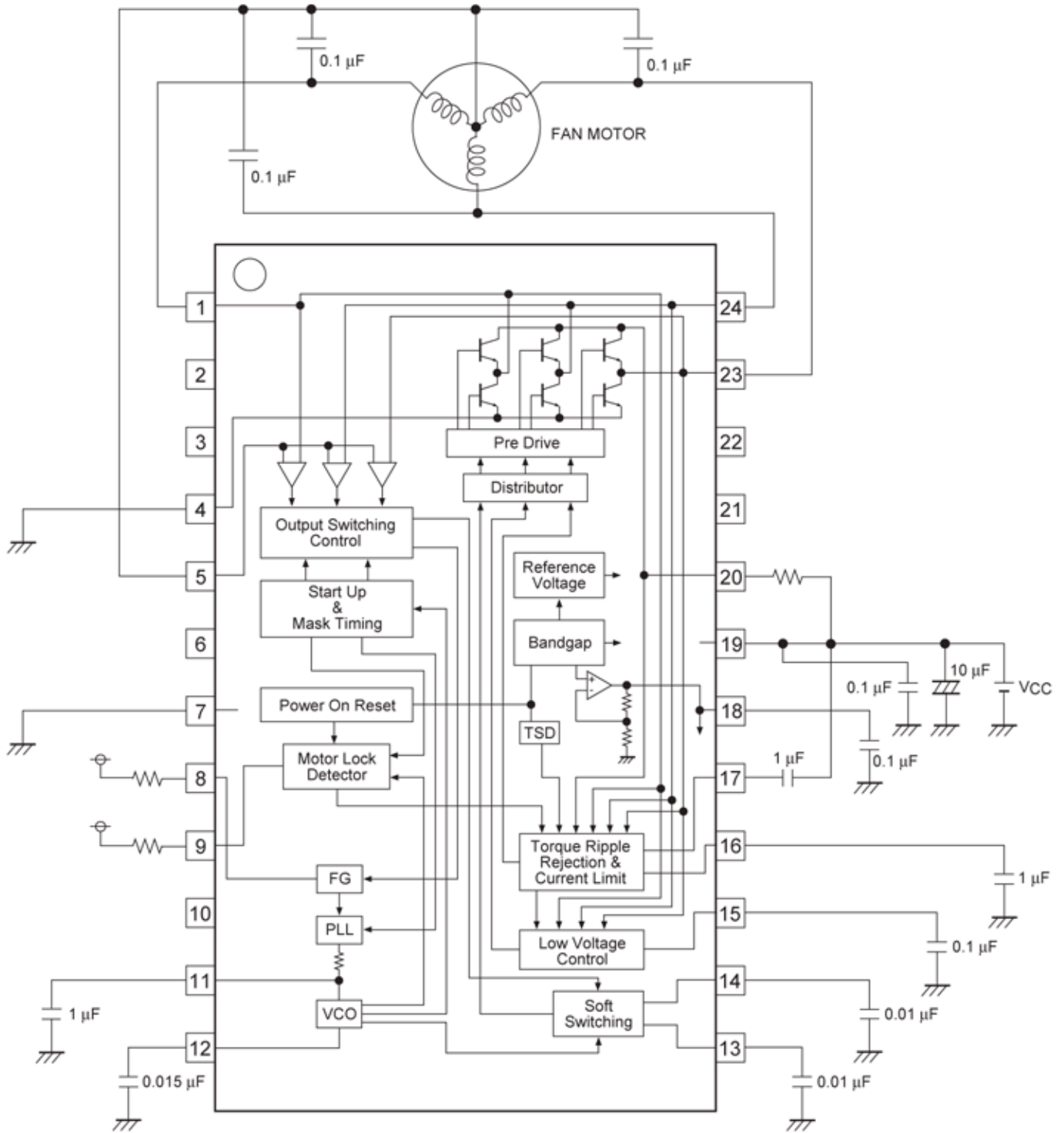
#### End Products

- Refrigerator

### Part Electrical Specifications

Product	Compliance	Status	Phase	V <sub>M</sub> Min (V)	V <sub>M</sub> Max (V)	V <sub>CC</sub> Min (V)	V <sub>CC</sub> Max (V)	I <sub>O</sub> Max (A)	I <sub>O</sub> Peak Max (A)	Control Type	Package Type
LB11685AV-TLM-H	Pb-free	Active	3	4.5	18	4.5	18		1.2	DC	SSOP-24J
	Halide free										
LB11685AV-W-AH	Pb-free	Active	3	4.5	18	4.5	18		1.2	DC	SSOP-24J
	Halide free										

# Application Diagram



For more information please contact your local sales support at [www.onsemi.com](http://www.onsemi.com).

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