Power Standards Laboratory
www.PowerSide.com
1320 Harbor Bay Pkwy Suite 110
Alameda, CA 94502 USA
TEL ++1-510-522-4400
FAX ++1-510-522-4455

SEMI F47-0706

(Reapproved 0812)

Voltage Sag Immunity Compliance Certificate

Adjustable Frequency Drive
Model: VLT® HVAC Drive series FC-102, FC-202
VLT® Refrigeration Drive Series FC-103

(See Annex 1 for more detailed model description)

Description: Adjustable Frequency Drive
Manufacturer Name: Danfoss Drives A/S
Manufacturer Address: Design Center EU, Ulsnaes 1, DK 6300 Graasten, Denmark
Test Date and Location: 21 March 2017, same as above
Tested configuration: Normal operation and motor load connection

Pass/Fail criteria: Tool Halting process without automatic recovery. Based on the test report DANF-023A, the manufacturer declares that the hardware and firmware design of Series FC-102 & FC-202 has not been changed, as tested, and stated in Report DANF-023A. Similarly, the hardware of the FC-103 Series is identical to FC-102 & FC-202, with the only difference being a different software version.

Certification: Power Standards Laboratory certifies that the above tool meets the Mandatory requirements of SEMI F47-0706 for voltage sag immunity when tested according to the procedures set forth in IEC 61000-4-34. An IPC Voltage Sag Generator was used for the testing that fully complies with IEC 61000-4-34.



Adjustable Frequency Drive
(representative sample)

Power Standards Lab PSL SEMI F47

Andreas Eberhard 10 August 2026
Power Standards Lab

The certificate expires 3 months after the issuance date

ANNEX 1

Description of the VLT® HVAC Drive FC 102, FC 202 Series

Type		IP20	IP21	IP55/66	Mains Supply [Vac]	Power [kW]
FC202	k25	X		X	200-240	0.25
FC202	k37	X		X	200-240/380-480	0.37
FC202	k55	X		X	200-240/380-480	0.55
FC202	k75	X		X	200-240/380-480	0.75
FC102/202	1k1	X		X	200-240/380-480/525-600/525-690	1.1
FC102/202	1k5	X		X	200-240/380-480/525-600/525-690	1.5
FC102/202	2k2	X		X	200-240/380-480/525-600/525-690	2.2
FC102/202	3k0	X		X	200-240/380-480/525-600/525-690	3
FC102/202	3k7	X		X	200-240	3.7
FC10/2022	4k0	X		X	380-480/525-600/525-690	4
FC102/202	5k5	X	X	X	200-240/380-480/525-600/525-690	5.5
FC102/202	7k5	X	X	X	200-240/380-480/525-600/525-690	7.5
FC102/202	11k	X	X	X	200-240/380-480/525-600/525-690	11
FC102/202	15k	X	X	X	200-240/380-480/525-600/525-690	15
FC102/202	18k	X	X	X	200-240/380-480/525-600/525-690	18.5
FC102/202	22k	X	X	X	200-240/380-480/525-600/525-690	22
FC102/202	30k	X	X	X	200-240/380-480/525-600/525-690	30
FC102/202	37k	X	X	X	200-240/380-480/525-600/525-690	37
FC102/202	45k	X	X	X	200-240/380-480/525-600/525-690	45
FC102/202	55k	X	X	X	380-480/525-600/525-690	55
FC102/202	75k	X	X	X	380-480/525-600/525-690	75
FC102/202	90k	X	X	X	380-480/525-600/525-690	90
FC102/202	75k	X	X	X	525-600	75

The certificate expires 3 months after the issuance date