



Power Standards Laboratory
www.Powerside.com
980 Atlantic Ave #100
Alameda, CA 94501 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 a 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 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.



**EUT: Adjustable Frequency Drive
(Representative model)**



Syedamehwish

Syeda Mehwish 17th August FC2023
Power Standards Lab
<http://www.Powerside.com>

The certificate expires 3 years 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
FC 102/202 75k	x	x	x	525-600	0.75