

Annex to the certificate No: EM-006-18

Product sample: NVSD 200KVA 480V 60HZ 6P IF SWF ICU UHL1

VSD-NOVOMET description: Variable Speed Drives (VSD) is a smart solution to easily adjust production parameters and outputs of the ESP system when downhole conditions change. VSD protects the system by sensing changing conditions that could potentially be harmful to the ESP. In order to control and optimize production operations, special alarms and user-set limits are programmed in the VSD.

No	Documentation and aspects of the assessment	Notes
1	Documentation	
1.1	Technical conditions TY 3416-002-12058737-2016	Documentation contains the information required by the Directive 2014/30/EU
1.2	User and Service Manuals CY.002 PЭ, 18.03.2016	Documentation contains the information required by the Directive 2014/30/EU
2	Testing	
2.1	Immunity to conducted disturbances, induced by radio – frequency field EN 61000-4-6:2014 10 V, 150 kHz- 80MHz	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.2	Immunity to surges EN 61000-4-5:2014 and EN 61000-4-5:2014/A1:2017 1 kV for Line to Line 2 kV for Line to Earth	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.3	Immunity to fast transients EN 61000-4-4:2012 1 kV for Line to Line 2 kV for Line to Earth	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.4	Immunity to ESD EN 61000-4 -2:2009 Air discharge \pm 8 kV Contact discharge \pm 4kV	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.5	Immunity to power frequency magnetic field 60 Hz, 30 A/m EN 61000-4-8:2010	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.6	Immunity to radiated radio-frequency EM field at 80 MHz to 1GHz , 10 V/m and 1,4 GHz to 2GHz , 10 V/m EN 61000-4-3:2006 EN 61000-4-3:2006/A1:2008 and EN 61000-4-3:2006/A2:2010	Tested equipment According to the requirements of immunity EN 61439-1:2011 Table J.3, criteria A.
2.7	Immunity to voltage dips, short interruptions EN 61000-4-11:2004 and EN 61000-4-11:2004/A1:2017	Tested equipment according to the requirements of immunity EN 61439-1:2011 Table J.3.

Tallinn, 26.01. 2018

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