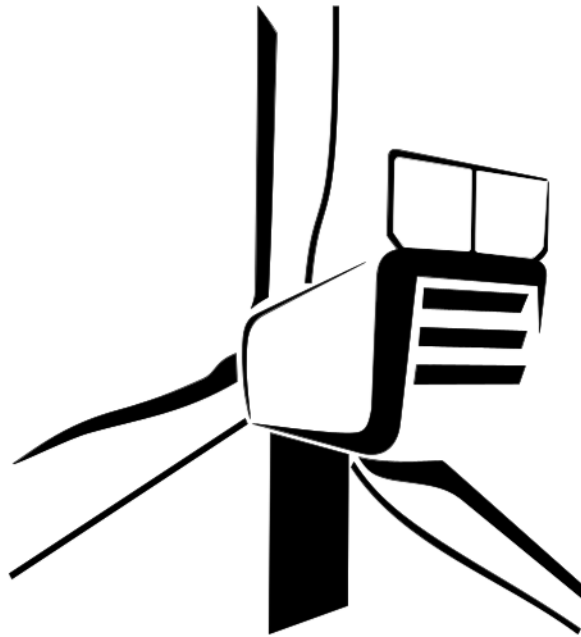
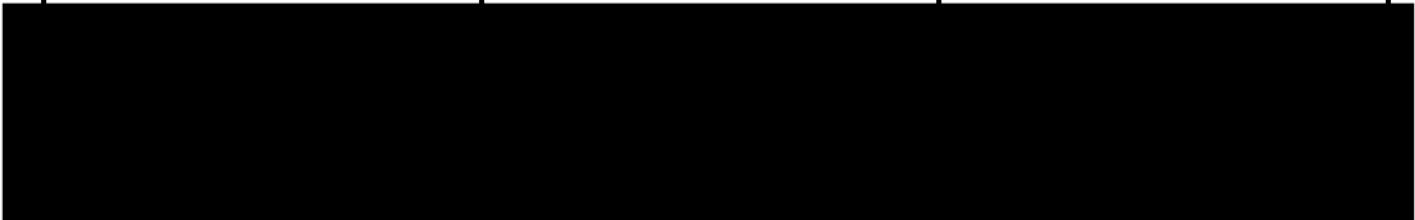


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Author	Reviewer	Approver
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Octave sound power levels / Oktav-Schallleistungspegel

Nordex N175/6.X

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Nordex N175/6.X – Overview operating modes / Übersicht Betriebsweisen

operating mode / Betriebsweise	rated power / Nennleistung [kW]	maximum sound power level over the complete operating range of the wind turbine		rotor speed / Rotornenn-drehzahl [rpm]	available towers per hub height		
		L _{WA} [dB(A)]	L _{WA} (STE) [dB(A)]		110 m	112 m	
					TS110-02	TS112-00	TS112-01
Mode A	7000	109.7	107.7	9.5	●	●	●
Mode 0	6800	108.9	106.9	9.4	●	●	●
Mode 1	6525	108.5	106.5	9.2	●	●	●
Mode 2	6220	108.0	106.0	9.0	●	●	●
Mode 3	6070	107.5	105.5	8.8	●	●	●
Mode 4	5940	107.0	105.0	8.6	●	●	●
Mode 5	5800	106.5	104.5	8.4	●	●	●
Mode 6	5670	106.0	104.0	8.2	○	○	○
Mode 7	5560	105.6	103.6	8.1	○	○	○
Mode 8	5030	103.4	101.4	7.3	○	○	○
Mode 9	4920	103.0	101.0	7.2	○	○	○
Mode 10	4820	102.5	100.5	7.0	●	●	●
Mode 11	4680	102.0	100.0	6.8	●	●	●
Mode 12	4460	101.5	99.5	6.7	●	●	●
Mode 13	4260	101.0	99.0	6.5	●	●	●
Mode 14	4050	100.5	98.5	6.4	●	●	●
Mode 15	3860	100.0	98.0	6.2	●	●	●
Mode 16	3670	99.4	97.4	6.1	●	●	●

- mode available / Betriebsweise verfügbar
- mode on request / Betriebsweise auf Anfrage
- mode not available / Betriebsweise nicht verfügbar

operating mode / Betriebsweise	rated power / Nennleistung [kW]	available towers per hub height						
		119 m	133 m	140 m	142 m		162 m	
		TS119-02	TS133-00	TS140-00	TS142-02	TS142-01	TCS162N-01	TS162-01
Mode A	7000	●	●	—	●	●	●	—
Mode 0	6800	●	●	●	●	●	●	●
Mode 1	6525	●	●	●	●	●	—	●
Mode 2	6220	●	●	●	●	—	—	●
Mode 3	6070	●	●	●	●	—	●	●
Mode 4	5940	●	●	●	●	—	●	●
Mode 5	5800	●	●	●	●	—	●	●
Mode 6	5670	○	○	○	○	—	○	○
Mode 7	5560	○	○	○	○	○	○	○
Mode 8	5030	○	○	○	○	○	○	○
Mode 9	4920	○	○	○	○	○	○	○
Mode 10	4820	●	●	●	●	●	●	●
Mode 11	4680	●	●	●	●	●	●	●
Mode 12	4460	●	●	●	●	●	●	●
Mode 13	4260	●	●	●	●	●	●	●
Mode 14	4050	●	●	●	●	●	●	●
Mode 15	3860	●	●	●	●	●	●	●
Mode 16	3670	●	●	●	●	●	●	●

- mode available / Betriebsweise verfügbar
- mode on request / Betriebsweise auf Anfrage
- mode not available / Betriebsweise nicht verfügbar

operating mode / Betriebsweise	rated power / Nennleistung [kW]	available towers per hub height		
		164 m	179 m	199 m
		TS164-00	TCS179N-00	TCS199N-00
Mode A	7000	●	●	●
Mode 0	6800	●	●	●
Mode 1	6525	●	●	●
Mode 2	6220	●	●	●
Mode 3	6070	–	●	●
Mode 4	5940	–	●	●
Mode 5	5800	–	●	●
Mode 6	5670	–	○	○
Mode 7	5560	○	○	○
Mode 8	5030	○	○	○
Mode 9	4920	○	○	○
Mode 10	4820	●	●	●
Mode 11	4680	●	●	●
Mode 12	4460	●	●	●
Mode 13	4260	●	●	●
Mode 14	4050	●	●	●
Mode 15	3860	●	●	●
Mode 16	3670	●	●	●

- mode available / Betriebsweise verfügbar
- mode on request / Betriebsweise auf Anfrage
- mode not available / Betriebsweise nicht verfügbar

Octave sound power levels / Oktav-Schallleistungspegel
Nordex N175/6.X with and without / mit und ohne serrated trailing edge

Basis / Grundlagen:

The expected octave sound power levels of the Nordex N175/6.X are to be determined on basis of aerodynamical calculations and expected sound power levels. These values are valid for 110 m, 112 m, 119 m, 133 m, 140 m, 142 m, 162 m, 164 m, 179 m and 199 m (see available towers on pg. 2).
 The expected octave sound power levels are only for information and will not be warranted.

Die erwarteten Oktav-Schallleistungspegel der Nordex N175/6.X werden auf der Basis aerodynamischer Berechnungen und der erwarteten Gesamt-Schallleistungspegel ermittelt. Diese Werte sind gültig für die Nabenhöhen 110 m, 112 m, 119 m, 133 m, 140 m, 142 m, 162 m, 164 m, 179 m und 199 m (siehe verfügbare Türme auf S. 2).
 Die erwarteten Oktav-Schallleistungspegel dienen nur der Information und werden nicht gewährleistet.

Abbreviations / Abkürzungen:

- v_s ... wind speed converted to reference conditions
 (hub height 10 m, roughness length 0.05 m) using a logarithmic profile /
 Windgeschwindigkeit bezogen auf Standardbedingungen in 10 m Höhe
 (logarithmisches Windprofil, Rauigkeitslänge 0,05 m)
- STE ... Serrated Trailing Edge / Serrations

Nordex N175/6.X without STE / ohne Serrations

octave sound power levels / Oktav-Schallleistungspegel in dB(A)									
operating mode / Betriebsweise	octave band mid frequency / Oktavband-Mittenfrequenz								Total
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Mode A	90.5	97.3	101.5	103.0	104.9	103.1	91.9	74.2	109.7
Mode 0	89.7	96.5	100.7	102.2	104.1	102.3	91.1	73.4	108.9
Mode 1	89.3	96.1	100.3	101.8	103.7	101.9	90.7	73.0	108.5
Mode 2	88.8	95.6	99.8	101.3	103.2	101.4	90.2	72.5	108.0
Mode 3	88.3	95.1	99.3	100.8	102.7	100.9	89.7	72.0	107.5
Mode 4	87.8	94.6	98.8	100.3	102.2	100.4	89.2	71.5	107.0
Mode 5	87.3	94.1	98.3	99.8	101.7	99.9	88.7	71.0	106.5
Mode 6	86.8	93.6	97.8	99.3	101.2	99.4	88.2	70.5	106.0
Mode 7	86.4	93.2	97.4	98.9	100.8	99.0	87.8	70.1	105.6
Mode 8	84.2	91.0	95.2	96.7	98.6	96.8	85.6	67.9	103.4
Mode 9	83.8	90.6	94.8	96.3	98.2	96.4	85.2	67.5	103.0
Mode 10	83.3	90.1	94.3	95.8	97.7	95.9	84.7	67.0	102.5
Mode 11	82.8	89.6	93.8	95.3	97.2	95.4	84.2	66.5	102.0
Mode 12	82.3	89.1	93.3	94.8	96.7	94.9	83.7	66.0	101.5
Mode 13	81.8	88.6	92.8	94.3	96.2	94.4	83.2	65.5	101.0
Mode 14	81.3	88.1	92.3	93.8	95.7	93.9	82.7	65.0	100.5
Mode 15	80.8	87.6	91.8	93.3	95.2	93.4	82.2	64.5	100.0
Mode 16	80.2	87.0	91.2	92.7	94.6	92.8	81.6	63.9	99.4

Nordex N175/6.X with STE / mit Serrations

octave sound power levels / Oktav-Schallleistungspegel in dB(A)									
operating mode / Betriebsweise	octave band mid frequency / Oktavband-Mittenfrequenz								Total
	63 Hz	125 Hz	250 Hz	500 Hz	1000 Hz	2000 Hz	4000 Hz	8000 Hz	
Mode A	90.0	96.8	100.0	99.7	101.2	101.8	97.3	82.7	107.7
Mode 0	89.7	96.5	99.9	100.4	101.3	99.2	89.9	73.4	106.9
Mode 1	89.3	96.1	99.5	100.0	100.9	98.8	89.5	73.0	106.5
Mode 2	88.8	95.6	99.0	99.5	100.4	98.3	89.0	72.5	106.0
Mode 3	88.3	95.1	98.5	99.0	99.9	97.8	88.5	72.0	105.5
Mode 4	87.8	94.6	98.0	98.5	99.4	97.3	88.0	71.5	105.0
Mode 5	87.3	94.1	97.5	98.0	98.9	96.8	87.5	71.0	104.5
Mode 6	86.8	93.6	97.0	97.5	98.4	96.3	87.0	70.5	104.0
Mode 7	86.4	93.2	96.6	97.1	98.0	95.9	86.6	70.1	103.6
Mode 8	84.2	91.0	94.4	94.9	95.8	93.7	84.4	67.9	101.4
Mode 9	83.8	90.6	94.0	94.5	95.4	93.3	84.0	67.5	101.0
Mode 10	83.3	90.1	93.5	94.0	94.9	92.8	83.5	67.0	100.5
Mode 11	82.8	89.6	93.0	93.5	94.4	92.3	83.0	66.5	100.0
Mode 12	82.3	89.1	92.5	93.0	93.9	91.8	82.5	66.0	99.5
Mode 13	81.8	88.6	92.0	92.5	93.4	91.3	82.0	65.5	99.0
Mode 14	81.3	88.1	91.5	92.0	92.9	90.8	81.5	65.0	98.5
Mode 15	80.8	87.6	91.0	91.5	92.4	90.3	81.0	64.5	98.0
Mode 16	80.2	87.0	90.4	90.9	91.8	89.7	80.4	63.9	97.4