



CERTIFICATION RECORD

The company named below has been authorized by CSA International to represent the products listed in this record as “CSA Certified” and to affix the CSA Mark to these products according to the terms and conditions of the CSA Service Agreement and applicable CSA program requirements (including additional Markings).

File No: 201248

Class No: 4228 01 MOTORS AND GENERATORS For Hazardous Locations

SUBMITTOR

4638696 Wolong Electric Nanyang Explosion
Protection Group Co., Ltd.
22 North Zhongjing Road
Nanyang City, Henan 473008
China

FACTORIES

4638696 Wolong Electric Nanyang Explosion
Protection Group Co., Ltd.
22 North Zhongjing Road
Nanyang City, Henan 473008
China

June 14, 2018 (Replaces: May 11, 2017)

Class I, Div. 1, Groups C and D; Class II, Div. 1, Groups E, F and G; Class III; Temp Coded T3C:

- Explosion-proof and dust ignition-proof squirrel cage induction motors, totally enclosed fan cooled (TEFC), Series NEX, NEMA Frame Sizes 143T through 449T; rated 600V ac max, 3 ph, 300 hp, max 2, 4, or 6 poles, Class F insulation, continuous duty, 1.15SF.

TO THE REQUIREMENT OF **CSA C22.2 No.100-14:**

Class I, Division 2, Group A, B, C and D; Class II, Division 2, Group F and G.
 Temperature Code: T3C @40 °C Ambient, T3B @55 °C Ambient.

- Three-phase Induction Motors, NSHE series, max ambient 55 °C, 50/60 Hz, Class F or H insulation, TEFC enclosure, IP66, 2, 4, 6 and 8 poles, 600 V max, S.F. 1.15 @60 Hz, S.F. 1.0 @50 Hz, S.F. 1.0 when used in Inverter Duty, CT
 (Constant Torque): 5:1, VT (Variable Torque): 10:1, CP (Constant Power): 1:1.5.

NOMENCLATURE:

NSHE	143	T	-2	-1.5
Series Name	Frame Number: 143 through 5011	Frame Letter : T, U °C standard dimension; Suffix °C _i ± °C type C face- mounting; Suffix °D _i ± °C type D flange- mounting; Suffix °S _i ± °C standard short shaft for direct connection	No. of Pole: 2 pole 4 pole 6 pole 8 pole	Output HP: 1 through 500 HP

These motors can also be named after Brook Crompton's Nomenclature

XX	4	N	050	-5	C	xx
Prefix: X can be any letter from A to Z	No. of Pole: 2 pole 4 pole 6 pole 8 pole	N: NEMA frame	Output HP: 001 through 500: 1 through 500 HP	Voltage: 0-10 indicates different voltages as listed in below rating table.	Suffix °C _i ± °C type C face- mounting; Suffix °D _i ± °C type D flange- mounting;	Special addrs, can be numbers from 01 to 1000 for features do not affect certification

Models and ratings as following: (used NSHE series as example, Brook Crompton's model name with same HP rating has same current rating)

Model	Current (A)					
	50 Hz	60 Hz				
	380 V	208-230/460 V	230/460 V	460 V	575 V	600 V
NSHE143T-2-1.5	2.18	3.98-3.6/1.8	3.6/1.8	1.8	1.4	1.34
NSHE145T-2-2	2.91	5.31-4.8/2.4	4.8/2.4	2.4	1.9	1.82
NSHE143T-4-1	1.69	3.1-2.8/1.4	2.8/1.4	1.4	1.05	1.01
NSHE145T-4-1.5	2.36	4.31-3.9/1.95	3.9/1.95	1.95	1.49	1.43
NSHE145T-4-2	3.17	5.79-5.24/2.62	5.24/2.62	2.62	2.05	1.96
NSHE145T-6-1	1.9	3.47-3.14/1.57	3.14/1.57	1.57	1.23	1.18
NSHE182T-2-3	4.18	7.63-6.9/3.45	6.9/3.45	3.45	2.7	2.59
NSHE184T-2-5	6.84	12.5-11.3/5.65	11.3/5.65	5.65	4.5	4.31
NSHE182T-4-3	4.42	8.07-7.3/3.65	7.3/3.65	3.65	2.9	2.78
NSHE184T-4-5	7.2	13.16- 11.9/5.95	11.9/5.95	5.95	4.7	4.50
NSHE182T-6-1.5	2.72	4.98-4.5/2.25	4.5/2.25	2.25	1.7	1.63
NSHE184T-6-2	3.51	6.41-5.8/2.9	5.8/2.9	2.9	2.2	2.11
NSHE182T-8-1	2.91	5.31-4.8/2.4	4.8/2.4	2.4	1.4	1.34
NSHE184T-8-1.5	3.87	7.08-6.4/3.2	6.4/3.2	3.2	1.9	1.82
NSHE213T-2-7.5	9.96	18.2- 16.46/8.23	16.46/8.23	8.23	6.5	6.23
NSHE215T-2-10	13.52	24.7- 22.34/11.17	22.34/11.17	11.17	8.9	8.53
NSHE213T-4-7.5	10.8	19.73- 17.84/8.92	17.84/8.92	8.92	7.1	6.80
NSHE215T-4-10	14.58	26.63- 24.08/12.04	24.08/12.04	12.04	9.7	9.30
NSHE213T-6-3	4.82	8.8-7.96/3.98	7.96/3.98	3.98	3.2	3.07
NSHE215T-6-5	7.65	13.98- 12.64/6.32	12.64/6.32	6.32	5.1	4.89
NSHE213T-8-2	3.78	6.9-6.24/3.12	6.24/3.12	3.12	2.5	2.40
NSHE215T-8-3	5.45	9.95-9/4.5	9/4.5	4.5	3.6	3.45
NSHE254T-2-15	19.91	36.38- 32.9/16.45	32.9/16.45	16.45	13.1	12.55

Model	Current (A)					
	50 Hz	60 Hz				
	380 V	208-230/460 V	230/460 V	460 V	575 V	600 V
NSHE256T-2-20	26.95	49.23- 44.52/22.26	44.52/22.26	22.26	17.8	17.06
NSHE254T-4-15	20.13	36.78- 33.26/16.63	33.26/16.63	16.63	13.3	12.75
NSHE256T-4-20	27.36	49.98- 45.2/22.6	45.2/22.6	22.6	18.1	17.35
NSHE254T-6-7.5	10.37	18.95- 17.14/8.57	17.14/8.57	8.57	6.8	6.52
NSHE256T-6-10	14.67	26.8- 24.24/12.12	24.24/12.12	12.12	9.7	9.30
NSHE254T-8-5	8.39	15.33- 13.86/6.93	13.86/6.93	6.93	5.6	5.37
NSHE256T-8-7.5	12.26	22.4- 20.26/10.13	20.26/10.13	10.13	8.1	7.76
NSHE284TS-2-25	33.23	60.71- 54.9/27.45	54.9/27.45	27.45	22	21.08
NSHE286TS-2-30	32.74	72.41- 65.48/32.74	65.48/32.74	32.74	26.2	25.11
NSHE284TS-4-25	27.45	60.71- 54.9/27.45	54.9/27.45	27.45	22	21.08
NSHE286TS-4-30	32.65	72.21- 65.3/32.65	65.3/32.65	32.65	26.1	25.01
NSHE284T-6-15	17.32	38.3- 34.64/17.32	34.64/17.32	17.32	13.9	13.32
NSHE286T-6-20	23.38	51.71- 46.76/23.38	46.76/23.38	23.38	18.7	17.92
NSHE284T-8-10	13.68	30.26- 27.366/13.683	27.366/13.683	13.683	10.9	10.45
NSHE286T-8-15	19.45	43.67- 39.49/19.745	39.49/19.745	19.745	15.8	15.14
NSHE324TS-2-40	53.54	97.82- 88.46/44.23	88.46/44.23	44.23	35.6	34.12
NSHE326TS-2-50	65.62	119.89- 108.42/54.21	108.42/54.21	54.21	43.4	41.59
NSHE324TS-4-40	54.1	98.83- 89.38/44.69	89.38/44.69	44.69	35.8	34.31
NSHE326TS-4-50	66.36	121.24- 109.64/54.82	109.64/54.82	54.82	43.9	42.07
NSHE324T-6-25	35.64	65.11- 58.88/29.44	58.88/29.44	29.44	23.5	22.52
NSHE326T-6-30	42.04	76.81- 69.46/34.73	69.46/34.73	34.73	27.6	26.45

Model	Current (A)					
	50 Hz	60 Hz				
	380 V	208-230/460 V	230/460 V	460 V	575 V	600 V
NSHE324T-8-20	30.82	56.31- 50.92/25.46	50.92/25.46	25.46	20.3	19.45
NSHE326T-8-25	37.53	68.56-62/31	62/31	31	24.8	23.77
NSHE364TS-2-60	79.25	144.79- 130.94/65.47	130.94/65.47	65.47	52.4	50.22
NSHE365TS-2-75	96.35	176.02- 159.18/79.59	159.18/79.59	79.59	63.6	60.95
NSHE364TS-4-60	80.31	146.71- 132.68/66.34	132.68/66.34	66.34	53.1	50.89
NSHE365TS-4-75	98.13	179.27- 162.12/81.06	162.12/81.06	81.06	64.8	62.10
NSHE364T-6-40	55.36	101.13- 91.46/45.73	91.46/45.73	45.73	36.5	34.98
NSHE365T-6-50	68.35	124.86- 112.92/56.46	112.92/56.46	56.46	45.2	43.32
NSHE364T-8-30	44.56	81.41- 73.62/36.81	73.62/36.81	36.81	29.6	28.37
NSHE365T-8-40	30.38	110.31- 99.76/49.88	99.76/49.88	49.88	39.8	38.14
NSHE405T-2-100	131.98	241.12- 218.06/109.03	218.06/109.03	109.03	86.7	83.09
NSHE405TS-4-100	131.35	239.97- 217.02/108.51	217.02/108.51	108.51	86.9	83.28
NSHE404T-6-60	83.39	152.35- 137.78/68.89	137.78/68.89	68.89	55.1	52.80
NSHE405T-6-75	101.79	185.97- 168.18/84.09	168.18/84.09	84.09	67.3	64.50
NSHE404T-8-50	73.7	134.64- 121.76/60.88	121.76/60.88	60.88	48.7	46.67
NSHE405T-8-60	88.9	162.42- 146.88/73.44	146.88/73.44	73.44	58.9	56.45
NSHE444TS-2-125	156.62	--	--	129.38	103.6	99.28
NSHE445TS-2-150	191.64	--	--	158.48	127.4	122.09
NSHE444TS-4-125	160.18	--	--	132.32	105.8	101.39
NSHE445TS-4-150	193.94	--	--	160.21	128.3	122.95
NSHE444T-6-100	135.23	--	--	111.71	89.3	85.58

Model	Current (A)					
	50 Hz	60 Hz				
	380 V	208-230/460 V	230/460 V	460 V	575 V	600 V
NSHE445T-6-125	161.86	--	--	133.71	106.9	102.45
NSHE444T-8-75	106.09	--	--	87.64	70.1	67.18
NSHE445T-8-100	144.88	--	--	119.68	95.7	91.71
NSHE447TS-2-200	259.77	--	--	214.59	172	164.83
NSHE449TS-2-250	318.68	--	--	263.26	210.3	201.54
NSHE447TS-4-200	266.27	--	--	219.96	176.1	168.76
NSHE449TS-4-250	329.17	--	--	271.92	217.9	208.82
NSHE447T-6-150	201.07	--	--	166.1	132.9	127.36
NSHE449T-6-200	274.87	--	--	227.07	181.5	173.94
NSHE447T-8-125	170.45	--	--	140.81	112.6	107.91
NSHE449T-8-150	210.29	--	--	173.72	139.5	133.69
NSHE449TS-2-300	378.65	--	--	312.7992	250.5	240.06
NSHE449TS-2-350	451.82	--	--	373.246	296.3	283.95
NSHE449TS-2-400	519.13	--	--	428.8432	351.8	337.14
NSHE449TS-4-300	390.81	--	--	322.8448	258.4	247.63
NSHE449TS-4-350	463.36	--	--	382.772	306.3	293.54
NSHE449TS-4-400	535.27	--	--	442.1796	353.6	338.87
NSHE449T-6-250	339.65	--	--	280.584	224.4	215.05
NSHE449T-6-300	405.07	--	--	334.6224	267.1	255.97
NSHE449T-8-200	284.30	--	--	234.8592	187.7	179.88
NSHE449T-8-250	350.35	--	--	289.4172	231.6	221.95

Model	Current (A)					
	50 Hz	60 Hz				
	380 V	208-230/460 V	230/460 V	460 V	575 V	600 V
NSHE5009U-2-300	378.23	--	--	312.4528	248.9	238.53
NSHE5009U-2-350	441.76	--	--	364.9324	292.2	280.03
NSHE5009U-2-400	508.43	--	--	420.01	337.6	323.53
NSHE5011U-2-450	567.14	--	--	468.506	377.2	361.48
NSHE5011U-2-500	630.46	--	--	520.8124	417.9	400.49
NSHE5009U-4-300	395.22	--	--	326.482	260.2	249.36
NSHE5009U-4-350	468.39	--	--	386.9288	308.8	295.93
NSHE5009U-4-400	539.46	--	--	445.6436	353.8	339.06
NSHE5011U-4-450	599.85	--	--	495.5252	393.8	377.39
NSHE5011U-4-500	670.08	--	--	553.5472	441.8	423.39
NSHE5009U-6-250	329.17	--	--	271.924	217.8	208.73
NSHE5009U-6-300	391.65	--	--	323.5376	259.6	248.78
NSHE5011U-6-350	462.10	--	--	381.7328	305.9	293.15
NSHE5011U-6-400	532.13	--	--	439.5816	351.8	337.14
NSHE5009U-8-200	290.38	--	--	239.882	189.6	181.70
NSHE5009U-8-250	355.38	--	--	293.574	234.3	224.54
NSHE5011U-8-300	421.42	--	--	348.132	281.7	269.96
NSHE5011U-8-350	497.32	--	--	410.8304	328.2	314.53

Three-phase Induction Motors, max ambient 55 °C, 50 Hz, Class F insulation, TEFC enclosure, IP66, 2, 4, 6 and 8 poles, S.F. 1.0, Inverter Duty, CT (Constant Torque): 5:1, VT (Variable Torque): 10:1, CP (Constant Power): 1:1.5.

NOMENCLATURE:

NSHE	143	T	-2	-1.5
Series Name	Frame Number: 143 through 5011	Frame Letter: T, U °C standard dimension; Suffix °C _{i±} °C type C face- mounting; Suffix °D _{i±} °C type D flange- mounting; Suffix °S _{i±} °C standard short shaft for direct connection	No. of Pole: 2 pole 4 pole 6 pole 8 pole	Output HP: 1 through 500 HP

Models and ratings as following:

Model	Current (A)	
	380 V	415 V
NSHE143T-2-1.5	2.20	2.01
NSHE145T-2-2	3.00	2.75
NSHE143T-4-1	1.60	1.47
NSHE145T-4-1.5	2.50	2.29
NSHE145T-4-2	3.40	3.11
NSHE145T-6-1	2.00	1.83
NSHE182T-2-3	4.20	3.85

Model	Current (A)	
	380 V	415 V
NSHE184T-2-5	7.00	6.41
NSHE182T-4-3	4.40	4.03
NSHE184T-4-5	7.30	6.68
NSHE182T-6-1.5	2.70	2.47
NSHE184T-6-2	3.40	3.11
NSHE182T-8-1	2.30	2.11
NSHE184T-8-1.5	3.10	2.84
NSHE213T-2-7.5	10.05	9.20
NSHE215T-2-10	13.68	12.53
NSHE213T-4-7.5	10.91	9.99
NSHE215T-4-10	14.90	13.64
NSHE213T-6-3	4.85	4.44
NSHE215T-6-5	7.79	7.14
NSHE213T-8-2	3.81	3.49
NSHE215T-8-3	5.54	5.07
NSHE254T-2-15	20.09	18.40
NSHE256T-2-20	27.19	24.90
NSHE254T-4-15	20.26	18.56
NSHE256T-4-20	27.54	25.22
NSHE254T-6-7.5	10.39	9.52
NSHE256T-6-10	14.90	13.64
NSHE254T-8-5	8.49	7.77
NSHE256T-8-7.5	12.30	11.26
NSHE284TS-2-25	33.08	30.29
NSHE286TS-2-30	39.14	35.84
NSHE284TS-4-25	33.77	30.93
NSHE286TS-4-30	40.01	36.63
NSHE284T-6-15	21.30	19.51
NSHE286T-6-20	28.58	26.17
NSHE284T-8-10	16.80	15.38
NSHE286T-8-15	24.07	22.04
NSHE324TS-2-40	53.87	49.32
NSHE326TS-2-50	65.82	60.27
NSHE324TS-4-40	54.73	50.12

Model	Current (A)	
	380 V	415 V
NSHE326TS-4-50	66.51	60.90
NSHE324T-6-25	36.20	33.15
NSHE326T-6-30	42.61	39.01
NSHE324T-8-20	31.00	28.39
NSHE326T-8-25	37.93	34.73
NSHE364TS-2-60	78.81	72.16
NSHE365TS-2-75	96.13	88.02
NSHE364TS-4-60	82.10	75.17
NSHE365TS-4-75	98.72	90.40
NSHE364T-6-40	56.12	51.38
NSHE365T-6-50	69.97	64.07
NSHE364T-8-30	45.72	41.87
NSHE365T-8-40	61.31	56.14
NSHE405T-2-100	130.25	119.26
NSHE405TS-4-100	134.75	123.39
NSHE404T-6-60	84.35	77.23
NSHE405T-6-75	103.23	94.52
NSHE404T-8-50	75.69	69.31
NSHE405T-8-60	90.93	83.26
NSHE444TS-2-125	157.79	144.48
NSHE445TS-2-150	193.12	176.83
NSHE444TS-4-125	162.63	148.92
NSHE445TS-4-150	196.24	179.69
NSHE444T-6-100	137.17	125.61
NSHE445T-6-125	162.81	149.08
NSHE444T-8-75	107.56	98.49
NSHE445T-8-100	147.05	134.65
NSHE447TS-2-200	262.92	240.74
NSHE449TS-2-250	320.25	293.24
NSHE447TS-4-200	269.85	247.09

Model	Current (A)	
	380 V	415 V
NSHE449TS-4-250	332.89	304.82
NSHE447T-6-150	203.51	186.35
NSHE449T-6-200	278.16	254.70
NSHE447T-8-125	171.99	157.48
NSHE449T-8-150	212.69	194.75
NSHE5009U-2-300	375.15	343.51
NSHE5009U-2-350	440.10	402.98
NSHE5009U-2-400	505.22	462.62
NSHE5009U-4-300	396.97	363.49
NSHE5009U-4-350	466.08	426.77
NSHE5009U-4-400	534.32	489.26
NSHE5009U-6-250	330.99	303.07
NSHE5009U-6-300	393.51	360.32
NSHE5011U-6-350	464.52	425.35
NSHE5009U-8-200	288.90	264.53
NSHE5009U-8-250	363.72	333.04
NSHE5011U-8-300	434.04	397.43

Note: Suffix may be added for features not affecting certification.

/lm