

DC MOTORS FOR GENERAL INDUSTRIES APPLICATIONS

Introduction

Today, Nidec ASI is one of the world's leading suppliers of DC motors to be used for general industries applications. Our commitment to engineering and innovation allow us to design solutions to specifically fit our customers' requirements.

Main characteristics

We have significant experience in designing DC motors with an highly effective low noise cooling system that allows high power – high torque performance from compact machines. The High torque performances are possible thanks to the sized Shaft Ends, constructed from certified high quality steel.

The brush commutator system guarantees excellent performance and commutation over a wide speed range.

The machines are insulated using VPI process, with a specific resin for DC motors. Our insulation system is one of the best on the market. Due to its outstanding dielectric and mechanical properties this class H insulation system (with class F temperature rise) is qualified for use in aggressive environments and is particularly suitable for general industries applications, ensuring a high level of reliability over the entire life cycle.

Our commitment to engineering allows us to design Special solutions for GH/DH series such as our totally enclosed non-ventilated motors for outdoor applications (with IP55 type protection), particularly adapt for heavy duty handling and lifting systems.

Based on a modular design, our DC motors offer a vast selection of mounting arrangements, cooling systems, type of protection and accessories to guarantee a maximum flexibility in meeting customers application needs. Moreover the mechanical design facilitates transportation, installation and maintenance.

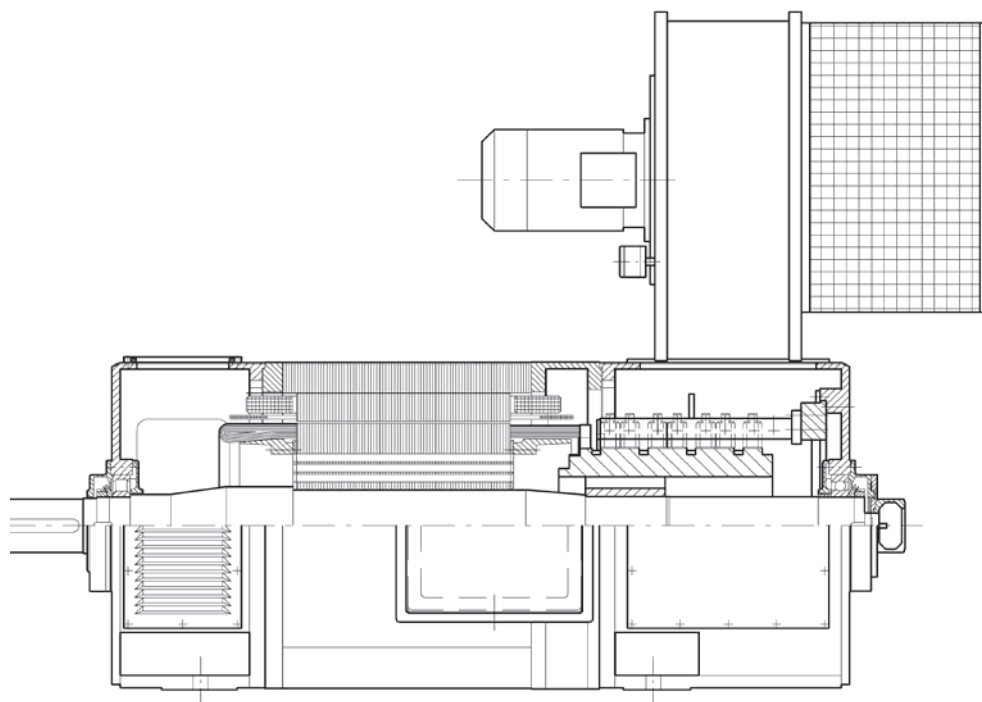
Standards

Nidec ASI DC motors are manufactured in compliance with international standards IEC 34-1 and with harmonized standards of CENELEC for European Countries EN 60034 and HD 53. On request the motors can be supplied electrically conform to NEMA (MG-1, etc..) or other specific recommendations.

Our DC motors are manufactured in accordance with Directive 2006/95/CE (LVD). The "CE" is affixed to each motor to certify compliance with the above directive.

Typical Application

- Blowers hardening
- Wood Peelings
- Food
- heavy duty handling



MODEL	POWER [kW]	TORQUE [Nm]	WEIGHT [kg]	INERTIA [kg m ²]	MODEL	POWER [kW]	TORQUE [Nm]	WEIGHT [kg]	INERTIA [kg m ²]
G 80 S	2,3	14,44	46	0,005	GH 225 S	84	1.069	780	1,66
M	2,8	18,07	51	0,007	M	96	1.222	810	1,95
L	3,5	22,27	57	0,008	L	103	1.311	870	2,20
G	4,1	26,09	67	0,009	P	116	1.476	950	2,40
G 100 S	4,9	31,18	73	0,016	X	140	1.782	1.000	2,60
M	7,6	48,36	84	0,019	GH 250 M	145	1.845	1.060	3,37
L	8,3	52,82	97	0,023	L	161	2.049	1.140	3,73
G	9,4	59,82	107	0,026	X	187	2.380	1.240	4,20
G 112 S	10,7	68,09	90	0,024	GH 280 S	202	2.571	1.400	4,90
M	12,6	80,18	101	0,029	M	225	2.864	1.500	5,60
L	15,5	98,63	112	0,034	L	257	3.271	1.600	6,10
G	17,8	113,3	126	0,038	P	283	3.602	1.700	6,80
G 132 S	18,2	115,8	150	0,051	GH 315 M	270	3.436	2.100	9,20
M	21,5	136,8	168	0,062	L	300	3.818	2.200	10,4
L	26,7	169,9	190	0,074	P	335	4.263	2.350	11,5
G	35,0	222,7	240	0,096	X	368	4.683	2.500	12,7
G 160 M	37,5	238,6	273	0,166	GH 355 S	410	5.218	2.750	15,0
L	46,0	292,7	305	0,193	M	460	5.854	2.950	16,5
G	58,0	369,1	348	0,226	L	520	6.618	3.100	18,8
X	71,5	455,0	390	0,264	P	590	7.509	3.350	21,0
G 180 S	70,0	445,4	380	0,52	GH 400 M	630	8.018	3.800	31,5
M	84,0	534,5	420	0,61	L	700	8.909	4.200	34,5
L	97,6	621,1	460	0,70	P	800	10.181	4.550	38,5
P	110,0	700,0	495	0,79	GH 450 M	820	10.436	5.000	38,0
G 200 S	95,0	604,5	580	1,02	L	910	11.581	5.200	43,0
M	110,0	700,0	625	1,14	P	1.030	13.108	5.500	49,0
L	125,0	795,4	670	1,26	X	1.100	13.999	5.920	55,0
P	145,0	922,7	715	1,38	Y	1.220	15.527	6.350	62,0

Power ratings refer to 1500 r/min up to size 200 and 750 r/min from frame size 225 to 450.