

## BRUSHLESS LS - HS

### 7 to 31N.m

The LS-HS brushless servo motors short construction can offer the solution when space available for motor is reduced or when the load inertia is high.

Developed with a rotor using ferrite magnets, they range from 7 to 31 Nm.

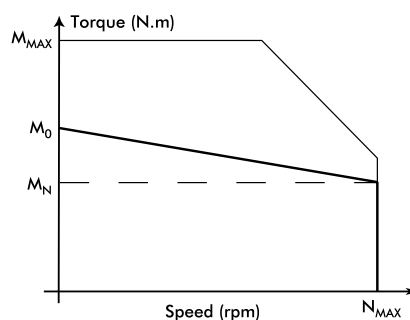
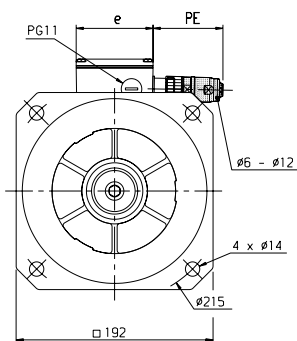
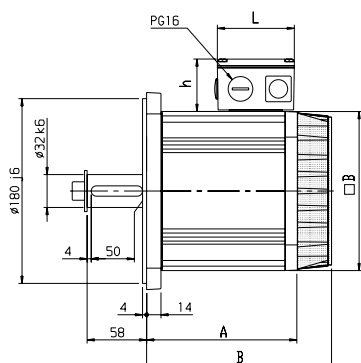


### LS - 230V power supply

Motor	M <sub>0</sub> (N.m)	I <sub>0</sub> (A)	M <sub>N</sub> (N.m)	N <sub>MAX</sub> (rpm)	M <sub>MAX</sub> (N.m)	Inertia J (kgm <sup>2</sup> .10 <sup>-3</sup> )	DIGIVEX Drive Rating
LS810EX	7	7.18	6.7	2000	13.2	200	7.5/15
LS810ER	7	13.9	6.1	4000	13.5	200	15/30
LS820EQ	14	14.8	13.1	2100	25.7	350	15/30
LS820EJ	14	27.8	11.6	4000	27	350	30/60
LS910EW	15	14.3	13.6	1800	28.1	680	15/30
LS910EM	15	27.9	11.4	3600	28.6	680	30/60
LS920EM	31	27.4	28	1800	59.5	1200	30/60
LS920EH	31	52.5	22.4	3400	53.2	1200	60/100

### HS - 400V power supply

Motor	M <sub>0</sub> (N.m)	I <sub>0</sub> (A)	M <sub>N</sub> (N.m)	N <sub>max</sub> (rpm)	M <sub>max</sub> (N.m)	Inertia J (kgm <sup>2</sup> .10 <sup>-3</sup> )	DIGIVEX Drive Rating
HS810EZ	7	4	6.6	2200	12.7	200	4/8
HS810EY	7	6.42	6.3	3600	13.6	200	8/16
HS810EW	7	8	6	4400	12.7	200	8/16
HS820EV	14	7.76	13	2200	26.1	350	8/16
HS820EQ	14	14.8	11.3	4200	27.1	350	16/32
HS910EX	15	7.05	13.7	1700	29.1	680	8/16
HS910EW	15	14.3	11.4	3600	29.1	680	16/32
HS920EW	31	7.51	29.9	900	58.3	1200	8/16
HS920ET	31	15	27.8	1900	58.3	1200	16/32
HS920EL	31	30	20.5	3800	58.3	1200	32/64



### LS-HS dimensions

Motor	L (mm)	h (mm)	e (mm)	PE (mm)	□B (mm)	A <sup>(1)</sup> (mm)	B <sup>(2)</sup> (mm)	Weight (kg)	Fr* (daN)	Fa* (daN)
LS810	76	51	76	91	155	144	182	10.4	65	45
LS820	76	51	76	91	155	185	223	14.6	70	50
LS910	95	65	95	91	192	166	200	17	105	40
LS920	95	65	95	91	192	216	259	25.2	120	40
HS810	76	51	76	91	155	144	182	10.4	65	45
HS820	76	51	76	91	155	185	223	14.6	70	50
HS910	95	65	95	91	192	166	200	17	105	40
HS920	95	65	95	91	192	216	259	25.2	120	40

(1) : no brake (2) : with brake  
\* Fr and Fa not cumulative ; at 3000 rpm

**SHORT CONSTRUCTION  
230V AND 400 POWER SUPPLY**

**FERRITE MAGNETS**

**RESOLVER CONNECTOR AND  
TERMINAL BOX FOR POWER**

**BRAKE OPTION**

**CLASS F INSULATION**

**IP64 PROTECTION,  
IP65 AS OPTION**

## BRUSHLESS LX - HX

### 6.7 to 320N.m

LX-HX brushless servo motors series are characterised by a very large torque range and by the highest torque to inertia ratio. They are particularly adapted to demanding servo applications needing very high dynamic characteristics.



- LOW INERTIA CONSTRUCTION
- 230V AND 400V POWER SUPPLY
- HIGH DYNAMIC CHARACTERISTICS
- RARE EARTH MAGNETS
- RESOLVER CONNECTOR AND TERMINAL BOX FOR POWER
- BRAKE OPTION
- CLASS F INSULATION
- IP64 PROTECTION, IP65 AS OPTION

### LX - 230V power supply

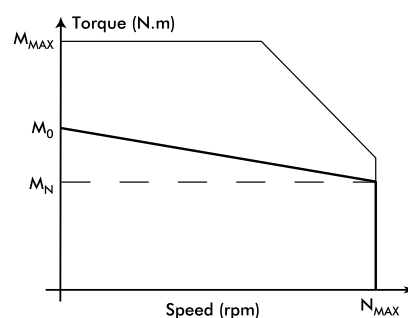
Motor	M <sub>0</sub> (N.m)	I <sub>0</sub> (A)	M <sub>N</sub> (N.m)	N <sub>MAX</sub> (rpm)	M <sub>MAX</sub> (N.m)	Inertia J (kgm <sup>2</sup> .10 <sup>-3</sup> )	DIGIVEX Drive Rating
LX440CL	6.7	7	6.1	2200	13.6	34	7.5/15
LX440CC	6.7	14.7	5.2	4700	13.0	34	15/30
LX440CB	6.7	19	4.6	6000	15.5	34	30/60
LX820DH	19	27.6	16.1	2800	38.4	230	30/60
LX820DF	19	36.8	13.9	3800	42.6	230	60/100
LX820VK <sup>(1)</sup>	28	29.8	26.7	2000	48	230	30/60
LX820VF <sup>(1)</sup>	28	54.6	22.8	3800	45.1	230	60/100
LX840DG	38	29.6	32.5	1600	72.8	420	30/60
LX840DE	38	41.4	28.4	2200	83.8	420	60/100
LX840VE <sup>(1)</sup>	54	59.7	46.8	2200	83.8	420	60/100

<sup>(1)</sup> Ventilated motor

### HX - 400V power supply

Motor	M <sub>0</sub> (N.m)	I <sub>0</sub> (A)	M <sub>N</sub> (N.m)	N <sub>MAX</sub> (rpm)	M <sub>MAX</sub> (N.m)	Inertia J (kgm <sup>2</sup> .10 <sup>-3</sup> )	DIGIVEX Drive Rating
HX440CW	6.7	3.5	6.2	2100	14.4	34	4/8
HX440CR	6.7	4.9	5.9	3000	15.5	34	8/16
HX440CK	6.7	7.4	5.3	4500	13.7	34	8/16
HX440CH	6.7	9.5	4.7	5800	15.5	34	16/32
HX820DT	19	7.9	18.1	1500	36.4	230	8/16
HX820DN	19	15.8	15.5	3100	36.4	230	16/32
HX820DJ	19	22.1	12.8	4200	42.5	230	32/64
HX820VK <sup>(1)</sup>	28	29.8	22.2	4000	50	230	32/64
HX820VH <sup>(1)</sup>	28	41	18.7	5000	47	230	50/80
HX840DN	38	14.8	33.1	1500	76.8	420	16/32
HX840DH	38	25.9	25	2600	85.3	420	32/64
HX840VJ <sup>(1)</sup>	55	30.5	47.4	2100	100.5	420	32/64
HX840VG <sup>(1)</sup>	55	43.5	40.6	3100	91.3	420	50/80
HX840VG <sup>(1)</sup>	55	43.5	40.6	3100	112.9	420	100/120
HXA30V <sup>(1)</sup>	170	98.8	123.9	2000	190.7	2700	100/120
HXA40V <sup>(1)</sup>	228	99.6	185.9	1400	254	3500	100/120
HXA40VG <sup>(1)</sup>	230	130	170.9	1900	250	3500	150
HXA40VE <sup>(1)</sup>	230	182	147.7	2700	243	3500	200
HXA50VF <sup>(1)</sup>	280	146	213	1800	284	4300	150
HXA50VE <sup>(1)</sup>	280	175	204	2150	303	4300	200
HXA60VF <sup>(1)</sup>	320	136	262	1450	339	5100	150
HXA60VD <sup>(1)</sup>	315	199	206	2200	315	5100	200

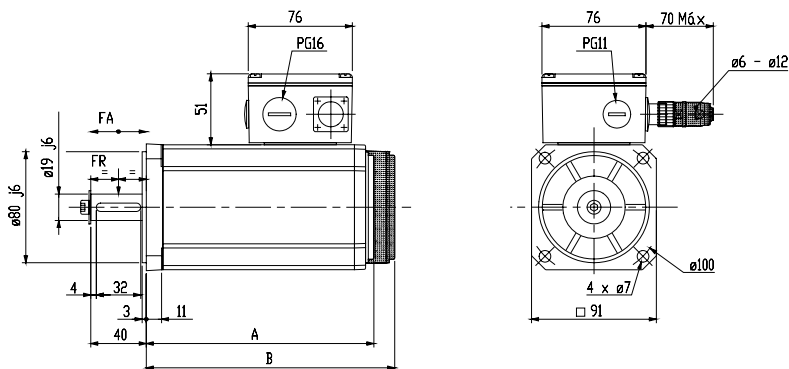
<sup>(1)</sup> Ventilated motor



## LX4 - HX4 dimensions

Motor	No brake		With brake		Fr*	Fa*
	A (mm)	B (mm)	Weight (kg)	Weight (kg)		
LX440	214	264	6.4	45	20	20
HX440	214	264	6.4	45	20	20

\* Fr and Fa not cumulative ; at 3000 rpm

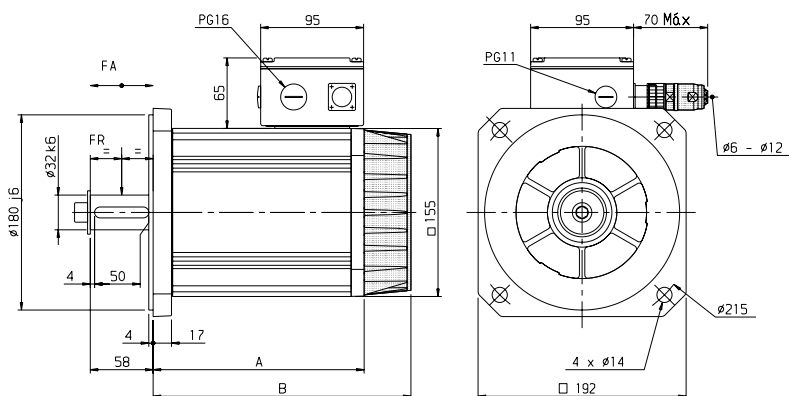


## LX8 - HX8 dimensions

Motor	No brake		With brake		Fr*	Fa*
	A (mm)	B (mm)	Weight (kg)	Weight (kg)		
LX820	238	305	17	250	35	35
LX840	322	389	26	250	35	35
HX820	238	305	17	250	35	35
HX840	322	389	26	250	35	35

\* Fr and Fa not cumulative ; at 3000 rpm

Power connector as option

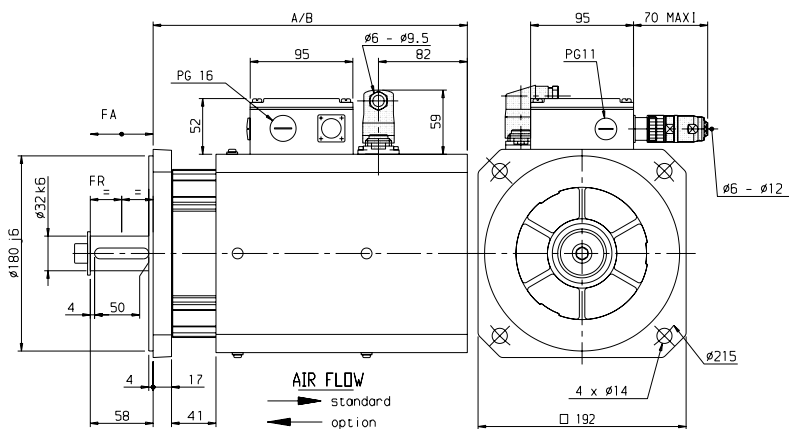


## LX8V - HX8V dimensions

Motor	No brake		With brake		Fr*	Fa*
	A (mm)	B (mm)	Weight (kg)	Weight (kg)		
LX820V	333	401	23	250	35	35
LX840V	417	485	32	250	35	35
HX820V	333	401	23	250	35	35
HX840V	417	485	32	250	35	35

\* Fr and Fa not cumulative ; at 3000 rpm

Power connector as option



## HXA dimensions

Motor	No brake		With brake		Fr*	Fa*
	E (mm)	L (mm)	E (mm)	L (mm)		
HXA30V	271	582	271	582	100	530
HXA40V	349	660	349	660	110	550
HXA50V	349	660	391	702	120	550
HXA60V	391	702	-	-	135	550

\* Fr and Fa not cumulative ; at 3000 rpm

