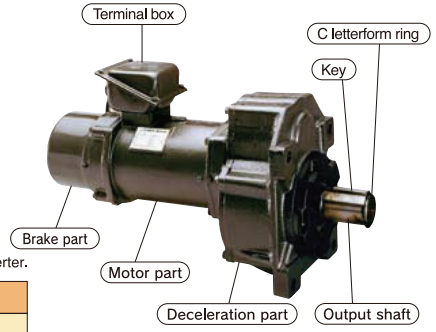
Geared motor for crane saddle
SGM-A

Standard specifications

Power supply : 3-phase 200V 50/60Hz(220V 60Hz is available.)
With brake
Enclosure : indoor type
Ambient air temperature : -10℃ to 40℃(Non congeration)
Ambient air humidity : 90% or less (Non condensing)
Color coating : Metallic glay
note:(1)SGM-3.7A-HK2 are Made-to-order product.
(2)Inertia Moment of permissible load :
Standard type Ten times Inertia Moment of motor
(3)Start accumulator such as inverters is necessary for HK type.
Assume the brake circuit to be another power supply when you use inverter.



Line up and ratings

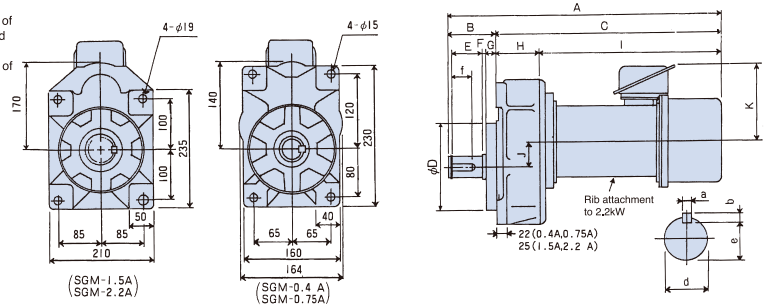
		low speed type	high speed type
		LK type(standard type)	HK type(standard type)
Output shaft revolving(r/min)	50Hz	75	125
	60Hz	90	150
Energizing rate		25%ED	

Capacity	Number of poles	Current(A)50/60Hz	Permissible start frequency	Inertia Moment of motor(kg/m²)
0.4 KW	4P	3.0/2.4	150	0.0015
0.75KW		4.5/3.8	120	0.0025
1.5 KW		8.5/7.0	120	0.0037
2.2 KW		9.7/9.1	100	0.0062
3.7 KW		15.8/15.0	75	0.0160

※contact us for further information about B type.

0.4～2.2kW Standard type(Low speed type, High speed type)

note
※1.Allowance of fixing match of φd is m6→Recommended allowance of object is F7
2.Allowance of fixing match of φD is f7→Recommended allowance of object is F7

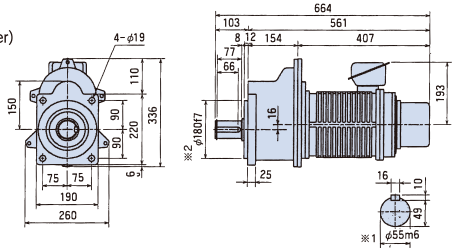


type	Output (kW)	Poles	Key size (mm)	Dimensions a	b	d※1	e	f	A	B	C	D※2	E	F	G	H	I	J	K	Weight (kg)
SGM-0.4A-LK2,HK2	0.4	4	10×8 —36	10	8	35	30.0	36	466	75	391	140	50	5	15	70	321	39	129	28
SGM-0.75A-LK2,HK2	0.75								486	75	411	140	50	5	15	70	341	39	135	34
SGM-1.5A-LK2,HK2	1.5		14×9 —56	14	9	50	44.5	56	615.5	100	515.5	160	70	5	20	107.5	408	46	163	63
SGM-2.2A-LK,HK	2.2								609	100	509	160	70	5	20	107.5	401.5	46	172	67

3.7kW Standard Low speed type (Weight:95kg)

SGM-3.7A-LK2
SGM-3.7A-HK2(Made by order)

note
Recommended allowance of ※1 is F7
Recommended allowance of ※2 is F7(JIS-B0401)



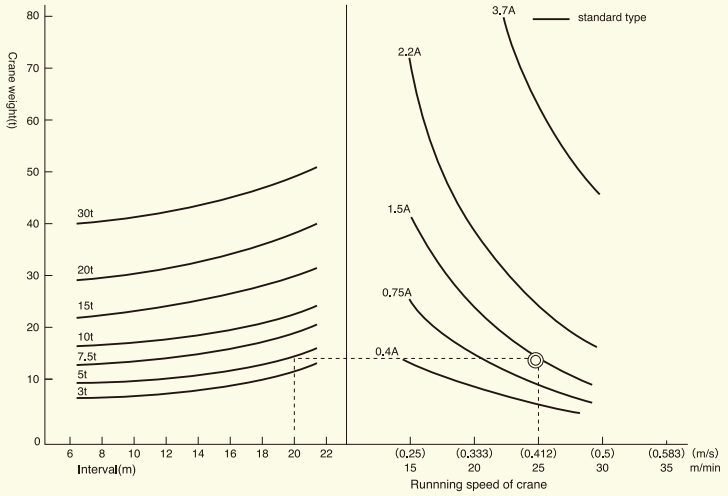
Model selection list

1.Setting of crane saddle : box type, Steel thickness 6mm
2.Inertia Moment of permissible load :
Standard type Ten times Inertia Moment of motor
With silicon coupling Seven times Inertia Moment of motor

Inertia Moment of $= \frac{W \times V^2}{4(\pi^2 \times N^2)}$ (kg・m²)

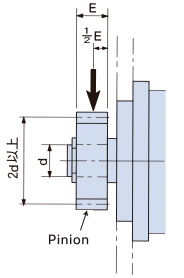
W:weight of crane V:Running speed(m/min)
N:Output shaft revolving(r/min)

3.Do not exceed 25m/min at the running speed when using standard type without start accumulator such as inverters.
4.Selection example
SGM-1.5A type(standard type) corresponds for 5t, 20m interval, 25m/min runnning speed, and to ◎sign in a lower graph.



(1)Avoid the collision of the saddle to the stopper as much as possible, and install the buffer in the saddle.
(2)Contact us for further information about use excluding general factory like explosion-proof environment etc.

Adjustment with crane saddle



(1)Diameter of pinion…
Diameter of pinion pitch≧2×Diameter of output shaft
(2)Point of gaining weight…
Center of width of pinion
(3)Permissible overhang…Load P(kg)

type	LK	HK
SGM-0.4A	150	90
SGM-0.75A	290	160
SGM-1.5A	400	230
SGM-2.2A	580	340
SGM-3.7A	900	540