



BEST FOR CRANE TRANSVERSING APPLICATIONS



SOFT START/STOP Reduction Gear Motor



TAIWAN : HOITECH MACHINERY INDUSTRIAL CO., LTD
VIETNAM : QUANG LIEN CRANE ELEVATOR CO., LTD.



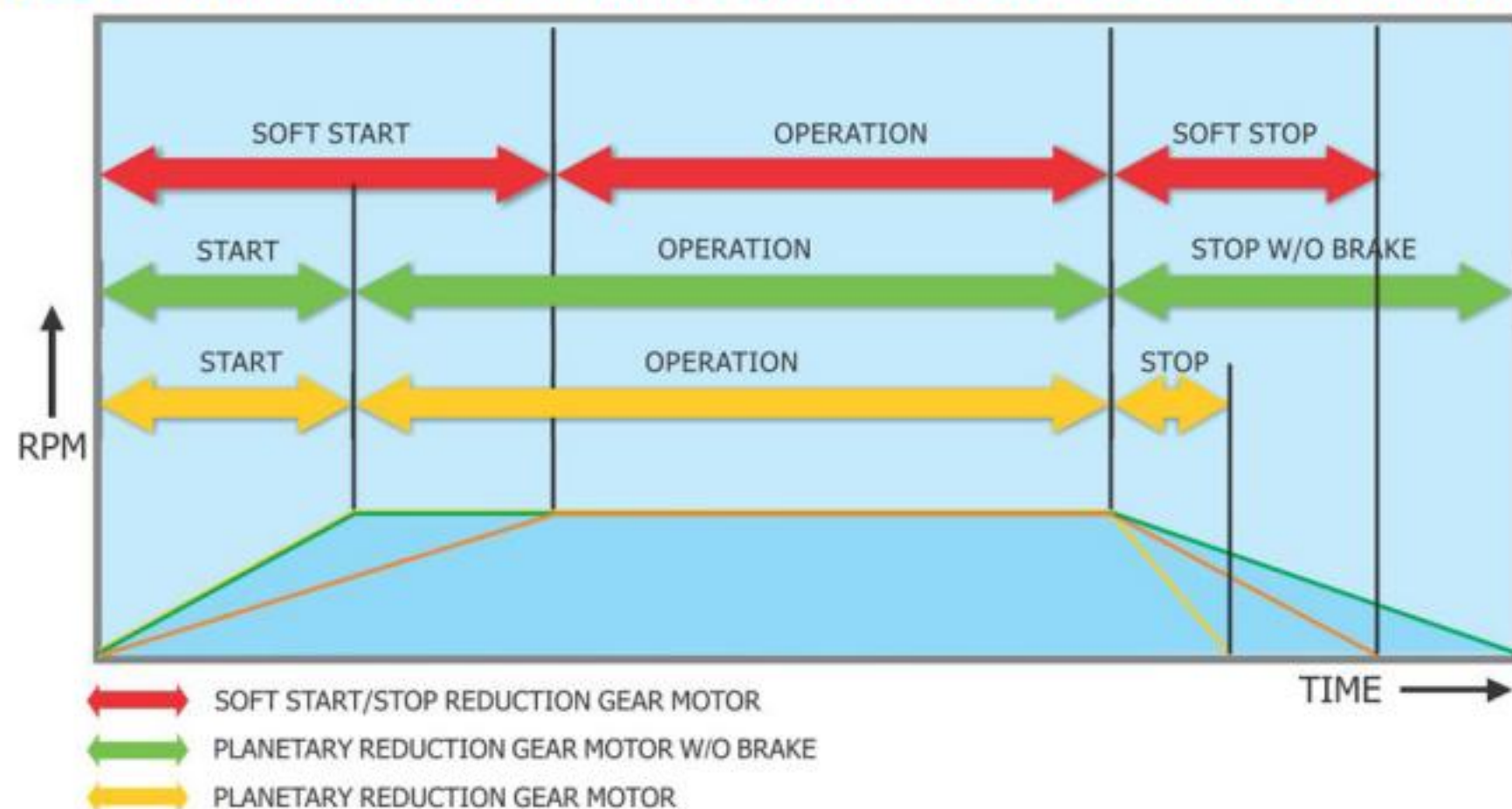


SPECIAL MOTOR FOR HOIST SADDLE

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OPERATION CHART OF NST AND PR SERIES REDUCTION GEAR MOTOR



Reducer

- 1.Reducer housing is formed from FC25 high strength material and machined with precision on computer programmed CNC machine.
- 2.Gears machined from SCM21 material, teeth are machine grooved, then gears are heat treated to high hardness for long life.

Flywheel (Soft Start / Stop)

- 1.Incorporate a flywheel provide a smoother acceleration and greatly reduces the pendulum motion when decelerating.
- 2.It provides a restraining effect on the starting torque of the motor thus providing a smooth start and stop.

Motor

- 1.Motor housing design provides rapid heat dissipation.
- 2.Motor offers compact design, low starting amperages while yielding high starting torque: A mandatory requirement for motor.

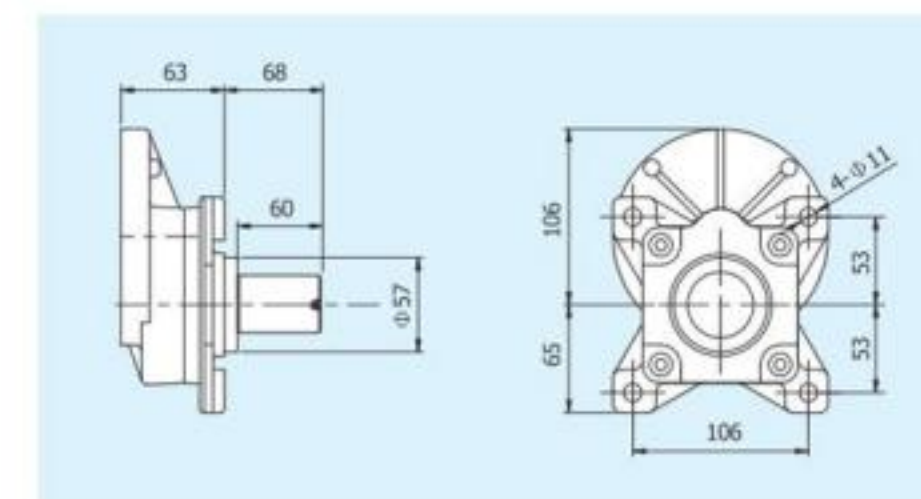
Electromagnetic Brake

- 1.DC brake provides excellent braking capability and easy to adjust and control the braking force for custom application.
- 2.employs wear-resistant linings for longer life.

PRODUCT CODE

G1	A	07	B
GEARBOX SPECIFICATION	REDUCTION RATIO/	CAPACITY/	POLES OF MOTOR WINDING/
G1~G3= Dual Stage Soft Start / Stop Reduction Gear Motor	A=1/8.5	01=0.18kw 06=0.6kw 18=1.8kw	A=4P
G1-1= Dual Stage Soft Start / Stop Reduction Gear Motor	B=1/15	02=0.25kw 07=0.75kw 20=2.0kw	B=6P
G4= Single Stage Soft Start / Stop Reduction Gear Motor	C=1/20	03=0.3kw 09=0.9kw 22=2.2kw	E=8P
G5= Single Stage Reduction Gear Motor	F=1/12	04=0.4kw 11=1.1kw 30=3.0kw	C=4/8P
G6~G7= Planetary Reduction Gear Motor	E=1/8	05=0.5kw 15=1.5kw 37=3.75kw	D=4/12P
	H=1/10		

<< G5 SERIES (Non Soft Start/Stop)



Dimension Length (Pinion Included) : 315mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G5E-02A	0.25	4	200V - 600V	1/8	215	180	M3.5x10T	13
G5E-01B	0.18	6			143	120	M3.5x12T	
G5E-04A	0.4	4	200V - 600V	1/8	215	180	M3.5x10T	14
G5E-02B	0.25	6			143	120	M3.5x12T	
G5E-02D	0.25/0.08	4/12			215/72	180/60	M3.5x12T	

Dimension Length (Pinion Included) : 335mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G5E-05A	0.5	4	200V - 600V	1/8	215	180	M3.5x10T	16
G5E-03B	0.3	6			143	120	M3.5x12T	
G5E-04D	0.4/0.13	4/12			215/72	180/60	M3.5x12T	

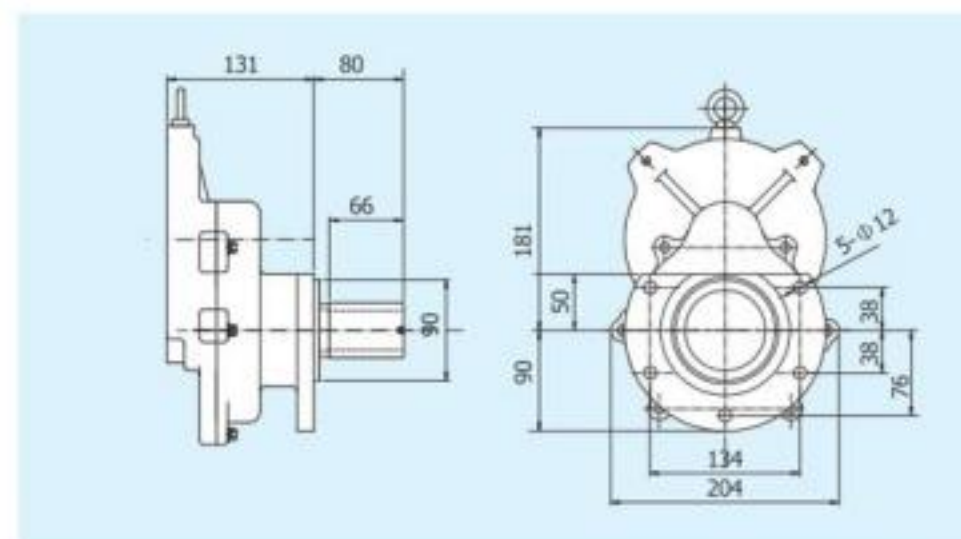


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>> G4 SERIES (Soft Start/Stop)



Dimension Length (Pinion Included) : 435mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G4A-04A	0.4	4	200V - 600V	1/8.5	203	169	M3.5x11T	30
G4A-03B	0.3	6			135	112	M3.5x12T	
G4A-02E	0.2	8			101	84	M3.5x15T	

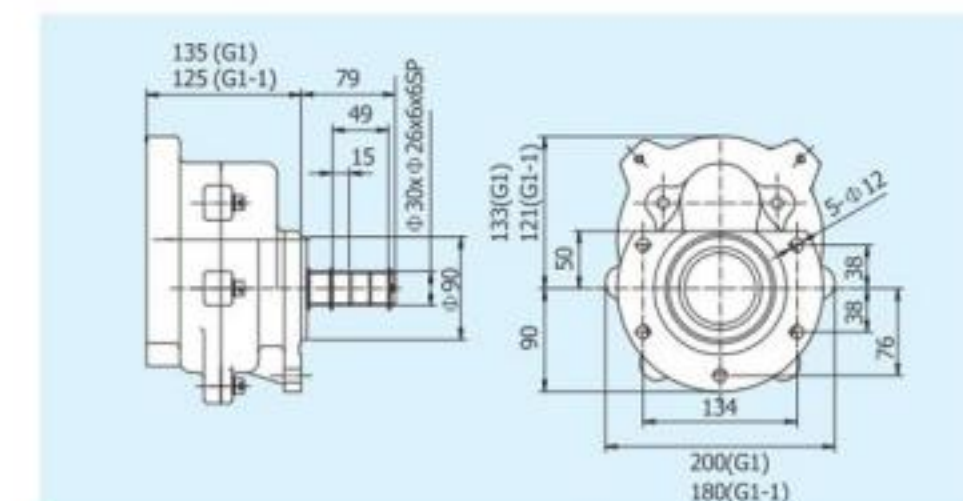
Dimension Length (Pinion Included) : 467mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G4A-07A	0.75	4	200V - 600V	1/8.5	203	169	M3.5x11T	37
G4A-06B	0.6	6			135	112	M3.5x12T	
G4A-04C	0.4/0.2	4/8			203/101	169/84	M3.5x13T	
G4A-04D	0.4/0.13	4/12			203/68	169/56	M3.5x15T	

Dimension Length (Pinion Included) : 507mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G4A-07B	0.75	6	200V - 600V	1/8.5	135	112	M3.5x11T	40
G4A-07C	0.75/0.375	4/8			203/101	169/84	M3.5x12T	
G4A-07D	0.75/0.25	4/12			203/68	169/56	M3.5x13T	
							M3.5x15T	

<< G1 SERIES (Soft Start/Stop)



Dimension Length (Pinion Included) : 438mm(G1) 428mm(G1-1)

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G1A-04A	0.4	4	200V - 600V	1/8.5	203	169	M3.0	31
G1A-03B	0.3	6			135	112		
G1A-02E	0.2	8			101	84		
G1B-04A	0.4	4	200V - 600V	1/15	115	96	M3.5	31
G1-1B-04A	0.4	4			115	96	M4.0	28
G1B-03B	0.3	6			77	64		31
G1B-02E	0.2	8			58	48		

Dimension Length (Pinion Included) : 470mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G1A-07A	0.75	4	200V - 600V	1/8.5	203	169	M3.0	38
G1A-06B	0.6	6			135	112		
G1A-04C	0.4/0.2	4/8			203/101	169/84		
G1A-04D	0.4/0.13	4/12			203/68	169/56	M3.5	
G1B-07A	0.75	4	200V - 600V	1/15	115	96	M4.0	38
G1B-06B	0.6	6			77	64		
G1B-04C	0.4/0.2	4/8			115/58	96/48		
G1B-04D	0.4/0.13	4/12			115/38	96/32		

Dimension Length (Pinion Included) : 510mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G1A-07B	0.75	6	200V - 600V	1/8.5	135	112	M3.0	41
G1A-07C	0.75/0.375	4/8			203/101	169/84		
G1A-07D	0.75/0.25	4/12			203/68	169/56		
G1B-07B	0.75	6			77	64	M3.5	
G1B-07C	0.75/0.375	4/8	200V - 600V	1/15	115/58	96/48	M4.0	41
G1B-07D	0.75/0.25	4/12			115/38	96/32		

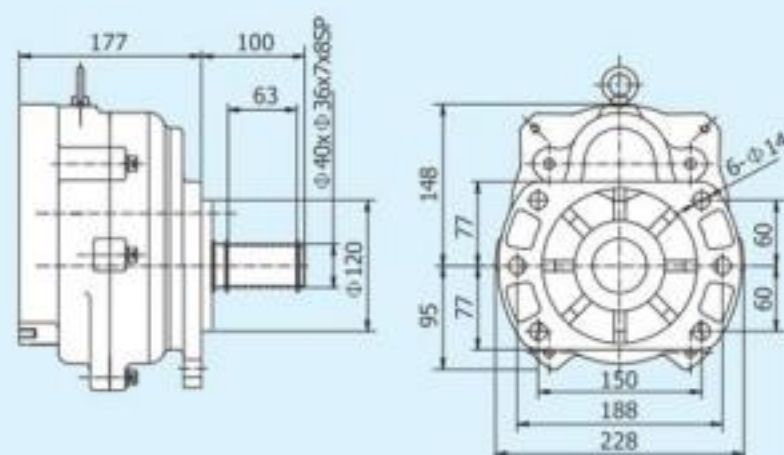


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>> G2 SERIES (Soft Start/Stop)



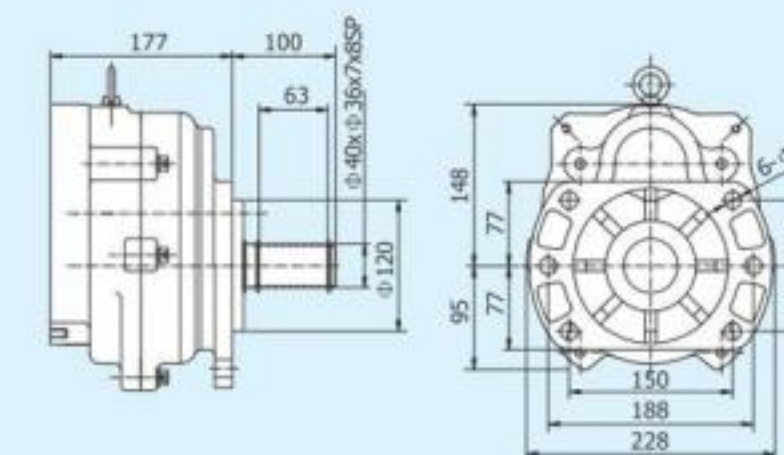
Dimension Length (Pinion Included) : 538mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G2F-11A	1.1	4	200V - 600V	1/12	143	119	M3.5	50
G2C-11A	1.1	4	200V - 600V	1/20	86	72	M4.0 M6.0	50

Dimension Length (Pinion Included) : 550mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G2F-15A	1.5	4	200V - 600V	1/12	143	119	M3.5	53
G2C-15A	1.5	4	200V - 600V	1/20	86	72	M4.0 M6.0	53

<< G2 SERIES (Soft Start/Stop)



Dimension Length (Pinion Included) : 630mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G2F-15B	1.5	6	200V - 600V	1/12	95	79	M3.5	65
G2F-11C	1.1/0.55	4/8			143/72	119/60		
G2F-11D	1.1/0.37	4/12			143/47	119/39		
G2C-15B	1.5	6	200V - 600V	1/20	57	48	M4.0 M6.0	65
G2C-11C	1.1/0.55	4/8			86/43	72/36		
G2C-11D	1.1/0.37	4/12			86/28	72/24		

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G2F-18B	1.8	6	200V - 600V	1/12	95	79	M3.5	68
G2F-15C	1.5/0.75	4/8			143/72	119/60		
G2F-15D	1.5/0.5	4/12			143/47	119/39		
G2C-18B	1.8	6	200V - 600V	1/20	57	48	M4.0 M6.0	68
G2C-15C	1.5/0.75	4/8			86/43	72/36		
G2C-15D	1.5/0.5	4/12			86/28	72/24		

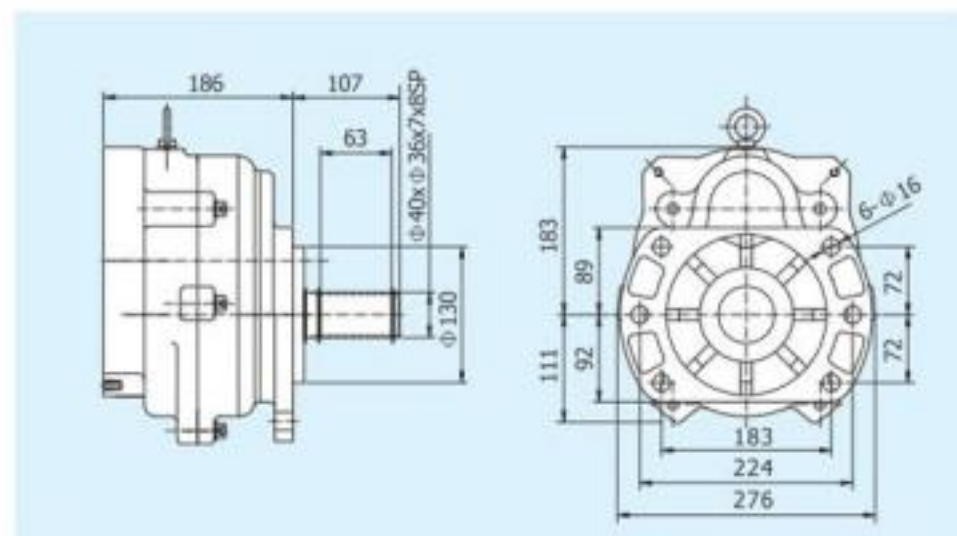


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>> G3 SERIES (Soft Start/Stop)



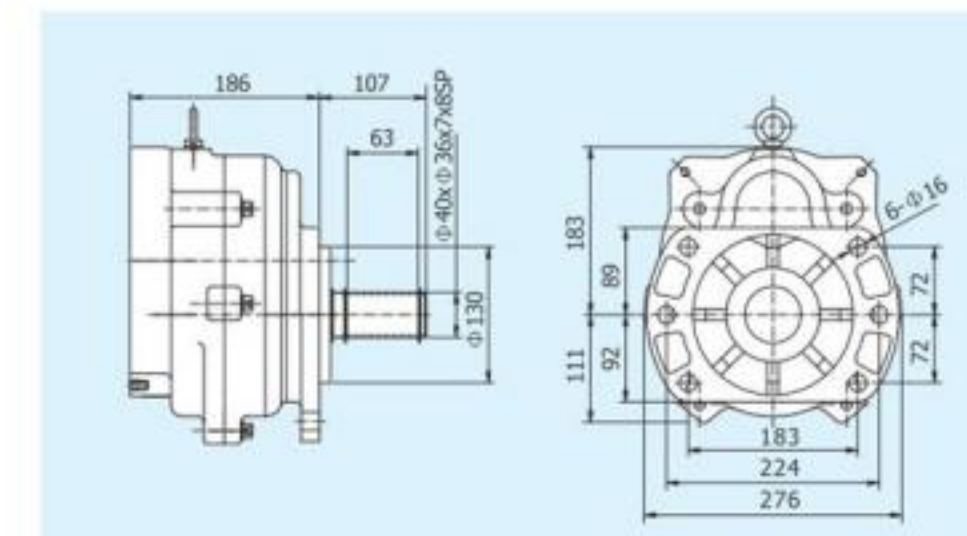
Dimension Length (Pinion Included) : 605mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G3F-22A	2.2	4	200V - 600V	1/12	143	119	M3.5	87
G3C-22A	2.2	4	200V - 600V	1/20	86	72		87
G3F-30A	3.0	4	200V - 600V	1/12	143	119	M4.0	91
G3F-20B	2.0	6			95	79		91
G3C-30A	3.0	4	200V - 600V	1/20	86	72	M6.0	91
G3C-20B	2.0	6			57	48		91

Dimension Length (Pinion Included) : 625mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G3F-37A	3.75	4	200V - 600V	1/12	143	119	M3.5	94
G3F-22B	2.2	6			95	79	M4.0	
G3C-37A	3.75	4	200V - 600V	1/20	86	72	M6.0	94
G3C-22B	2.2	6			57	48	M6.0	

<< G3 SERIES (Soft Start/Stop)



Dimension Length (Pinion Included) : 675mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G3F-22C	2.2/1.1	4/8	200V - 600V	1/12	143/72	119/60	M3.5	102
G3F-22D	2.2/0.75	4/12			143/47	119/39		
G3C-22C	2.2/1.1	4/8	200V - 600V	1/20	86/43	72/36	M4.0	102
G3C-22D	2.2/0.75	4/12			86/28	72/24		
G3F-30C	3.0/1.5	4/8	200V - 600V	1/12	143/72	119/60	M4.0	106
G3F-30D	3.0/1.0	4/12			143/47	119/39		
G3C-30C	3.0/1.5	4/8	200V - 600V	1/20	86/43	72/36	M6.0	106
G3C-30D	3.0/1.0	4/12			86/28	72/24		

Dimension Length (Pinion Included) : 695mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G3F-37C	3.75/1.87	4/8	200V - 600V	1/12	143/72	119/60	M3.5	110
G3F-37D	3.75/1.25	4/12			143/47	119/39	M4.0	
G3C-37C	3.75/1.87	4/8	200V - 600V	1/20	86/43	72/36	M6.0	110
G3C-37D	3.75/1.25	4/12			86/28	72/24		

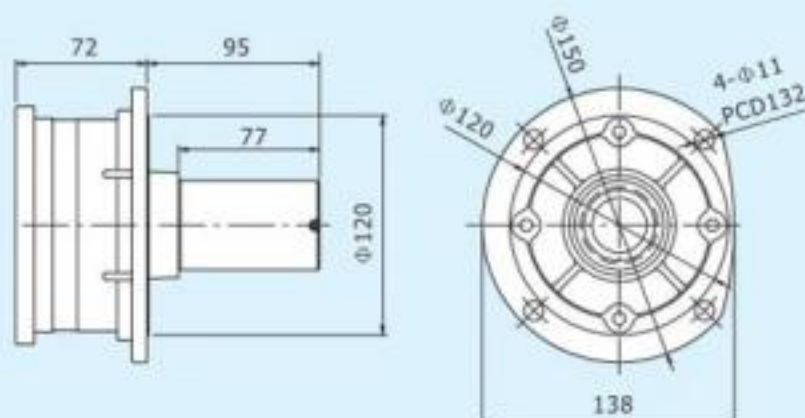


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>> G6 SERIES (Non Soft Start/Stop)



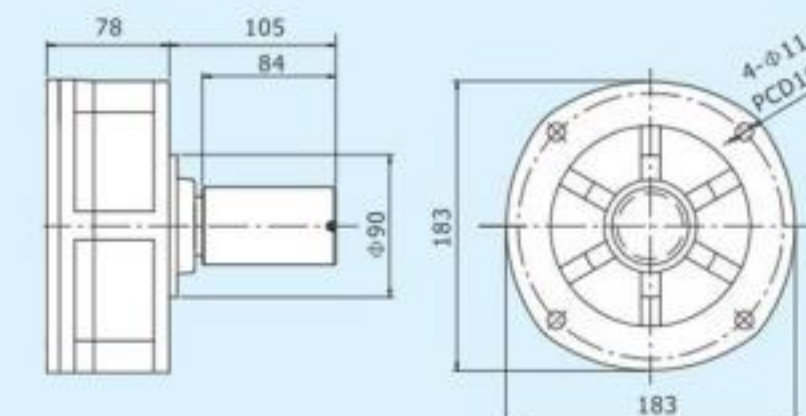
Dimension Length (Pinion Included) : 350mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G6H-02A	0.25	4	200V - 600V	1/10	172	143	M3.0x13T	12
G6H-01B	0.18	6			115	95	M3.0x15T	
G6H-04A	0.4	4	200V - 600V	1/10	172	143	M3.5x12T	13
G6H-02B	0.25	6			115	95	M3.5x12T	
G6H-02D	0.25/0.08	4/12			172/57	143/47	M3.5x16T	

Dimension Length (Pinion Included) : 370mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G6H-05A	0.5	4	200V - 600V	1/10	172	143	M3.0x13T	15
G6H-03B	0.3	6			115	95	M3.0x15T	
G6H-04D	0.4/0.13	4/12			172/57	143/47	M3.5x16T	

<< G7 SERIES (Non Soft Start/Stop)



Dimension Length (Pinion Included) : 375mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G7H-06A	0.6	4	200V - 600V	1/10	172	143	M3.5x18T	21
G7H-03B	0.3	6			115	95	M3.5x23T	
G7H-02D	0.2/0.06	4/12			172/57	143/47	M4.0x22T	

Dimension Length (Pinion Included) : 405mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G7H-09A	0.9	4	200V - 600V	1/10	172	143	M3.5x18T	25
G7H-04B	0.4	6			115	95	M3.5x23T	
G7H-06D	0.6/0.2	4/12			172/57	143/47	M4.0x22T	

Dimension Length (Pinion Included) : 430mm

MODEL	POWER (kw)	POLE (P)	VOLTAGE	RAT.	RPM.		PINION (Replaceable)	WEIGHT (kg)
					60Hz	50Hz		
G7H-11A	1.1	4	200V - 600V	1/10	172	143	M3.5x18T	28
G7H-06B	0.6	6			115	95	M3.5x23T	
G7H-09D	0.9/0.3	4/12			172/57	143/47	M4.0x22T	

Professional cranes & hoists for lifting



Taiwan Black Bear Factory



QUANG LIEN Factory



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- Revision of February, 2013 (Edition No.5) #950192
- No further notice while sizes and dimensions update ;
Quotations are based on practical dimensions.
- Due to the printing factors, the color of the products is
subject to minor deviation from the physical objects.