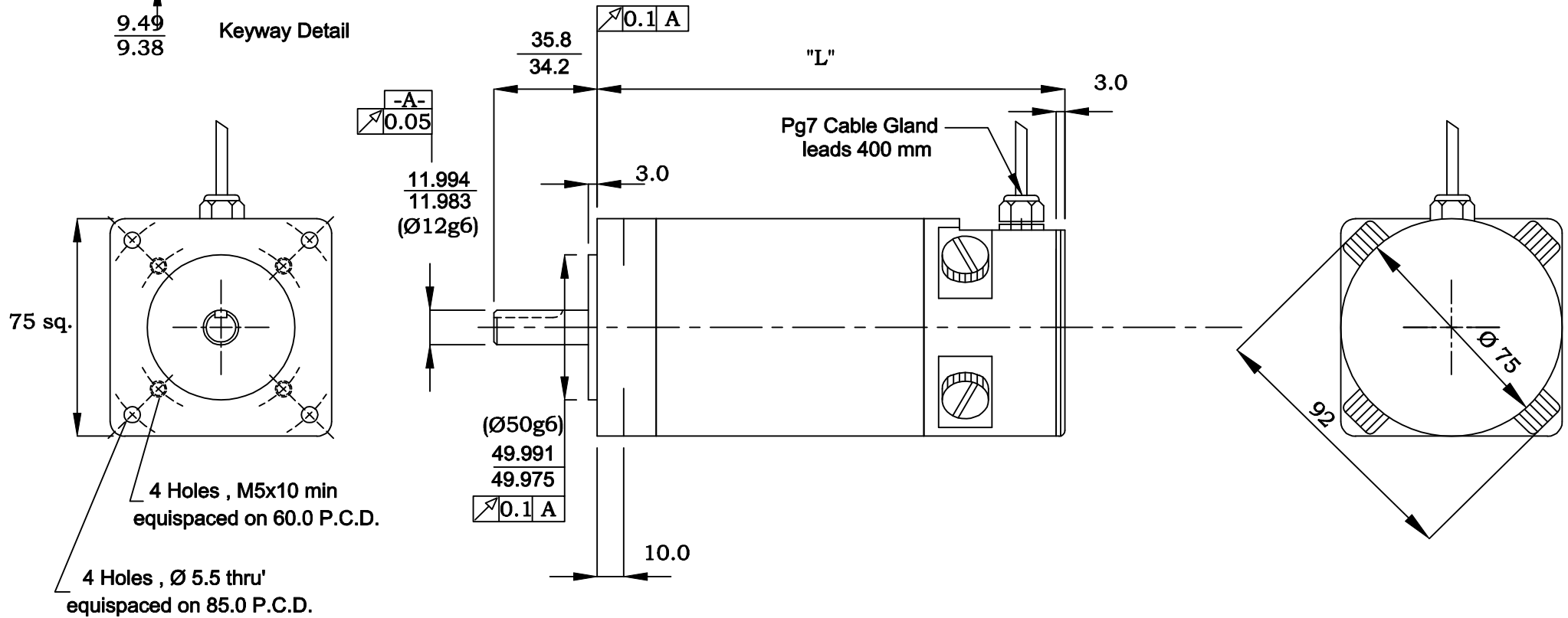


Keyway Detail

Motor Part Number	Length "L"
M4-2003x-00000-000	104
M4-2004x-00000-000	122
M4-2005x-00000-000	141
M4-2006x-00000-000	159



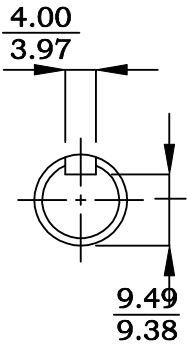
4 Holes , M5x10 min
equispaced on 60.0 P.C.D.

4 Holes , Ø 5.5 thru'
equispaced on 85.0 P.C.D.

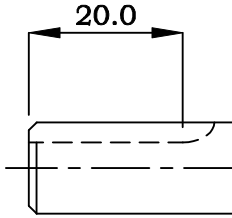
Notes :-

1. With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor.
2. Motor can be mounted in any position.

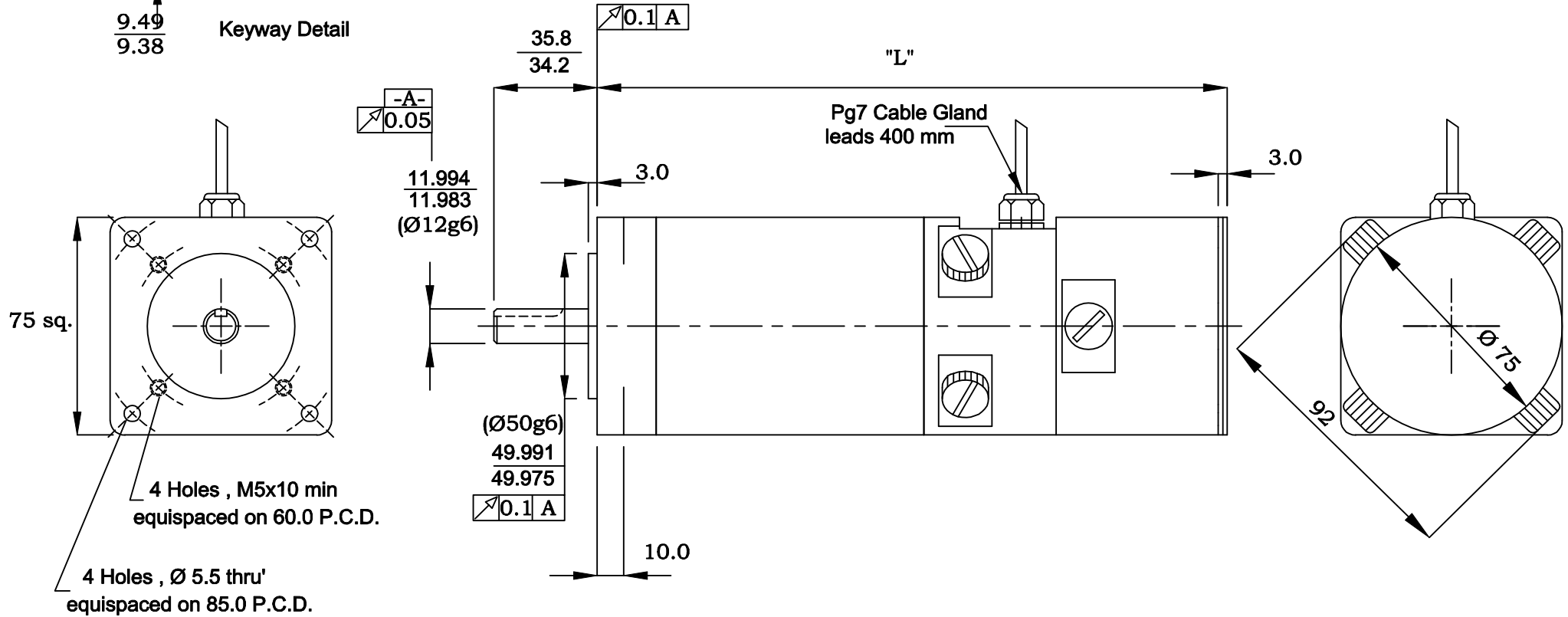
Tolerances.						Scale :	Material :		Weight :
X.X = ± 0.3 mm						NTS	Remove all burrs and sharp corners		Outline - Rare Earth Magnet Servomotor
X.XX = ± 0.1 mm									
Ang. Dim. = ± 1°						M4-200X-00000-000			
Date						M4-200X-00000-000			
Name						Sheet			
Drawn						1			
App'd						of 1			
Norm									



Keyway Detail



Motor Part Number	Length "L"
M4-2003x-00001-000	159
M4-2004x-00001-000	177
M4-2005x-00001-000	196
M4-2006x-00001-000	214



Notes :-

- With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor. With this rotation, a positive voltage shall be generated on black lead of tach with respect to white lead.
- Motor can be mounted in any position.

Tolerances.						Scale :	Weight :	
X.X = ± 0.3 mm						NTS		
X.XX = ± 0.1 mm								
Ang. Dim. = ± 1°						Material :		
						Remove all burrs and sharp corners		
						Outline - Rare Earth Magnet Servomotor		
						M4-200X-00001-000		
						M4-200X-00001-000		
						Sheet 1 of 1		

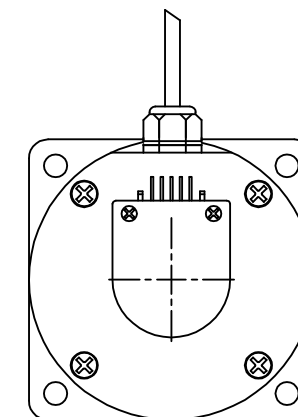
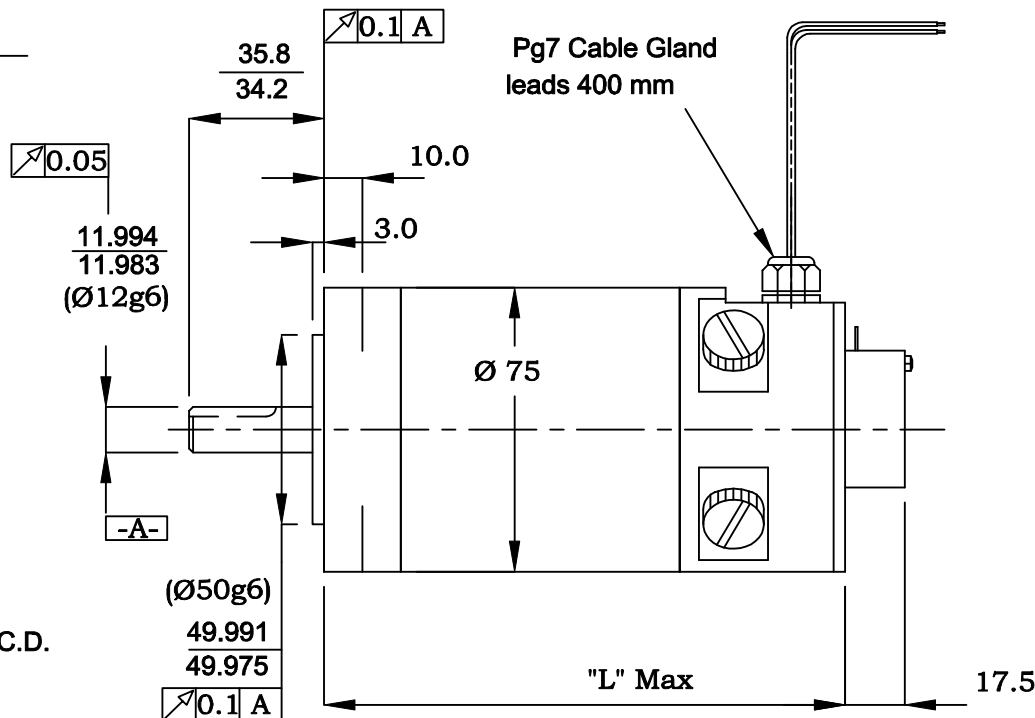
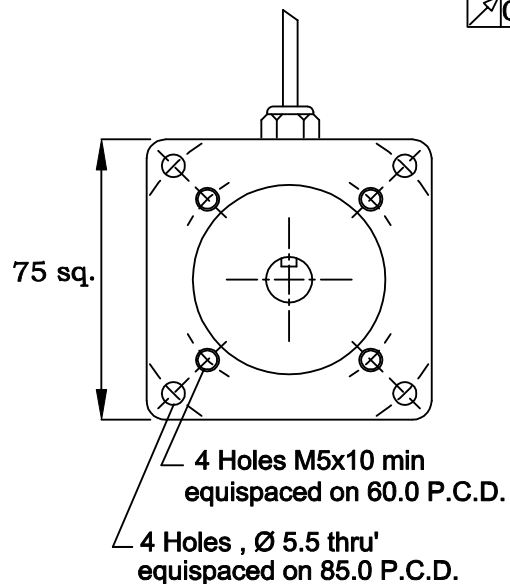
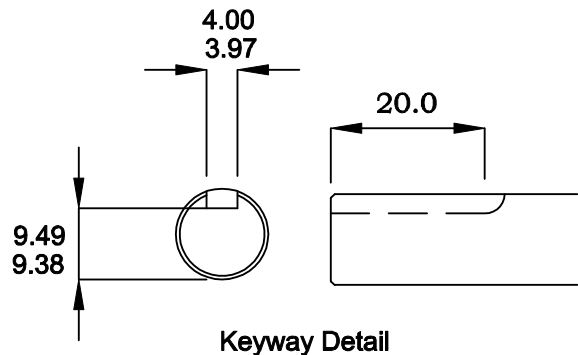
POWER LEAD CONFIGURATION

+ ve :- Green
 - ve :- Orange

ENCODER CONN. PINOUT

Pin 1 :- GND
 Pin 2 :- Index
 Pin 3 :- CH A
 Pin 4 :- +5V
 Pin 5 :- Ch B
 1024 ppr.

Part Number	Length "L"
M4-2003-0000F-000	103
M4-2004-0000F-000	121
M4-2005-0000F-000	140
M4-2006-0000F-000	158



Notes :-

1. With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor. With this rotation, encoder channel A leads channel B by 90° elec.
2. Motor can be mounted in any position.
3. Encoder 2 channel (A quad B) & index TTL output, accepts locking shell (AMP #87175-2) & 5 pins (AMP# 87165-1)

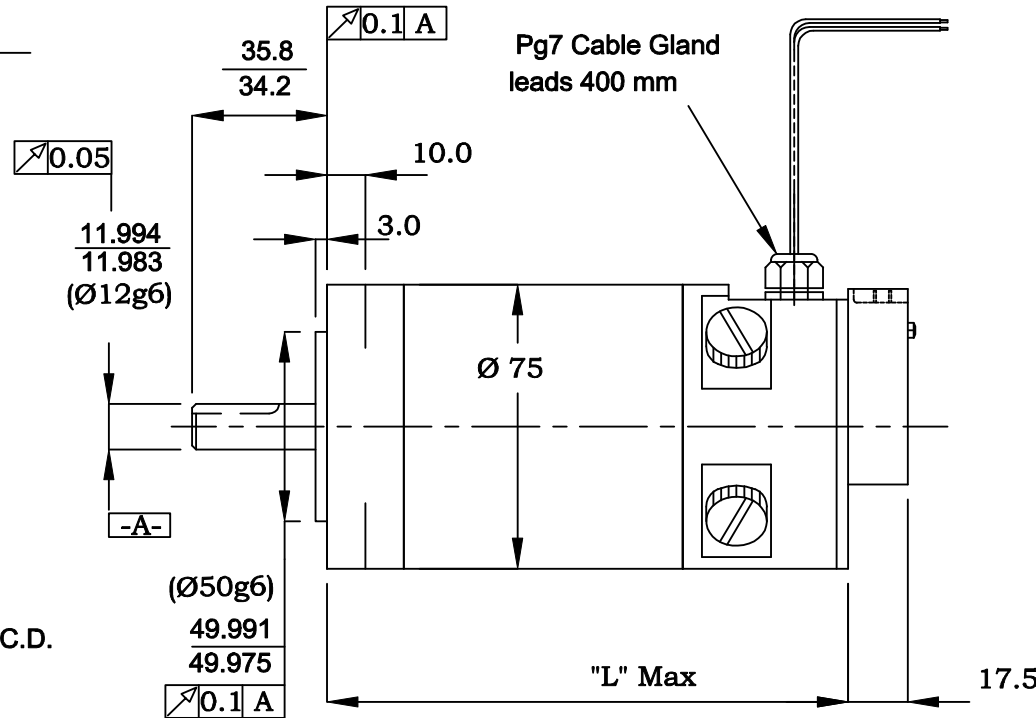
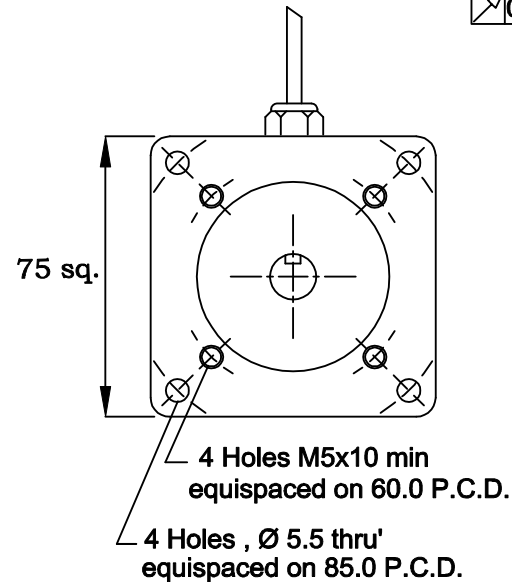
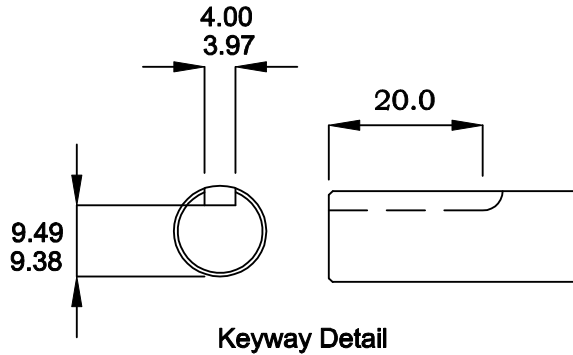
					Tolerances.		Scale :	Weight :		
					X.X = ± 0.3 mm		NTS			
					X.XX = ± 0.1 mm		Material :			
					Ang. Dim. = ± 1°		Remove all burrs and sharp corners			
					Date	Name	Outline - Rare Earth Magnet Servomotor with Single Ended Modular Encoder			
					Drawn	26/6/06				POB
					App'd	26/6/06				POB
1	Issue	ECO. No.	Date	Name	App'd	Norm	M4-200X-0000F-000			
										Sheet
							1			
							of 1			

POWER LEAD CONFIGURATION

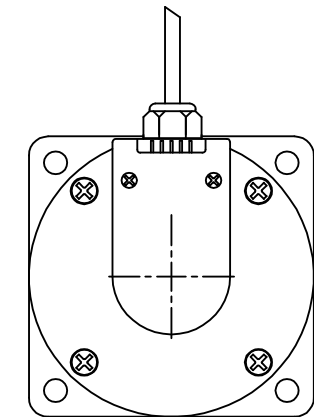
+ ve :- Green
 - ve :- Orange

ENCODER CONN. PINOUT

Pin 1 :- GND Pin 6 :- Ch A+
 Pin 2 :- GND Pin 7 :- +5V
 Pin 3 :- Index- Pin 8 :- +5V
 Pin 4 :- Index+ Pin 9 :- Ch B-
 Pin 5 :- Ch A- Pin 10 :- Ch B+
 1024 ppr.



Part Number	Length "L"
M4-2003-0000Q-000	103
M4-2004-0000Q-000	121
M4-2005-0000Q-000	140
M4-2006-0000Q-000	158



Notes :-

1. With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor. With this rotation, encoder channel B leads channel A by 90° elec.
2. Motor can be mounted in any position.
3. Encoder 2 channel differential (A quad B) with index. Internal differential linedriver (26C31) can source/sink 20mA at TTL levels. Accepts shell (AMP #102537-3) & 10 pins (AMP# 102694-3) with back cover (AMP #102536-3)

						Tolerances. X.X = ± 0.3 mm X.XX = ± 0.1 mm Ang. Dim. = ± 1°		Scale : NTS		Weight :
						Date	Name	Material :		
						Drawn	26/6/06	Remove all burrs and sharp corners		
						App'd	26/6/06	Outline - Rare Earth Magnet Servomotor with Differential Modular Encoder		
1						Norm		M4-200X-0000Q-000		Sheet 1 of 1
Issue	ECO. No.	Date	Name	App'd	Norm					

POWER LEAD CONFIGURATION

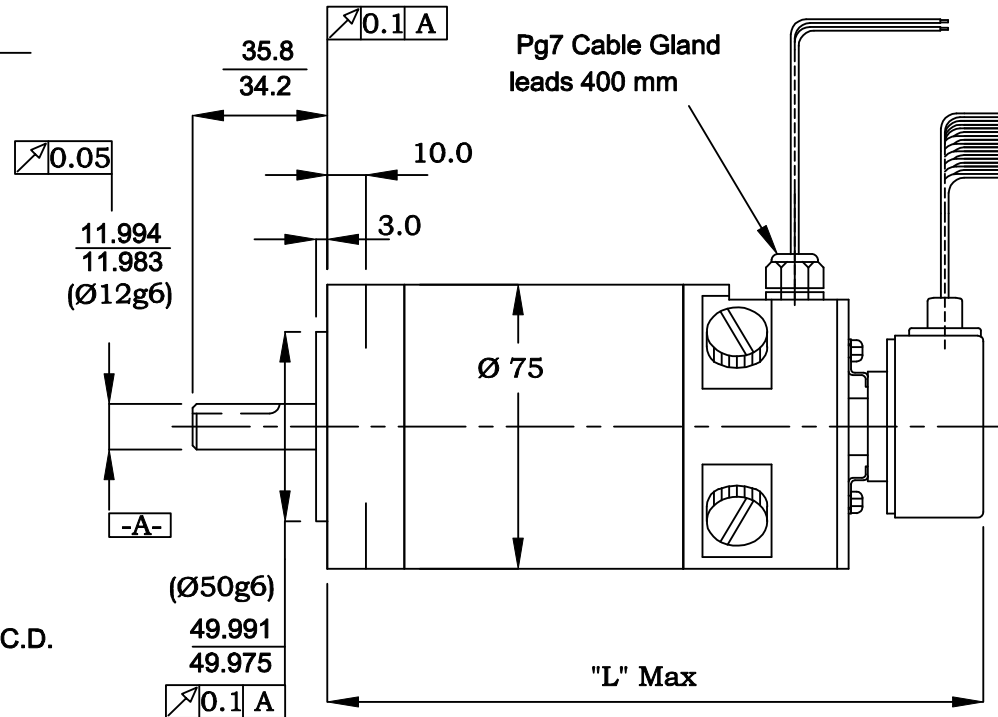
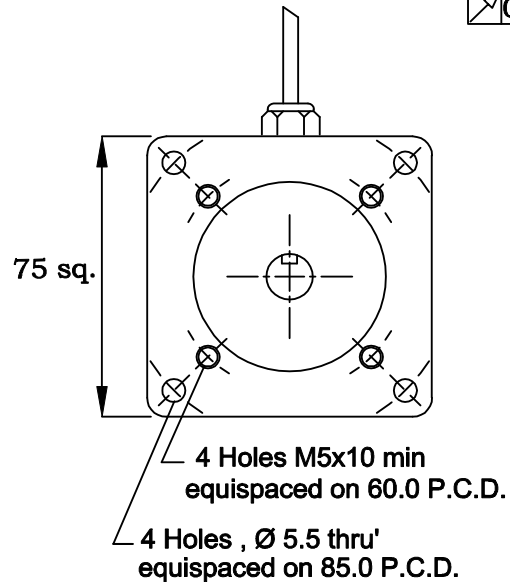
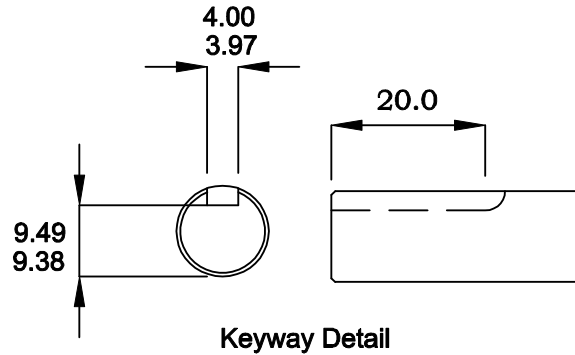
+ ve :- Green
- ve :- Orange

ENCODER CONN. PINOUT

Red :- + 5 V DC
Black :- GND
Blue :- CH A
Blue/Black :- CH A (INV)

Green :- CH B
Green/Black : CH B (INV)
Yellow : CH Z
Yellow/Black: CH Z (INV)

2048 ppr.

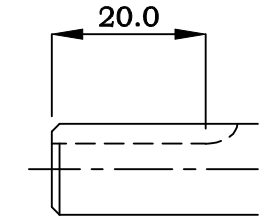
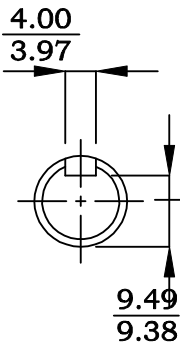


Part Number	Length "L"
M4-2003-0000V-000	138
M4-2004-0000V-000	156
M4-2005-0000V-000	175
M4-2006-0000V-000	193

Notes :-

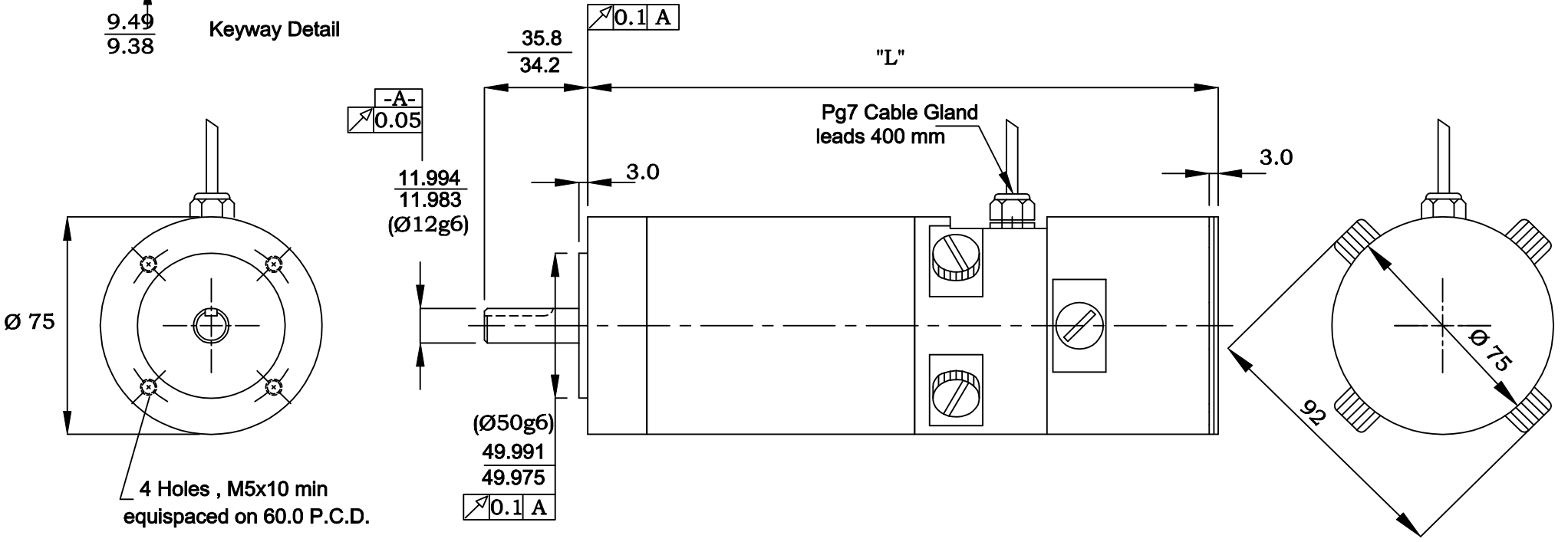
- With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor. With this rotation, encoder channel B leads encoder channel A by 90° electrical.
- Motor can be mounted in any position.

						Tolerances. X.X = ± 0.3 mm X.XX = ± 0.1 mm Ang. Dim. = ± 1°		Scale : NTS		Weight :	
						Date 26/6/06		Name POB		Material :	
						Drawn		App'd		Remove all burrs and sharp corners	
						Norm				Outline - Rare Earth Magnet Servomotor M4-200X-0000V-000	
Issue						ECO. No.		Date		Name	
										M4-200X-0000V-000	
										Sheet 1 of 1	



Keyway Detail

Motor Part Number	Length "L"
M4-2003x-10001-000	159
M4-2004x-10001-000	177
M4-2005x-10001-000	196
M4-2006x-10001-000	214



4 Holes , M5x10 min
equispaced on 60.0 P.C.D.

Notes :-

1. With a positive current applied to green lead with respect to orange lead of motor, rotation shall be clockwise facing mounting end of motor.
With this rotation, a positive voltage shall be generated on black lead of tach with respect to white lead.
2. Motor can be mounted in any position.

						Tolerances.		Scale :		Weight :	
						X.X = ± 0.3 mm		NTS			
						X.XX = ± 0.1 mm		Material :			
						Ang. Dim. = ± 1°		Remove all burrs and sharp corners			
						Date	Name	Outline - Rare Earth Magnet Servomotor			
						1/11/08	POB				
1											
Issue	ECO. No.	Date	Name	App'd	Norm			M4-200X-10001-000			Sheet
											1
								M4-200X-10001-000			of 1