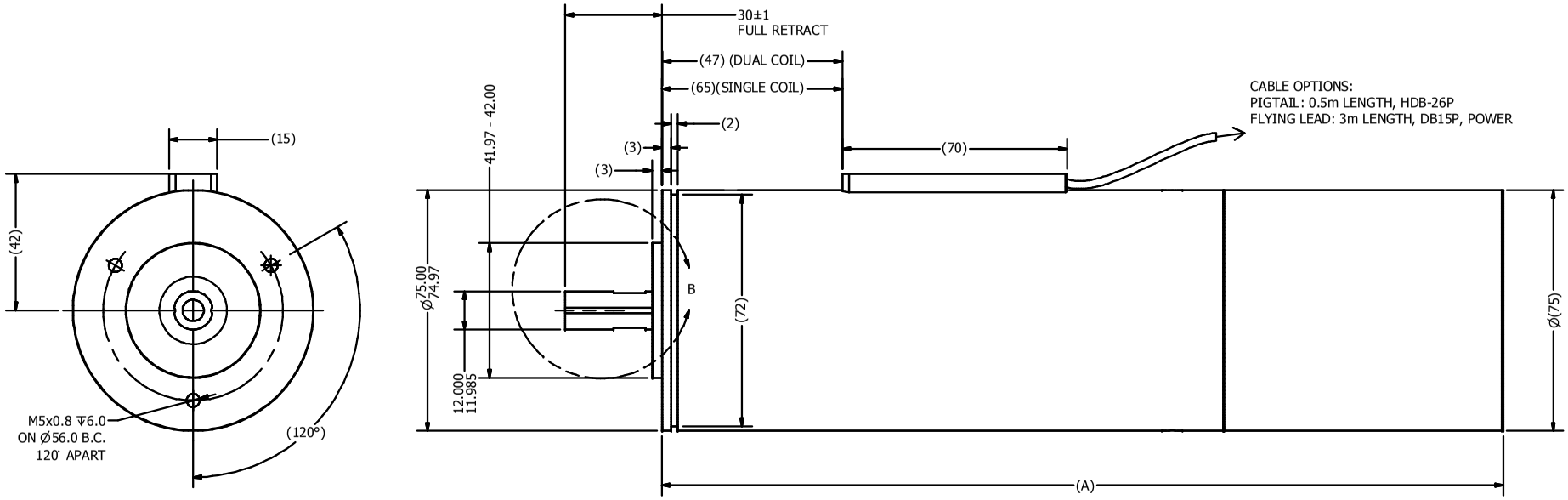
REVISION HISTORY				
REV	DATE	ECN	DESCRIPTION	APPROVED
A	6/08/2009		new	
B	8/3/09		CORRECT SPEC TABLE, ADD DUAL COIL	
C	1/11/2010		REVISE TO CURRENT DIMENSIONS	
C.1	3/1/2010		ADD CONNECTOR PINOUTS, 24V DUAL	
D	8/8/2012		SLE ENCODER	KGS

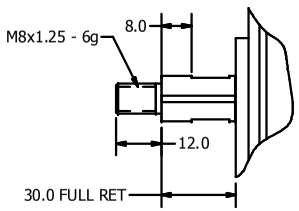
LINEAR SPECIFICATIONS:

STROKE SPEC +1/-0

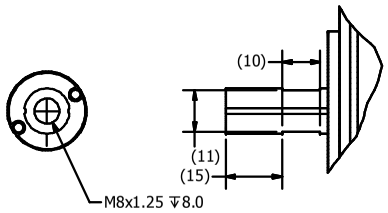
ENCODER RESOLUTION: 5.0, 1.0, 0.5, 0.1 µM
DIFFERENTIAL TTL
OPERATING TEMP: 0°TO 65°C
ALL DIMENSIONS ARE IN mm



CABLE OPTIONS:
PIGTAIL: 0.5m LENGTH, HDB-26P
FLYING LEAD: 3m LENGTH, DB15P, POWER



MALE
SHAFT
DETAILS



FEMALE SHAFT
SPECIFICATIONS

DB 26P PINOUT	
#	FUNCTION
1	(AXIS 1) PH A+
2	(AXIS 1) PH B+
3	(AXIS 1) PH Z+
4	NC
5	NC
6	I/O RTN
7	NC
8	NC
9	NC
10	(AXIS 1) PH A-
11	(AXIS 1) PH B-
12	(AXIS 1) PH Z-
13	NC
14	NC
15	NC
16	NC
17	NC
18	NC
19	+5VDC
20	5V RTN
21	(AXIS 1) COIL +
22	(AXIS 1) COIL +
23	(AXIS 1) COIL -
24	(AXIS 1) COIL -
25	NC
26	NC

DB-15P PINOUT	
PIN No.	FUNCTION
1	PH. A+
2	PH. Z+
3	PH. B+
4	+5V
5	NC
6	NC
7	NC
8	NC
9	PH.A-
10	PH. Z-
11	PH. B-
12	5V RTN

POWER	
PIN No.	FUNCTION
1	V RTN
2	V+
3	COIL +
4	COIL -

Description	15-SINGLE		25-SINGLE		25-dual		50-SINGLE		50-DUAL	Units
Vdc	24	48	24	48	24	48	24	48	48	Volts
DC Resistance	17.8	35.6	17.8	35.6	9	18	17.8	35.6	18	Ohm±5%
Peak Force	40	62	27	53	46	80	25	40	126	N
F/A	31	48	22	44	17	30	19	32	47	N/Amp
Max. Current	1.3	1.3	1.3	1.3	2.7	2.7	1.3	1.3	2.7	Amp
Moving Mass	0.44	0.44	0.44	0.44	0.66	0.66	0.44	0.44	0.66	Kg
Total Mass	4.8	4.8	5.1	5.1	5.9	5.9	5.6	5.6	7.3	Kg
A	255	255	265	265	316	316	290	290	366	mm

TOLERANCES ARE:
X. ± 0.50
X.X ± 0.1
X.XX ± 0.05
X.XXX ±
ANGULARITY ± 0.1°
CONCENTRIC ± 0.01
ROUNDNESS ± 0.05
EDGE BREAK 0.02 MAX
CHAMFER 0.03 MAX

FILE NAME: CAL75-XXX-3A OUTLINE_C1.idw

MATERIAL:
HEAT TREATMENT:
MACHINE FINISH: 3.2 EXCEPT NOTED
PROTECTIVE FINISH:
SPEC. NUMBER:

SMAC

REF. NUMBER

DESIGNED BY:	DATE:	CHECKED BY:	DATE:	CONTRACT:
DRAWN BY: KARL STOCKS	DATE: 10/14/2010	APPROVED BY:	DATE:	CAL75

PART NAME: **CAL75-0XX-XX-3A**

SHEET NUMBER: 1 OF 1

SCALE: DO NOT SCALE DWG
DWG SIZE: C
PART NUMBER:
REVISION: C.1

C:\smac-cad\CA\CA OUTLINES\CAL75-XXX-3A OUTLINE_C1.idw