

Project N/A		Designer DB 6/13/2001		Check ES 6/13/2001		Approved RL 6/13/2001	
OVALS ARE FOR INCOMING INSPECTION CHECKING PROCESSES		TOLERANCES IN INCHES		TOLERANCES IN MM		MATERIAL SPEC N/A	
		1 PLACE DEC. = N/A 2 PLACE DEC. = ±.01 3 PLACE DEC. = ±.005 4 PLACE DEC. = ±.0025 ANGULAR DIM. = ± 1'		±0.25 ±0.13 ±0.08 N/A ± 1'		FINISH SPEC N/A	
		DO NOT SCALE DRAWING WORK TO GIVEN DIMENSIONS BREAK SHARP EDGES & REMOVE ALL BURRS EXCEPT AS NOTED		THIS DRAWING IS THE SOLE PROPERTY OF AM EQUIPMENT AND CANNOT BE REPRODUCED IN ANY WAY WITHOUT THE EXPRESS WRITTEN PERMISSION OF AM EQUIPMENT		Title/Name Motor, Ind, 18Nm, 12V, LH Housing, 11mm Shaft Dia, 64mm Shaft Length, PM Gear	
		AM EQUIPMENT www.amequipment.com		Part Number 218-1003		Revision 1 11/14/2008	
				Sheet 1 OF 2			

DIMENSIONS ARE IN:
MILLIMETERS

1

2

1

2

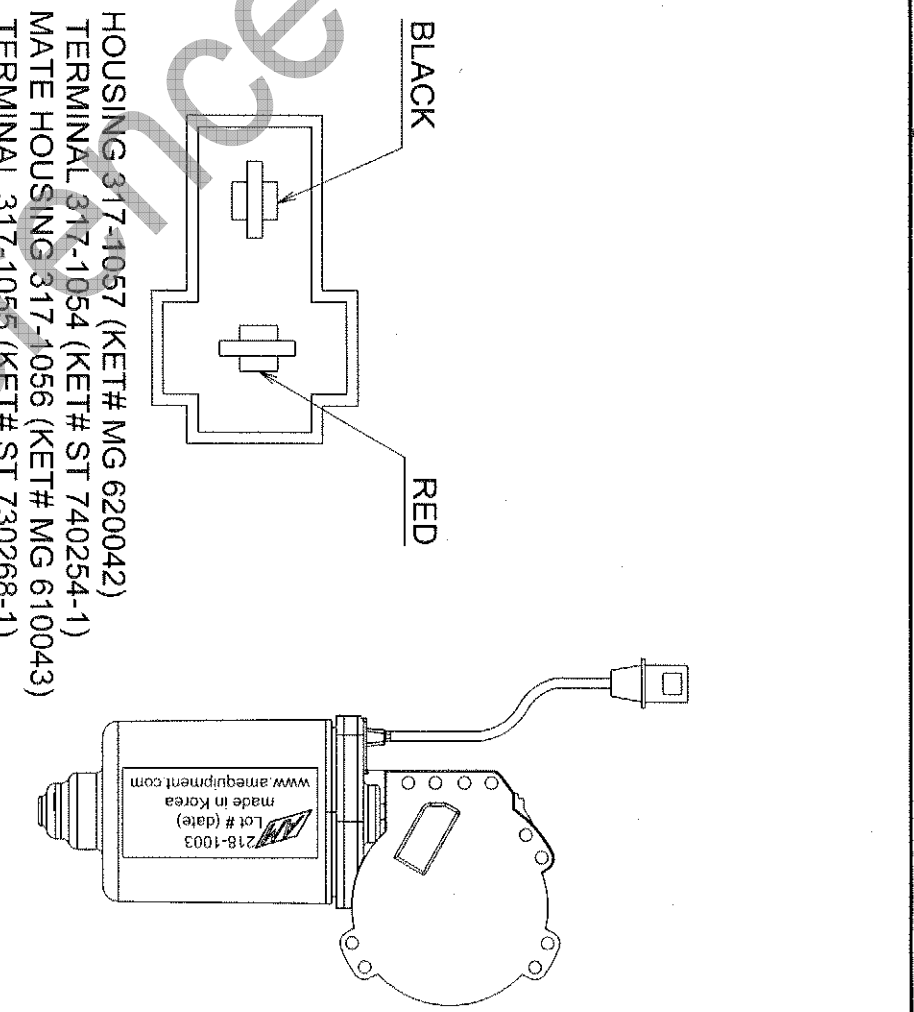
B

A

B

A

COUNTER-CLOCKWISE MOTOR SHAFT ROTATION		
DATA POINT	DATA TYPE	VALUE RANGE
NO LOAD	CURRENT (A)	1.7 - 1.4
	SPEED (rpm)	116.2 - 95.1
STALL LOAD	TORQUE (Nm)	21.3 - 17.5
	CURRENT (A)	36.0 - 29.4
PEAK POWER	POWER (W)	60.0 - 49.1
	TORQUE (Nm)	11.1 - 9.1
NOMINAL (PEAK EFFICIENCY)	POWER (W)	36.5 NOMINAL
	SPEED (rpm)	82.1 NOMINAL
	CURRENT (A)	7.0 NOMINAL
	TORQUE (Nm)	4.3 NOMINAL
CLOCKWISE MOTOR SHAFT ROTATION		
DATA POINT	DATA TYPE	VALUE RANGE
NO LOAD	CURRENT (A)	1.6 - 1.3
	SPEED (rpm)	113.5 - 92.9
STALL LOAD	TORQUE (Nm)	20.6 - 16.9
	CURRENT (A)	35.7 - 29.2
PEAK POWER	POWER (W)	55.5 - 45.4
	TORQUE (Nm)	10.5 - 8.6
NOMINAL (PEAK EFFICIENCY)	POWER (W)	34.3 NOMINAL
	SPEED (rpm)	79.6 NOMINAL
	CURRENT (A)	7.4 NOMINAL
	TORQUE (Nm)	4.2 NOMINAL



HOUSING 317-1057 (KET# MG 620042)
 TERMINAL 317-1054 (KET# ST 740254-1)
 MATE HOUSING 317-1056 (KET# MG 610043)
 TERMINAL 317-1055 (KET# ST 730268-1)
 BLACK (+), RED (-) = CCW
 RED (+), BLACK (-) = CCW

- NOTES:**
1. TORQUE BULL GEAR NUT TO 20Nm +2.0 WITH WICKING GRADE THREAD LOCKER
 2. ARMATURE SHAFT SURFACE FINISH Rz = 1.60um MAX
 3. GREASE 15cc GS CALTEX (GS LIPLIX 2) PER MOTOR TO GEAR HOUSING

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	1 PLACE DEC. =	N/A	± 0.25
	2 PLACE DEC. =	± .01	± 0.13
	3 PLACE DEC. =	± .005	± 0.08
4 PLACE DEC. =	± .0025	N/A	± 1'
ANGULAR DIM = ± 1'			
DO NOT SCALE DRAWING WORK TO GIVEN DIMENSIONS BREAK SHARP EDGES & REMOVE ALL BURRS EXCEPT AS NOTED			

MATERIAL SPEC
N/A

FINISH SPEC
N/A

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Part Number 218-1003	Revision 1	Sheet 2 OF 2
Date 1/14/2008		