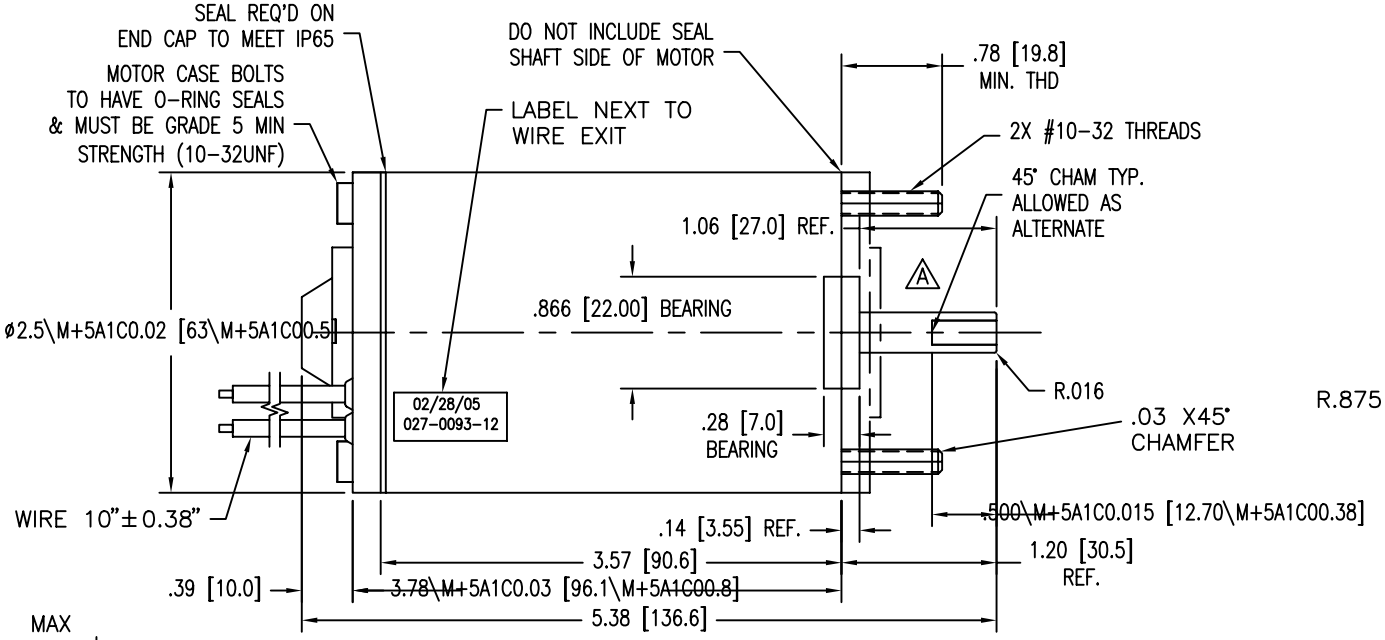
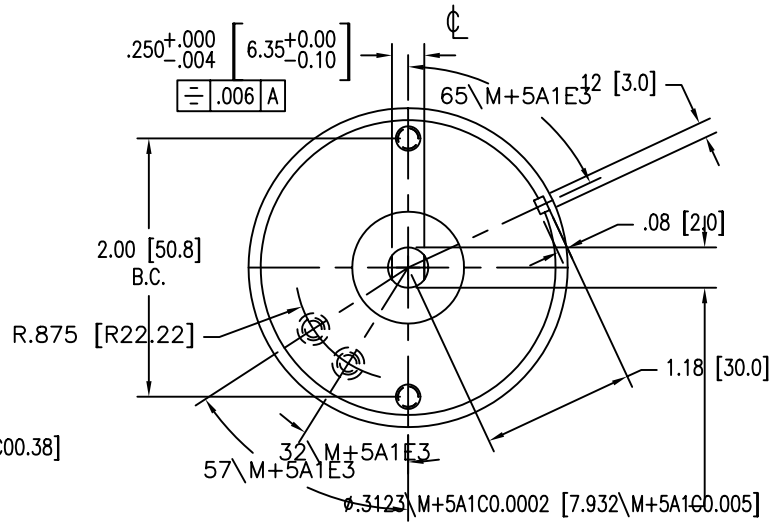
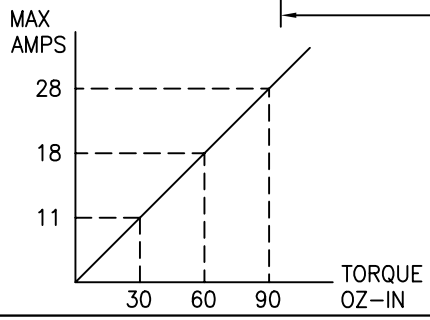
GENERAL MOTOR SPECIFICATIONS:

1) 12VDC BRUSH – BI–DIRECTIONAL, (WITH 24, 36 & 48VDC OPTIONS)
2) 60 OZ–IN RATED TORQUE (11T/19GA)
3) 4200 RATED NO–LOAD RPM*
4) DUSTPROOF & WEATHERPROOF ENCLOSURE IP65 MIN
5) CURRENT SPEED PER PROFILE BELOW
6) 10IN ± 1.0" LEAD WIRE LENGTH 14AWG. ONE GREY, ONE BLACK, UL STYLE 1230 WIRE W/PVC INSULATION. BOTH WIRES MUST BE WITHIN 1/8" OTHER. BOTH WIRES STRIPPED .125/.156" BACK
7) LEADS EXITING FROM REAR SIDE WITH WEATHER TIGHT FEED THRU. IP65 CAPABLE
8) CLASS F 105°C MIN RATING
9) BALL BEARINGS BOTH SHAFT ENDS
10) SHAFT MATERIAL C1144 OR EQUIVALENT
11) 0.030IN MAX SHAFT ENDPLAY
12) MOTOR MUST BE CORROSION PROTECTED TO MEET 96 HR SALT SPRAY MIN–PREFER POLYESTER TGIC POWDER PAINT
13) MAIN BODY AND BACK END CAP OF MOTOR TO BE BLACK IN COLOR
14) MOTOR TO INCLUDE AUTO RESET THERMAL LIMIT SWITCH. REF. INFO: (200°F THRESHOLD LOAD 80 AMP, TRIP TIME 5.5–11.5 SEC. RESET TIME 1–10 SEC)
15) VENDOR I.D. TO BE PLACED AS SHOWN
16) MOTOR AND WIRE LEAD INSULATION MUST BE ABLE TO FUNCTION WITHOUT LOSS OF PERFORMANCE AFTER BEING EXPOSED TO EACH OF THE FOLLOWING INDIVIDUAL CONTAMINANTS LISTED BELOW AND ALL OWED TO SOAK FOR A MINIMUM OF 5 MINUTES.
    PHOSPHATE WASH
    WINDSHIELD WASHER FLUID
    JOHN DEERE TORQ GUARD 10W20 MOTOR OIL OR EQUIVALENT
    JOHN DEERE J14B HYDRAULIC OIL OR EQUIVALENT
    #2 DIESEL FUEL
    BATTERY ACID 1.26–1.28 SPECIFIC GRAVITY APPROXIMATELY 35–38% SULFURIC ACID BY WEIGHT
    SALT SOLUTION OF 5% PURE SALT IN DE–MINERALIZED WATER
    FERTILIZER CONTAINING 28% NITROGEN
    ANTIFREEZE SOLUTION OF 50% CONSUMER AVAILABLE 50% ANTIFREEZE AND 50% TAP WATER
    MUD SPLASH OF 50% FINE GRAINED SOIL AND 50% TAP WATER







SPECS:
RATED VOLT: 12VDC
NON–LOAD APM: < 1.5A
* NON–LOAD SPEED: 4700 RPM ± 12%
RATED TORQUE: 60 OZ.IN (0.424 N.M)
RATED POWER: 140W
RATED SPEED: 3320 RPM ± 10%
RATED AMP: 18.8A

A LOCATION OF BEARING PRESSED ON SHAFT

UNLESS OTHERWISE SPECIFIED
ALL DIMENSIONS ARE IN INCHES
INTERPRET DIM AND TOL PER ASME Y14.5M – 1994
TOLERANCES:
DECIMALS: .XX ±.010, .XXX ±.005, .XXXX ±.0005
FRACTIONAL ± 1/32
ANGULAR ± 30'
BREAK ALL EDGES
ALL HOLES CHAMFERED .01X45°
SURFACE ROUGHNESS: 125 µIN BEFORE PLATING
THIRD ANGLE PROJECTION

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HALLMARK INDUSTRIES, INC.
733 BROOKDALE DRIVE, SCHAUMBURG, IL 60194 PHONE: (847)882–8821 FAX: (847)882–5658

TITLE: DC MOTOR, 2.47" DIA
60 OZ.IN, 4700RPM
027–0093

DRAWN	DRAWN DATE	CHECKED	CHECK DATE
T. ZHUN	6/28/04	JN	

SIZE	DWG NO.	REV
B	MD0190X	–

SCALE	CUST. NO.	SHEET
1:1		1 OF 1