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DII15-60-007Z

X3

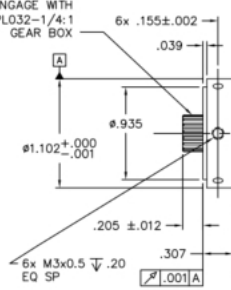
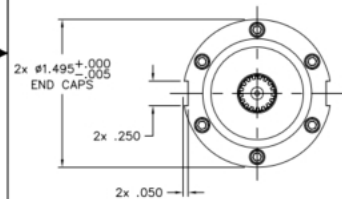
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WINDING CONSTANTS	UNITS	TOL	SYM	WDG Z
DC RESISTANCE	OHMS	±12.5%	R	1.90
VOLTAGE @ T_p	VOLTS	NOMINAL	V_p	11.23
CURRENT @ T_p	AMPERES	NOMINAL	I_p	5.9
TORQUE SENSITIVITY	OZ IN/AMP	±10%	K_T	11.0
BACK EMF CONSTANT	VOLTS/(RAD/SEC)	±10%	K_B	0.078
INDUCTANCE	MILLIHENRY	±30%	L	1.85

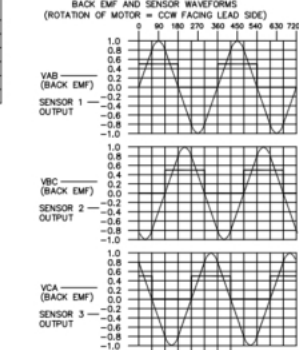
MOTOR PARAMETERS	UNITS	SYM	VALUE
PEAK TORQUE *	OZ IN	T_p	65.0
CONTINUOUS STALL TORQUE **	OZ IN	T_{cs}	32.0
MOTOR CONSTANT	OZ IN/√WATT	K_M	7.98
ELECTRICAL TIME CONSTANT	MILLISECOND	τ_e	0.97
MECHANICAL TIME CONSTANT	MILLISECOND	τ_m	2.21
POWER IN @ T_p	WATTS	P_p	66.0
DAMPING FACTOR (ZERO IMPEDANCE)	OZ IN/(RAD/SEC)	F_D	0.45
FRICTION TORQUE	OZ IN	T_f	5.0
ROTOR INERTIA	OZ IN SEC ²	J_M	0.001
MAX ALLOWABLE SPEED	RPM	S_M	3100
SPEED @ 15 OZ IN & 24 VDC	RPM	S_L	2630
THEO ACC @ T_p	RAD/SEC ²	α_T	6.5×10^4
THERMAL RESISTANCE ***	°C/WATT	θ_{TH}	5.4
MAX ALLOWABLE WINDING TEMP	°C	TEMP	220
PHASES/WINDING TYPE			3/2Y
POLES			4
WEIGHT	OZ	W_T	TBD

* 10 SEC @ 25°C AMBIENT TEMP
 ** 25°C AMBIENT, 220° WINDING TEMP
 *** WITH 6 X 6 X .125 THICK AL HEAT SINK

GEAR TO ENGAGE WITH
 GYSIN GPL032-1/4:1
 GEAR BOX



MOTOR LEADS	SENSOR LEADS
A	1
B	2
C	3
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	99
	100



COLOR	1	2	3	4	5	6
GRAY	+	+	+	+	+	+
BLU	+	+	+	+	+	+
GRN	+	+	+	+	+	+
RED	+	+	+	+	+	+
YEL	+	+	+	+	+	+
WHT	+	+	+	+	+	+
BLK	+	+	+	+	+	+
BRN	+	+	+	+	+	+
PUR	+	+	+	+	+	+
SLV	+	+	+	+	+	+
TRF	+	+	+	+	+	+
OPR	+	+	+	+	+	+
CRN	+	+	+	+	+	+
ORG	+	+	+	+	+	+
TEAL	+	+	+	+	+	+
MAU	+	+	+	+	+	+
SLV	+	+	+	+	+	+
WHT	+	+	+	+	+	+
BLK	+	+	+	+	+	+
BRN	+	+	+	+	+	+
PUR	+	+	+	+	+	+
SLV	+	+	+	+	+	+
TRF	+	+	+	+	+	+
OPR	+	+	+	+	+	+
CRN	+	+	+	+	+	+
ORG	+	+	+	+	+	+
TEAL	+	+	+	+	+	+
MAU	+	+	+	+	+	+
SLV	+	+	+	+	+	+
WHT	+	+	+	+	+	+
BLK	+	+	+	+	+	+
BRN	+	+	+	+	+	+
PUR	+	+	+	+	+	+
SLV	+	+	+	+	+	+
TRF	+	+	+	+	+	+
OPR	+	+	+	+	+	+
CRN	+	+	+	+	+	+
ORG	+	+	+	+	+	+
TEAL	+	+	+	+	+	+
MAU	+	+	+	+	+	+
SLV	+	+	+	+	+	+
WHT	+	+	+	+	+	+
BLK	+	+	+	+	+	+
BRN	+	+	+	+	+	+
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SLV	+	+	+	+	+	+
TRF	+	+	+	+	+	+
OPR	+	+	+	+	+	+
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TEAL	+	+	+	+	+	+
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SLV	+	+	+	+	+	+
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BRN	+	+	+	+	+	+
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SLV	+	+	+	+	+	+
TRF	+	+	+	+	+	+