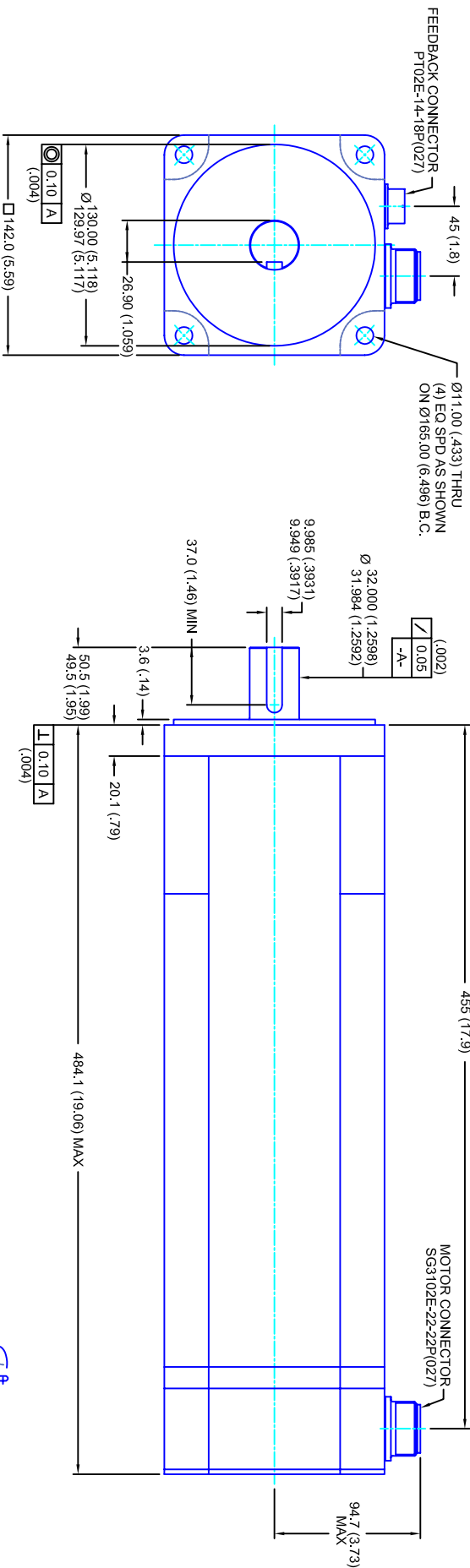


REVISIONS		
REV	DESCRIPTION	DATE
1	RELEASE DRAWING	7/14/04



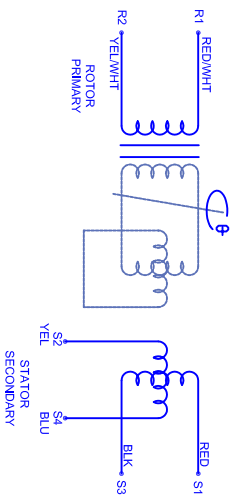
- NOTES:**
1. MILLIMETERS (INCHES)
 2. AXIAL LOAD: 23 KG [50 LBS] MAX
 3. RADIAL LOAD: 68 KG [150 LBS] MAX @ 25.4MM [1.00] FROM FACE
 4. MOTOR SEALED TO IP65
 5. MOTOR SHAFT: 416 STAINLESS STEEL
 6. MOTOR FINISH: BLACK MATT FINISH
 7. MOTOR WEIGHT: 36.6 KG [85 LBS]

ELECTRICAL DATA		
MOTOR PARAMETERS	UNITS/MEASURE	VALUES
VOLTAGE	VOLTS-AC	460
AMP TYPE	-	SINE
HORSEPOWER	Hp	12.4
KILOWATTS	KW	9.3
MAX OPERATING SPEED	RPM	3400
SPEED @ RATED TORQUE	RPM	2800
*CONTINUOUS RATED TORQUE @ 2800 RPM	IN-LBS(INm)	280(1.6)
*CONTINUOUS STALL TORQUE	IN-LBS(INm)	360(4.7)
CONTINUOUS LINE CURRENT	AMPS(RMS/Φ)	19.7
PEAK TORQUE	IN-LBS(INm)	108(122.1)
PEAK CURRENT	AMPS(RMS/Φ)	59.1
MAX THEORETICAL ACCEL.	RAD/SEC ²	29.216
TORQUE SENSITIVITY	KI [IN-LBS/AMP(RMS/Φ)]/min[AMP(RMS/Φ)]	18.3(2.06)
BACK EMF (LINE TO LINE)	Vrms/Krpm	115
D.C. RESISTANCE (P-P)	OHMS	.22
INDUCTANCE (P-P)	MILLIHENRIES	1.9
ROTOR INERTIA	IN-LBS-SEC ² [Kg-M ²]	.0370(.00418)
STATIC FRICTION	TF	4.2(0.47)

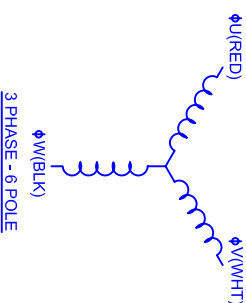
CONNECTION CHART

PT02E-14-18P(027)		
REST/TERM WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PIN	WIRE FUNCTION	WIRE COLOR
A	-	-
B	-	-
C	-	-
D	RES SHLD	WHT/BLK
E	REF	RED/WHT
F	SIN GND	YEL
G	COS GND	BLK
H	SIN	BLU
J	-	-
K	-	-
L	-	-
M	-	-
N	TERM	WHT
P	-	-
R	REF GND	YEL/WHT
S	COS	RED
T	-	-
U	TERM	WHT

SG3102E-22-22P(027)		
MOTOR WIRE LEADS	WIRE FUNCTION	WIRE COLOR
PIN	WIRE FUNCTION	WIRE COLOR
A	ΦU	RED
B	ΦV	WHT
C	ΦW	BLK
D	PE GND	GRN/YEL



SCHEMATIC FOR BRUSHLESS RESOLVER



TOLERANCES UNLESS SPECIFIED			
BORER:	= H12	= R4	✓
DECIMAL .xxx	± .12 (.005)		
DECIMAL .xx	± .25 (.010)		
DECIMAL .x	± .51 (.020)		
ANGLES (MM/INCHES)	± .40 (.016)		
REMOVE ALL BURRS, BREAK SHARP EDGES, 25 MIN (0.10")			
FINISH:			
WATERL:			
CUSTOMER: -	DATE	DRAWING NO.	REV.
1/2:1	2/29/04	CM1424R115MKRCS	1



142MM - 4 STK
460V/KE=115MET/RES/CONN