

DRAWING No. 45120 - H  
 ISSUE THE DRAWING AND DESIGN ARE THE PROPERTY OF WESTWIND AIR BEARINGS. THEY REMAIN AT ALL TIMES THEIR PROPERTY AND MUST NOT BE USED TO THE DETRIMENT OF THEIR INTERESTS.

DO NOT SCALE DRAWING

PROJECTION IF IN DOUBT ASK

DO NOT SCALE DRAWING

PREVIOUS MODIFICATIONS	MOD No.	DATE	MODIFICATION	ISSUE
ISS. MOD No.	52168	1.5.07		H
C	14.5.03		3 EQUISPACED HOLES M5 ON 1.496 PCD DELETED	
D	31.5.06		1 HOLE M5 ADDED	
E	15.6.06			
F	51379	3.11.06		

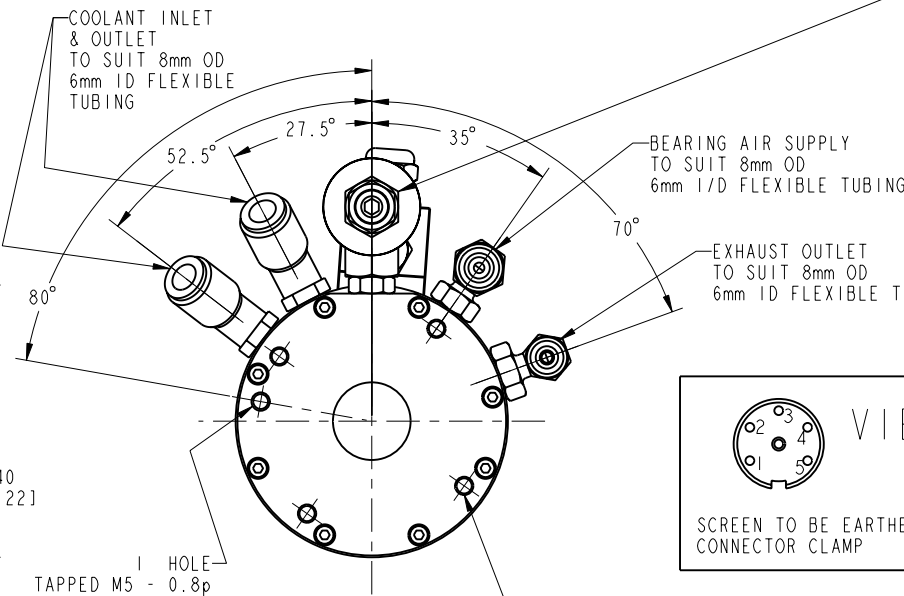
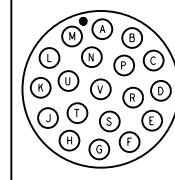
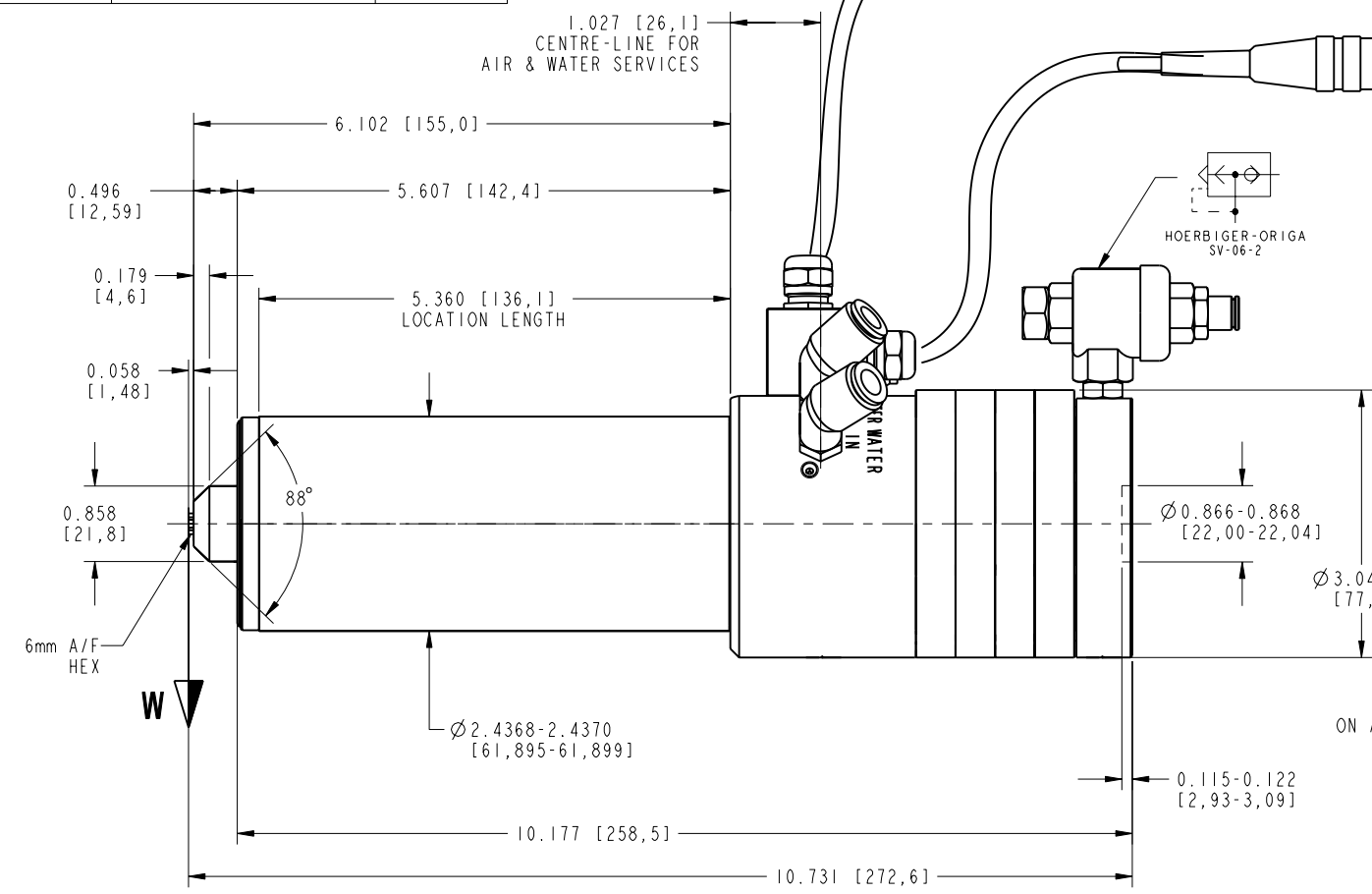
CUSTOMER APPROVAL	SIGNED	DATE

Issued

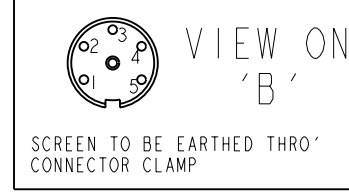
NOTE A:-  
 ELECTRICAL SUPPLY 0.8 METRES LONG CABLE  
 POWER=4-CORE 3-PHASE (WHITE, BLACK, BLUE)  
 EARTH=(GRN/YEL) FITTED WITH 19 WAY CONNECTOR  
 BURNDY UTG6-16-19PN

PIN No.	COLOUR	FUNCTION
G & B (LINKED)	BLACK	POWER 3 PHASE
F & C (LINKED)	WHITE	POWER 3 PHASE
D	BLUE	POWER 3 PHASE
V	GRN/YEL	POWER EARTH

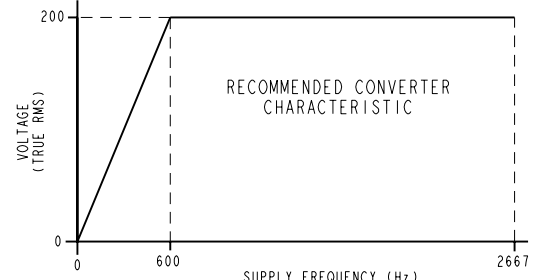
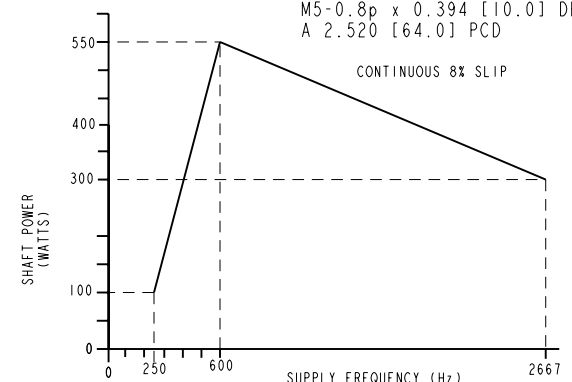
PREVIOUS MODIFICATIONS	ISS.	MOD. No.	DATE
G	51598	24.1.07	



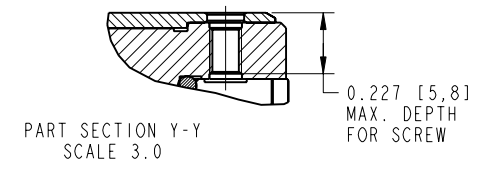
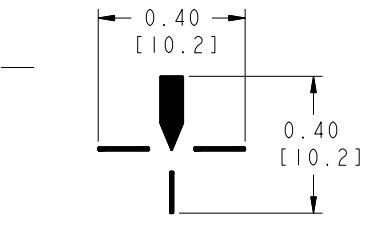
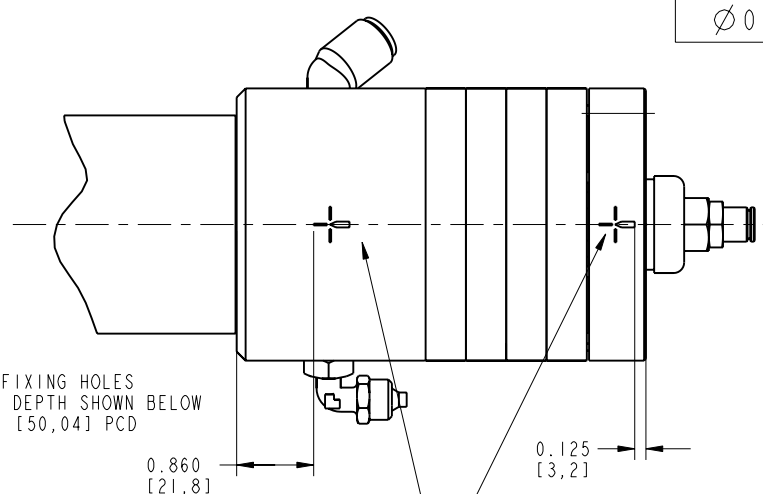
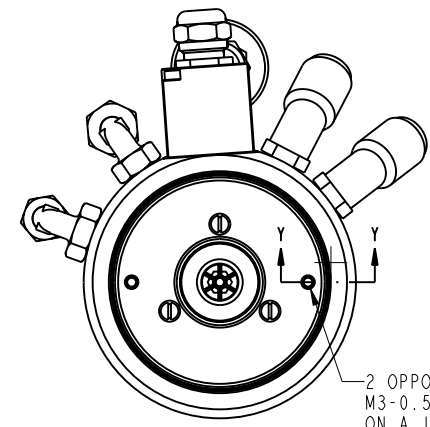
NOTE B:-  
 5-CORE SCREENED LEAD FOR INSTRUMENTATION 0.8M LONG  
 SPEED SENSOR  
 SIEMENS FP212L100-2  
 BLUE & GREEN TO +5V SUPPLY  
 WHITE SIGNAL  
 MOTOR THERMISTOR  
 SIEMENS P317-M135 (PTC)  
 RED & YELLOW



PIN No.	COLOUR	FUNCTION
1	WHITE	0V SPEED SENSOR
2	BROWN	+5V SPEED SENSOR
3	GREEN	+5V SIGNAL SPEED SENSOR
4	YELLOW	0V MOTOR THERMISTOR
5	GREY	SIGNAL MOTOR THERMISTOR



COLLET SIZE	W.W. PART No.
∅0.125"	48189



POSITION SYMETRICALLY ABOUT C/LINE [SEE ENLARGED DETAIL]

BASIC SPECIFICATION	IMPERIAL UNITS	METRIC UNITS
BEARING AIR SUPPLY PRESSURE	80 P.S.I.G.	5.4 BAR
AIR CONSUMPTION AT 80 P.S.I.G. (STATIC)	3.2 S.C.F.M.	91 Litres/min
AIR CONSUMPTION AT 80 P.S.I.G. (dynamic @ 150K)	2.7 S.C.F.M.	78 Litres/min
COOLING WATER FLOW	19.8 IMP. GALL/Hr	1.5 Litres/min
COOLING FLUID INLET TEMPERATURE		18 ± 1 °C
MAX. HEAT DISSIPATION TO COOLING WATER	1775 BTU/HOUR	520 WATTS
RADIAL FAILURE LOAD AT W (AT 150,000 RPM)	24 lbf	10.9 Kg
RADIAL STIFFNESS FROM AIR FILM IN PLANE W (AT 150,000 RPM)	90,000 lbs/inch	1.6 Kg/micron
AXIAL FAILURE LOAD (PUSH)	55 lbf	25 Kg
COLLET TORQUE (NEW)	30 lbf.in	0.35 Kg.m
MAXIMUM INPUT SPEED		160,000 RPM
COLLET ACTUATION PRESSURE	72-82 P.S.I.G.	5.5-5.8 Kg/cm <sup>2</sup>
APPROX. WEIGHT	12 lb	5.45 Kg
CONTINUOUS POWER @ 8% SLIP		550 WATTS @ 600Hz

ADDITIONAL DETAILED INFORMATION IS AVAILABLE ON REQUEST

GEOMETRIC TOLERANCE SYMBOLS	LIMITS			
CHARACTERISTIC	SYMBOL	CHARACTERISTIC	SYMBOL	LIMITS
STRAIGHTNESS	—	CYLINDRICITY	⊘	NOMINAL UNLESS STATED
ROUNDNESS	○	SQUARENESS	⊥	
PARALLELISM	∥	CONCENTRICITY	⊙	
ANGULARITY	∠	SYMMETRY	≡	
RUN OUT	↗	FLATNESS	▭	
TOTAL RUN OUT	↗	POSITION	⊕	

SIGNED	DATE	TITLE
DRAWN	CJB 06.02.03	PROVISIONAL OUTLINE
CHECKED	--	
DESIGN APPROVAL	--	
APPLICATION APPROVAL	--	

PRODUCT	DRAWING No.	ISSUE
D1750-02	45120 - H	

GSI WESTWIND