PRODUCT INFORMATION PACKET

Model No: 182TTDW16091
Catalog No: 182TTDW16091
5,3600,DP,182TDZ,3/60/380-400

Nameplate Specifications

Phase	3	Output HP	5 Hp
Output KW	3.7 kW	Voltage	380-400 V
Speed	3500 rpm	Service Factor	1.15
Frame	182TDZ	Enclosure	Drip Proof
Thermal Protection	No Protection	Efficiency	86.5 %
Ambient Temperature	40 °C	Frequency	60 Hz
Current	7.6-7.1 A	Power Factor	86
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	J
Drive End Bearing Size	6207	Opp Drive End Bearing Size	6205
UL	Recognized	CSA	Y
CE	N	IP Code	22
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	2	Rotation	Reversible
Resistance Main	0 Ohms	Mounting	Round
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Rolled Steel
Shaft Type	Single Special Extension	Assembly/Box Mounting	F1/F2 CAPABLE
Outline Drawing	035683-900	Connection Drawing	005102.01ME

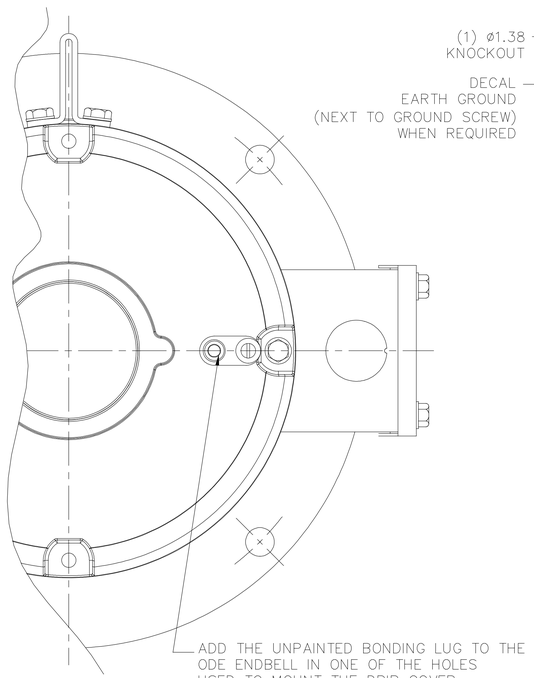
035683

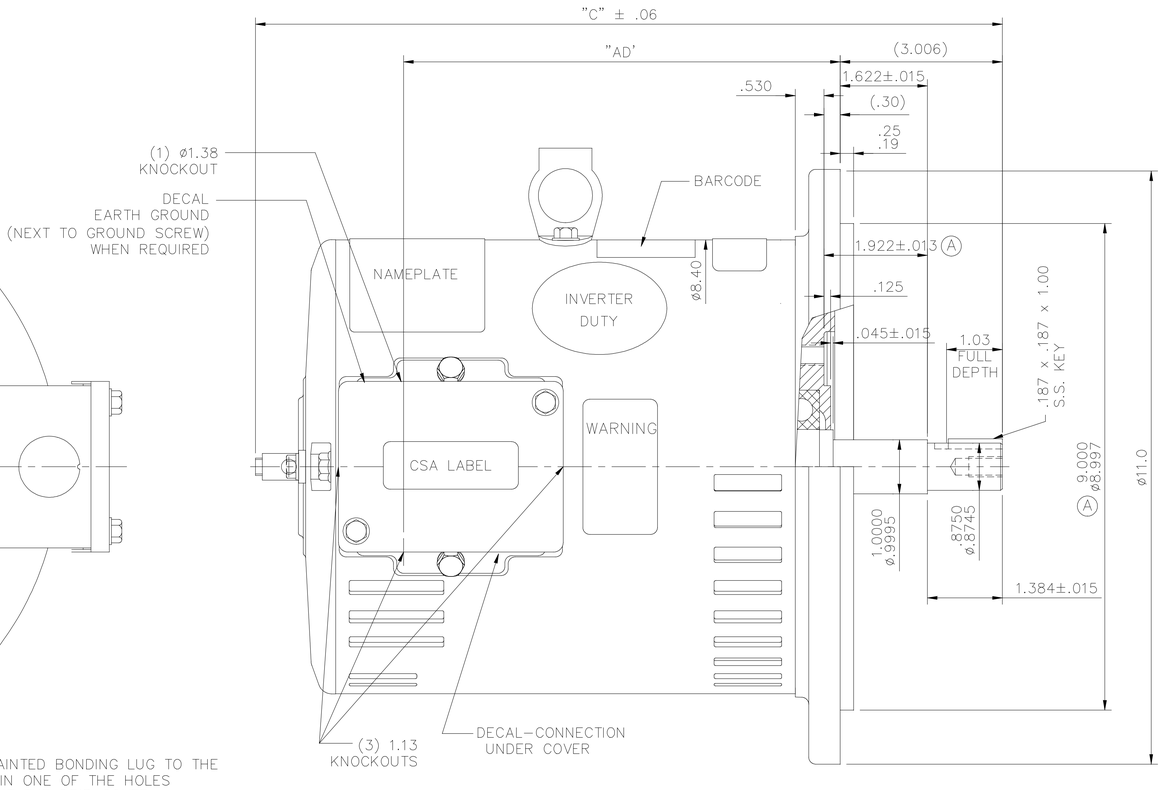
REQUIREMENTS:

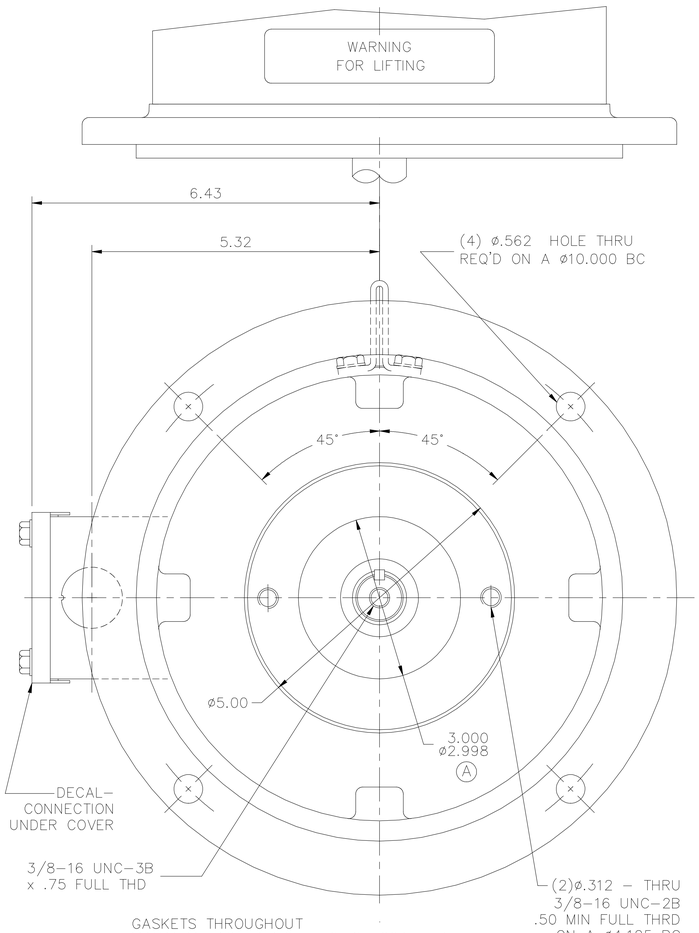
1. NO PAINT OR OVERSPRAY PERMISSIBLE ON BONDING LUG P/N 006780-02 THAT IS AFFIXED TO OPE BRACKET WITH 1/4-20 x 3/8 THREAD FORMING SCREW.
2. LUG SHOULD NOT BE DAMAGED IN SHIPPING.
3. MARATHON TO TEST BONDING LUG TO GROUND SCREW OR GROUND LUG IN MOTOR CONDUIT BOX ON ALL MOTORS, IN ACCORDANCE TO UL1081 SECTION PORTIONS OF 33.1 AND 11.3.3 LISTED AS FOLLOWS.
4. 11.3.3 THE RESISTANCE BETWEEN THE POINT OF CONNECTION OF THE EQUIPMENT GROUNDING MEANS (GROUNDING TERMINAL OR GROUND LUG) AND THE BONDING LUG ON OPE BRACKET SHALL NOT BE MORE THAN 0.1 OHM.
5. 33.1 COMPLIANCE WITH THE REQUIREMENTS IN 11.3.3 SHALL BE DETERMINED BY ANY INDICATING INSTRUMENT (OHMETER OR BRIDGE): HOWEVER, WHEN RESULTS NOT IN COMPLIANCE, THE MOTOR NEEDS TO BE INSPECTED AND FIXED SUCH THAT IS IN COMPLIANCE TO 11.3.3.
6. 3 CTQ'S MARKED ON OUTLINES OF WHICH (2 ARE FOR D-FLANGE) AND (1 FOR SHAFT LENGTH) NEED TO BE CHECKED 100% WITH GO/NO-GO GAGES IN MTY2 AND ANY NON-CONFORMING MOTORS MUST BE FIXED BEFORE SENDING TO PENTAIR.

REQUERIMIENTOS:

1. NO SE PERMITE EL ENVIO DE ALGUN MOTOR CON LA BONDING LUG PINTADA O ROCIADA CON PINTURA, EL BONDING LUG VA EN EL BRAKET USANDO UN TORNILLO CON LAS SIGUIENTES DIMENSIONES 1/4-20 x 3/8.
2. NO SE DEBE DE DANAR LA BONDING LUG DURANTE SU ENVIO.
3. MARATHON DEBE DE REALIZAR LA PRUEBA DE LA BONDING LUG HACIA EL TORNILLO TIERRA EN TODOS LOS MOTORES, DE ACUERDO CON LAS ESPECIFICACIONES DE UL UL1081 SECTION 33.1 Y 11.3.3.
4. 11.3.3 LA RESISTENCIA ENTRE EL PUNTO TIERRA DE CONECCION DEL EQUIPO Y EL BONDING LUG EN EL BRACKET NO DEBE DE SER MAYOR QUE .1 OHM.
5. 33.1 DE ACUERDO CON LOS REQUERIMIENTOS EN 11.3.3 DEBE DE SER DETERMINADA USANDO CUALQUIER TIPO DE INSTRUMENTOS (OHMETRO O MULTIMETRO), INSPECCIONADO Y ARREGLADO DE ACUERDO A 11.3.3 CUANDO EL RESULTADO NO ESTA DEACUERDO A LO ESPECIFICADO EL MOTOR NECESITA SER.
6. 3 CTQ's MARCADO EN EL OUTLINE DE LOS CUALES (2 SON PARA EL D-FLANGE) Y (1PARA LA LONGITUD DE LA FLECHA) NECESITAR SER REVIZADOS AL 100% CON EL GAGE GO / NO-GO EN MT2 LOS MOTORES CON NO CONFORMIDAD DEBEN DE SER REPARADOS ANTES DE ENVIARLOS A PENTAIR







DASH NO.	"C"	"AD"
850	13.82	8.00
900	14.32	8.50
950	14.82	9.00
1000	15.32	9.50
1050	15.82	10.00
1100	16.32	10.50
1150	16.82	11.00
1200	17.32	11.50

CTQ'S
- (P) PROCESS
- (E) ENGINEERING
- (A) APPLICATION
- (R) REGULATORY

NO.	REVISION	BY & DATE	CHK
L	UPDATED AS PER ECR-0155510	NK 01/10/15	RG
K	GROUND EARTH DECAL ADDED ECR#0094408	SRK 03/11/13	
J	ADDED NOTE #6 AS PER ISAAC #12-5550	RG 3/19/12	
I	ADDED REQUIREMENTS ISAAC 11-6104	GWS	
H	UPDATED AS PER ISAAC #11-1948	NB 05/24/2011	

TOLERANCES UNLESS SPECIFIED: ANG ±1/2° | DEC. .X ±.1 | INCHES .XX ±.03 | .XXX ±.005 | .XXXX ±.0005

REGAL™ Regal Beloit America, Inc.

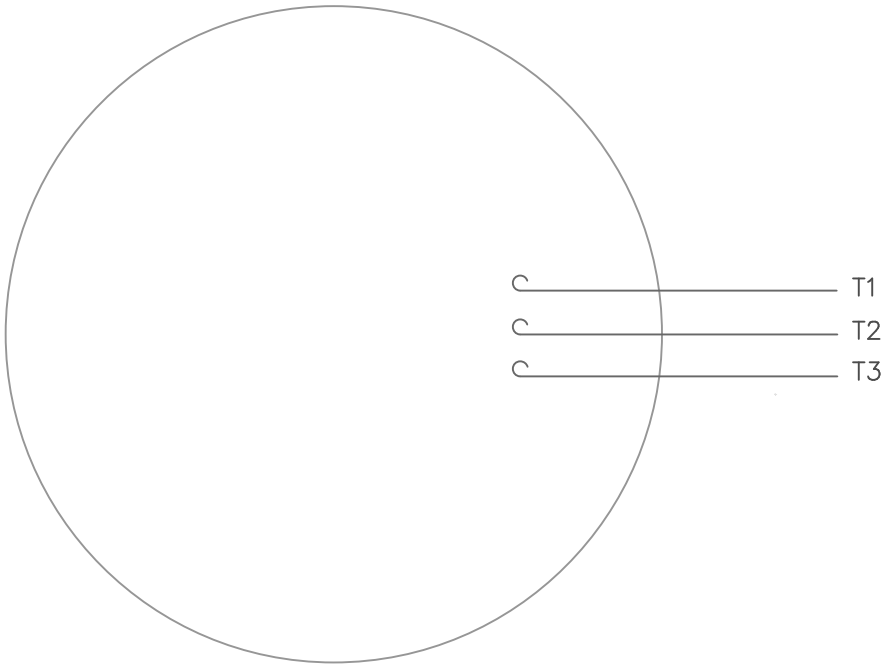
DRAWN	VV 06/09/08
CHK	
APPD	
SCALE	1=2
REF	
FMF	184TTDW9624
PREV	
RFP	
DIST	NLV
CAD FILE	035683rev
SIZE	B
DRAWING NO.	035683
REV.	L

TITLE: OUTLINE – 180TZ FRAME DRIP PROOF – "D" FLANGE-AURORA PUMP

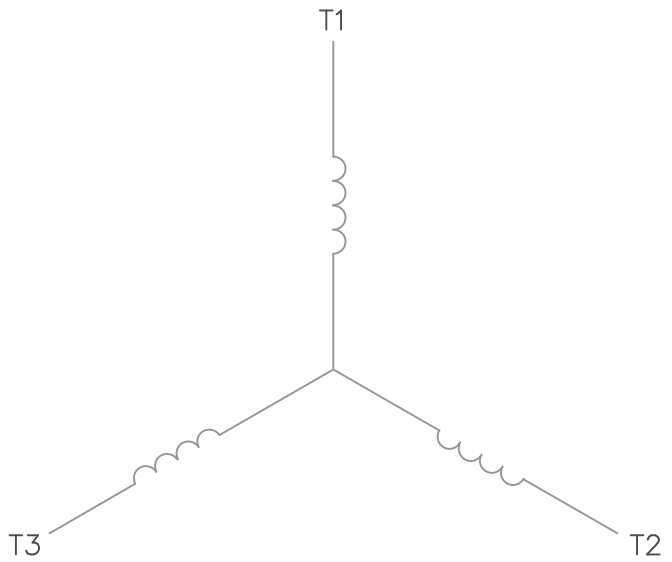
MAT'L.

FINISH

VIEW FROM OUTSIDE OF MOTOR AT SWITCH END.



LINE LEADS



CONNECT LEADS AS FOLLOWS
FOR FOUR CONDUCTOR CORD ( )

CORD	L1 (RED)	L2 (WHITE)	L3 (BLACK)	(GREEN)
MOTOR	T1	T2	T3	GROUND

NO.	REVISION	BY & DATE	CHK

TOLERANCES UNLESS SPECIFIED

DEC.	INCHES
.X	±.1
.XX	±.01
.XXX	±.005
.XXXX	±.0005
ANG	±1/2°

MARATHON ELECTRIC

TITLE: EXTERNAL WIRING DIAGRAM TYPE "T" W/O PROTECTOR

MAT'L.: DECAL – 004169

FINISH:

CAD FILE: 00510201ME

RFP: 5/1/02

DIST:

DRAWN	RDW 5/1/02
CHK	
APPD	
SCALE	1=1
REF	
FMF	
PREV	

SIZE: A

DRAWING NO.: 005102-01ME

REV.:

9/25/2008 5:13:26 PM

Data Sheet

Date: _____
Customer: _____
Attention: _____
Submitted by: _____

marathon electric

182TTDW16091

Submittal Data

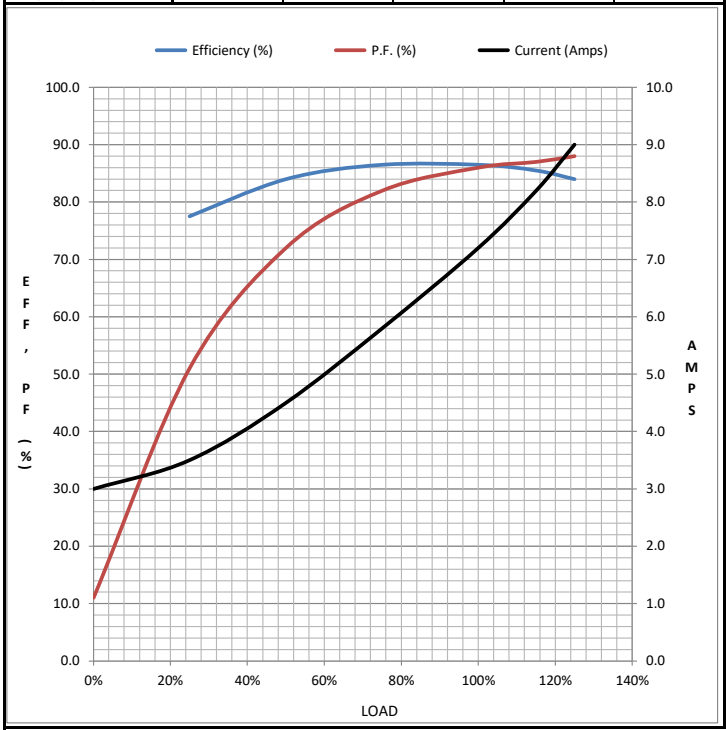
Data @ 400 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	3.0	3.5	4.5	5.8	7.2	8.2	9.0	53.0	
Torque(ft-lb)	0.00	1.80	3.7	5.6	7.5	8.6	9.5	16.0	
RPM	3600	3576	3552	3526	3500	3,478	3465	0	
Efficiency (%)		77.5	84.0	86.5	86.5	85.5	84.0		
P.F. (%)	11.0	51.0	72.0	82.0	86.0	87.0	88.0	59	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	1800	2850	3500	3600
Current (Amps)	53.0	50.0	34.0	7.2	3.0
Torque(ft-lb)	16.0	14.0	23.0	7.5	0.00



Information Block

HP	5.0
Sync. RPM	3600
Frame	182TDZ
Enclosure	DP
Construction	TDW
Voltage	400 V
Frequency	60 Hz
Design	B
LR Code letter	J
Service Factor	1.15
Temp Rise @ FL	30 ° C
Duty	CONT
Ambient	40 ° C
Elevation	3,300 feet
Rotor/Shaft wk²	0.18 Lb-Ft²
Ref Wdg	T82117 R1
Sound Pressure @ 1M	71 dBA
VFD Rating	NA
Outline Dwg	035683-900
Conn. Diag	005102.01ME

Additional Specifications:

7.5 AMPS @ 380V

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
1.5015	0.8580	3.7323	1.5873	80.0085

Speed -Torque Curve