

PRODUCT INFORMATION PACKET



Model No: 182TTTN16569A

Catalog No: 824528.00

..3HP..1800 RPM.182T.TEAO.230/460V.3PH.60.AIR OVER.40C.1.15.RIGID BASE.....COOLING
TOWER

Cooling Tower



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Nameplate Specifications

Output HP	3 Hp	Output KW	2.2 kW
Frequency	60 Hz	Voltage	230/460 V
Current	8.0/4.0 A	Speed	1760 rpm
Service Factor	1.15	Phase	3
Efficiency	90.2 %	Duty	Continuous
Insulation Class	F	Design Code	B
KVA Code	K	Frame	182T
Enclosure	Totally Enclosed Air Over	Overload Protector	No
Ambient Temperature	40 °C	Drive End Bearing Size	6206
Opp Drive End Bearing Size	6206	UL	No
CSA	N	CE	N
IP Code	55		

Technical Specifications

Electrical Type	Squirrel Cage Inverter Rated	Starting Method	Line Or Inverter
Poles	4	Rotation	Reversible
Mounting	Rigid base	Motor Orientation	HORIZONTAL
Drive End Bearing	BALL	Opp Drive End Bearing	BALL
Frame Material	Cast Iron	Shaft Type	T
Overall Length	13.82 in	Frame Length	8.00 in
Shaft Diameter	1.125 in	Shaft Extension	2.75 in
Assembly/Box Mounting	F1/F2 CAPABLE		
Outline Drawing	036362-800	Connection Diagram	A-EE7308-LE

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3

Uncontrolled Copy

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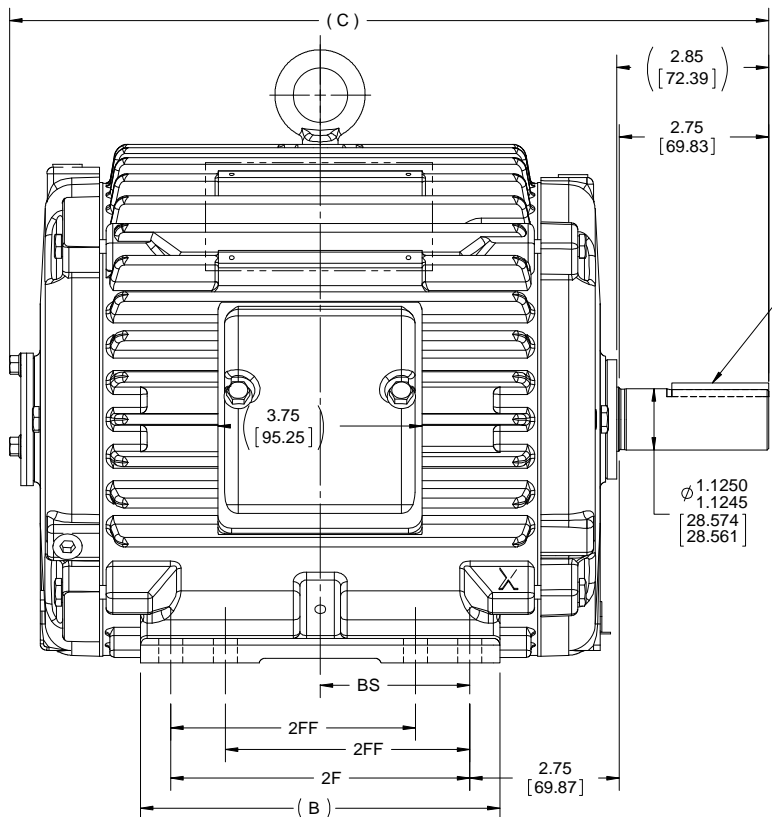
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B

B

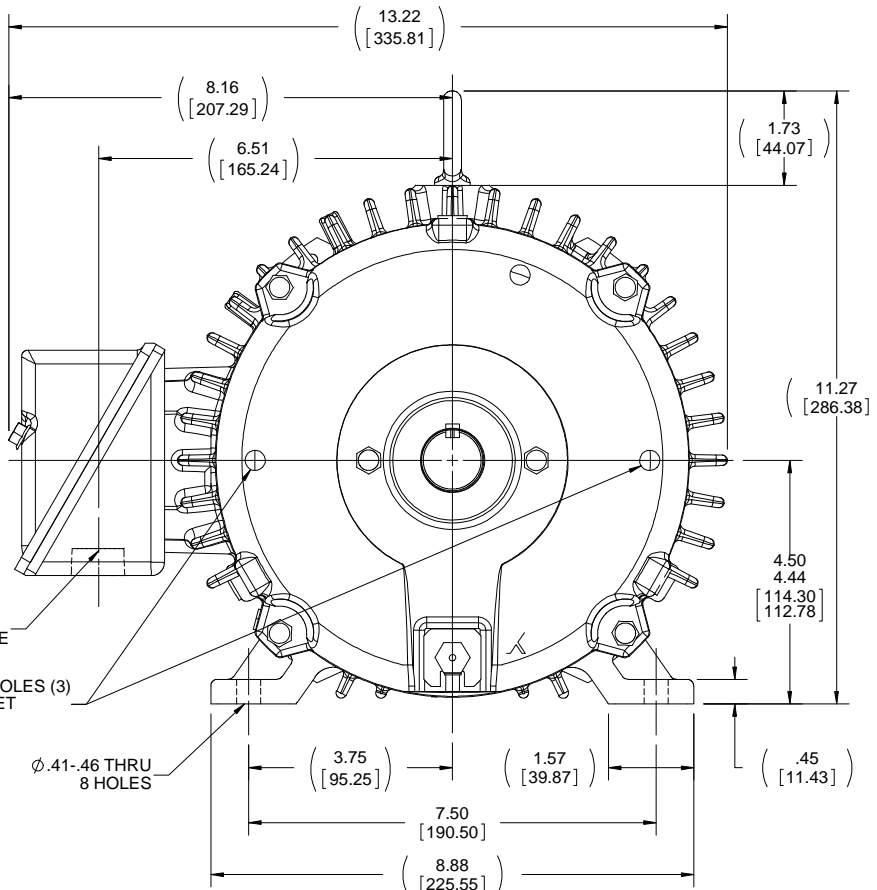
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A



.25x.25x1.75 KEY

Ø 1.1250
1.1245 [28.574]
28.561



3/4" NPT LEAD HOLE

SPECIAL DRAIN HOLES (3) ON EACH BRACKET

Ø.41-.46 THRU 8 HOLES

NOTES:

- 1. NAMEPLATE TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
- 2. CONDUIT BOX CAN ROTATED IN 90° STEPS.
- 3. CONDUIT BOX CAN BE MOUNTED ON OPPOSITE SIDE BY REMOVING BRACKETS AND TURNING FRAME 180°

DRAWING REVISION A	REVISION BY MVG	DATE 10/10/2017
ECO ECO-0128141	APPROVED BY ST	DATE 03/25/2016
ECO DESCRIPTION NEW DRAWING		
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TOLERANCES UNLESS OTHERWISE SPECIFIED:		
DEC.	INCH	mm
.X	+0.1	[+2.5]
.XX	+0.03	[+0.76]
.XXX	+0.005	[+0.127]
.XXXX	+0.0005	[+0.0127]
REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [0.076/.381] X 45°		
CORNER FILLETS: R.02 [51]		
MACHINED SURFACES: 200 INCH 5.1 mm		

DRAWN BY MVG	DATE 10/10/2017
APPROVED BY ST	DATE 10/10/2017
REFERENCE 036004LE	THIRD ANGLE PROJECTION

Regal Beloit America, Inc.	
DESCRIPTION OUTLINE 180 FR. - CAST CBOX	
MATERIAL	PROCESS/FINISH
SIZE B	DRAWING NUMBER 036362
SHEET 1 OF 1	

1000	184	15.94	8.61	7.50	5.50	3.75
800	182/184	13.94	6.61	5.50	4.50	2.75
DASH	FRAME	C	B	2F	2FF	BS

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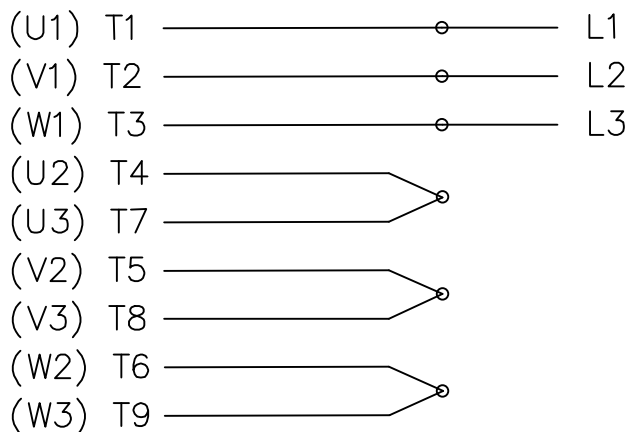
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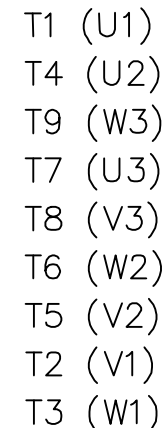
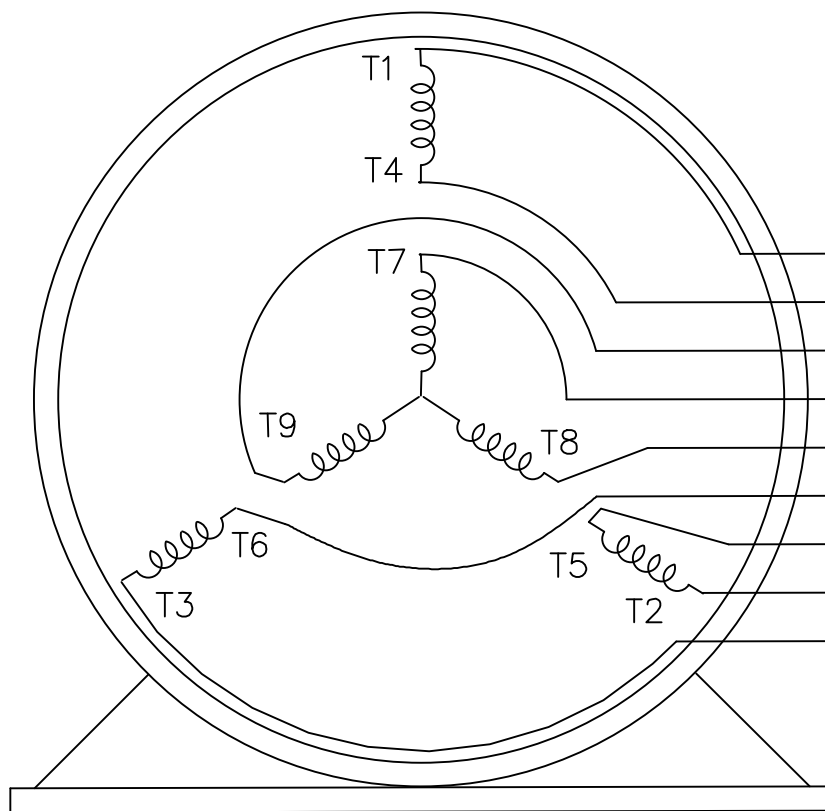
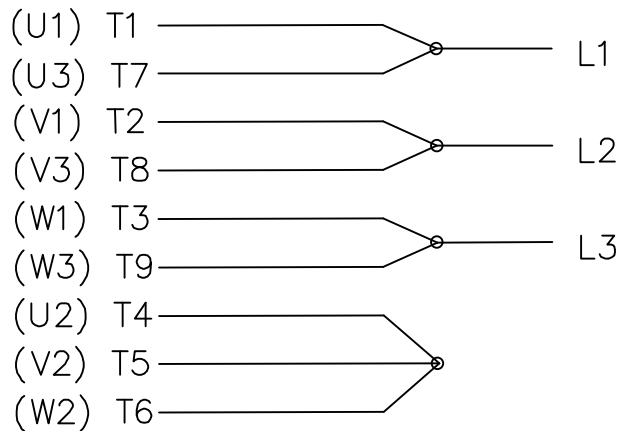
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THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE




LOW VOLTAGE



VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

T8Y, T2Y, T2BL, T4BX, T2EC, T2G
T6BZ, T2B, T6BL, T4AV, T6B, T4B

				TOLERANCES UNLESS SPECIFIED		 ELECTRIC MOTORS GEARMOTORS AND DRIVES	DRAWN HLB 04-29-2002	
				DEC.	INCHES		CHK	ML 05-03-2002
				.X	±.1		APPD	GK 05-03-2002
				.XX	±.01		SCALE	1=1
2	ADDED IEC NOTATIONS... (U1), (V1) ETC. (MU105786)	REP 01-11-2012	DR	.XXX	±.005	TITLE CONNECTION DIAGRAM 3Ø - DUAL VOLTAGE MOTOR		REF
1	NEW DRAWING	HLB 05-03-2002	ML	.XXXX	±.0005	MAT'L.		FMF
NO.	REVISION	BY & DATE	CHK	ANG	±1/2'	FINISH		PREV
THIS DRAWING IN DESIGN AND DETAIL IS OUR PROPERTY AND MUST NOT BE USED EXCEPT IN CONNECTION WITH OUR WORK ALL RIGHTS OF DESIGN AND INVENTION ARE RESERVED THIS IS AN ELECTRONICALLY GENERATED DOCUMENT - DO NOT SCALE THIS PRINT				RFP	CAD FILE EE7308-LE		SIZE	DRAWING NO. PAGE OF REV.
				DIST	LB-WP	A	EE7308-LE	2



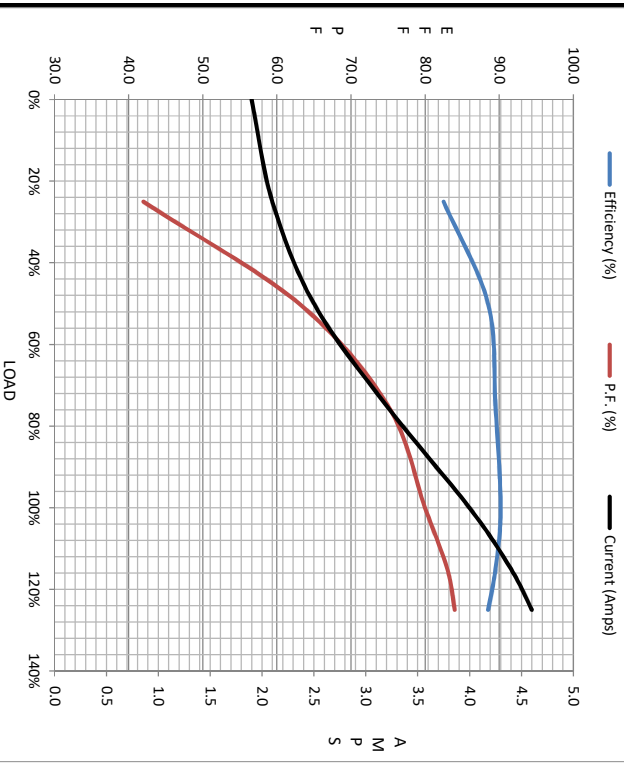
Load	0%	25%	50%	75%	100%	115%	125%	LR
Current (Amps)	1.90	2.10	2.50	3.2	4.0	4.4	4.6	32.0
Torque (ft-lb)	0.00	2.20	4.4	6.7	9.0	10.4	11.2	22.5
RPM	1800	1790	1780	1770	1760	1,755	1750	0
Efficiency (%)		82.5	88.5	89.5	90.2	89.5	88.5	
P.F. (%)	6.5	42.0	63.0	75.0	80.0	83.0	84.0	47.0

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	750	1500	1760	1800
Current (Amps)	32.0	30.0	23.0	4.0	1.90
Torque (ft-lb)	22.5	20.0	35.0	9.0	0.00

Information Block

HP	3.0			
Sync. RPM	1800			
Frame	182			
Enclosure	TEAO			
Construction	TTS			
Voltage	230/460 V			
Frequency	60 Hz			
Design	B			
LR Code letter	K			
Service Factor	1.15			
Temp Rise @ FL	0 °C			
Duty	CONT ACIM			
Ambient	40 °C			
Elevation	1,000 feet			
Rotor/Shaft wk ²	0.40 LB-Ft ²			
Ref Wdg	K1824116 R21			
Sound Pressure @ 1M	999 dBA			
VFD Rating	VARIABLE 10:1			
Outline Dwg	036004LE-800			
Conn. Diag	A-EE7308-1E			
Additional Specifications:				
0				
EQUIV CKT (OHMS / PHASE)				
R1	R2	X1	X2	Xm
2.3630	1.6070	5.1030	7.9380	130.4100



Speed - Torque Curve

