PRODUCT INFORMATION PACKET

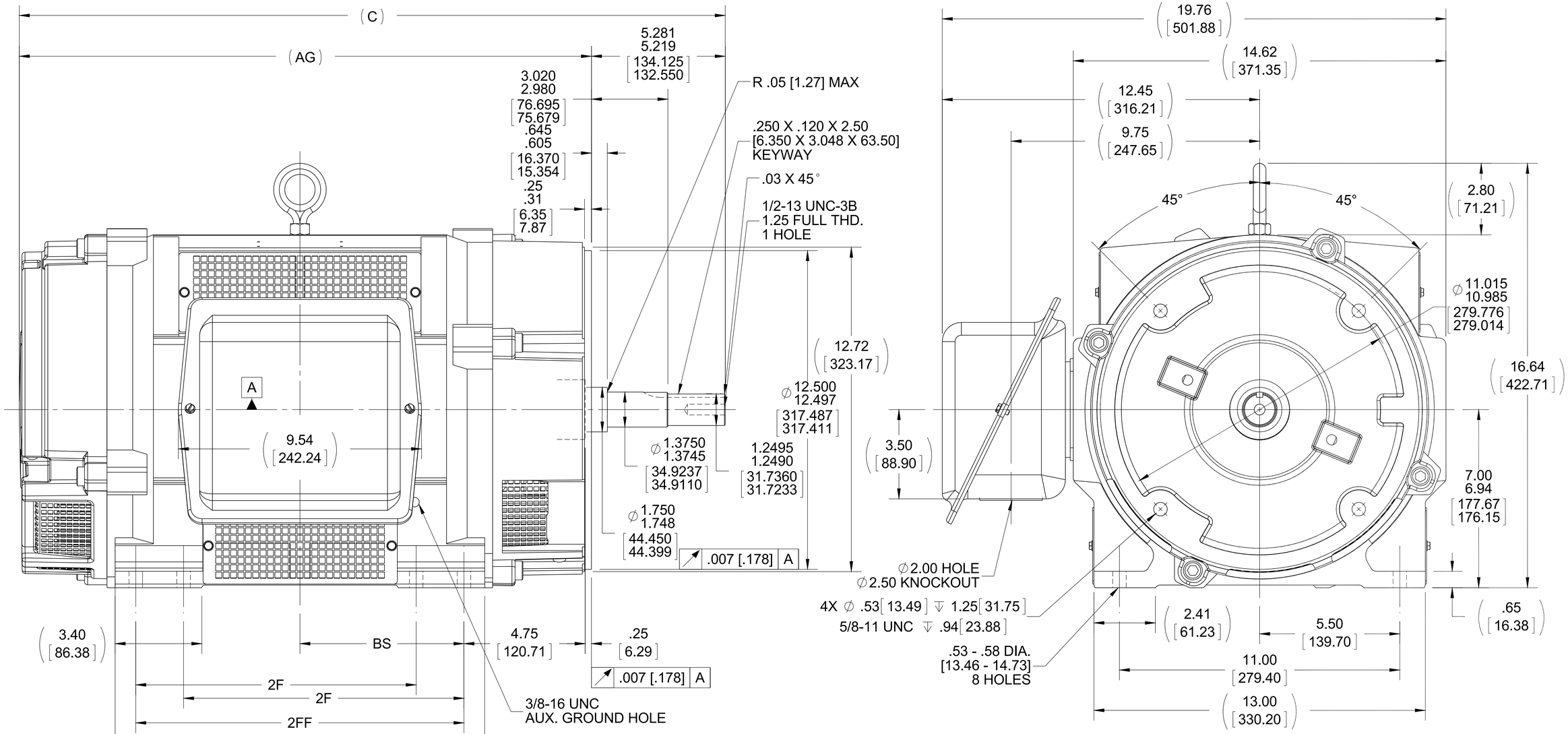
Model No: 286TTDN16331
Catalog No: U111A
30 HP Close-Coupled Pump Motor, 3 phase, 1800 RPM, 200 V, 286JM Frame, ODP
Close-Coupled Pump Motors

Nameplate Specifications

Output HP	30 Hp	Output KW	22.4 kW
Frequency	60 Hz	Voltage	200 V
Current	85.0 A	Speed	1775 rpm
Service Factor	1.15	Phase	3
Efficiency	94.1 %	Power Factor	81
Duty	Continuous	Insulation Class	F
Design Code	B	KVA Code	G
Frame	286JM	Enclosure	Drip Proof
Thermal Protection	No	Ambient Temperature	40 °C
Drive End Bearing Size	6312	Opp Drive End Bearing Size	6210
UL	Recognized	CSA	Y
CE	Y	IP Code	23
Number of Speeds	1		

Technical Specifications

Electrical Type	Squirrel Cage Induction Run	Starting Method	Across The Line
Poles	4	Rotation	Reversible
Resistance Main	.22 Ohms	Mounting	Rigid Base
Motor Orientation	Horizontal	Drive End Bearing	Ball
Opp Drive End Bearing	Ball	Frame Material	Cast Iron
Shaft Type	JM	Overall Length	27.76 in
Frame Length	15.12 in	Shaft Diameter	1.250 in
Shaft Extension	5.28 in	Assembly/Box Mounting	F1/F2 CAPABLE
Connection Drawing	A-EE7300U	Outline Drawing	B-SS207608-1512



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

DASH	FRAME	B	C	2F	2FF	BS	AG
1325	284/6JM	12.63 [320.80]	25.89 [657.61]	9.50 [241.30]	11.00 [279.40]	5.50 [139.70]	20.64 [524.26]
1512	286JM	14.50 [368.30]	27.76 [705.17]	11.00 [279.40]	-	6.44 [163.58]	22.51 [571.70]

DRAWING REVISION: B	REVISION BY: D.FROEHLICH	DATE: 07-28-2015
ECO: ECO-0081761	APPROVED BY:	DATE:
ECO DESCRIPTION: UPDATED TABLE		

TOLERANCES UNLESS OTHERWISE SPECIFIED:

DEC.	INCH	mm	ANGLE
.X	±0.1	[±2.5]	±7' 30"
.XX	±0.03	[±0.76]	
.XXX	±0.005	[±0.127]	
.XXXX	±0.0005	[±0.0127]	

REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°
CORNER FILLETS: R.02 [.51]
MACHINED SURFACES: 200 INCH / 5.1 mm
mm SHOWN IN [BRACKETS]

DRAWN BY: D.FROEHLICH	
DATE: 05-05-2015	
APPROVED BY: TB	
DATE: 05-07-2015	
REFERENCE	
THIRD ANGLE PROJECTION	

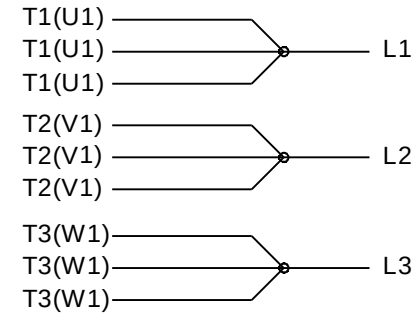
REGAL™ Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
280 JM FR. - TS - DR. PR. - CAST IRON

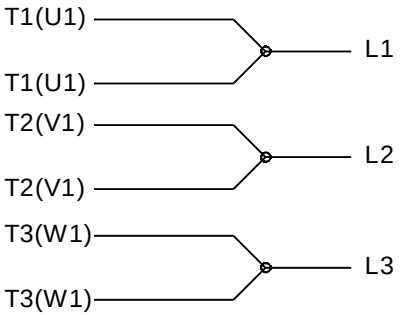
MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: SS207608 | SHEET: 1 OF 1

IF MOTOR HAS 9 LEADS

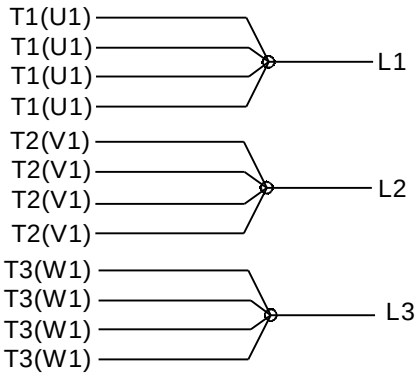


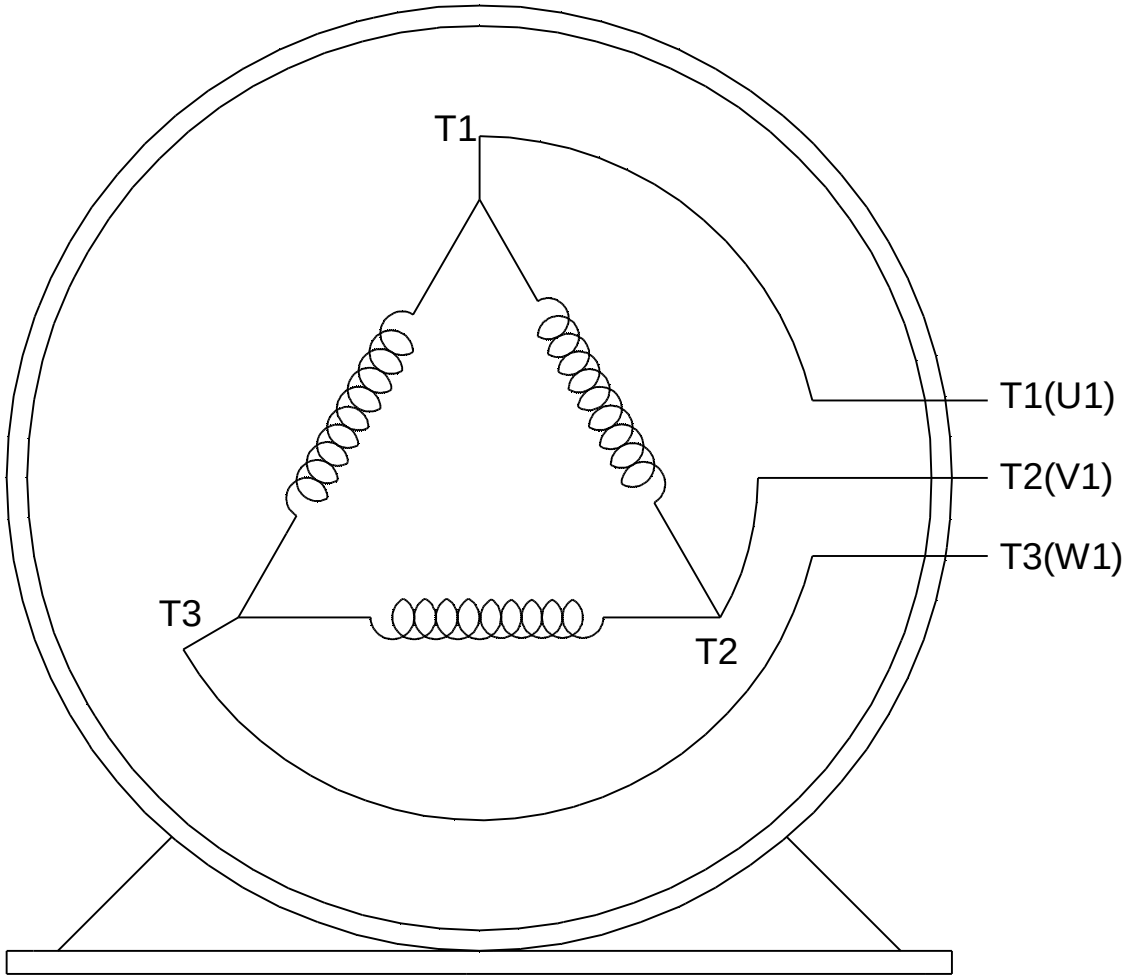
IF MOTOR HAS 6 LEADS



A-9806 DECAL IF CALLED FOR

IF MOTOR HAS 12 LEADS





VIEW OF TERMINAL END

DRAWING REVISION: L	REVISION BY: AJW	DATE: 05-04-2015	TOLERANCES UNLESS OTHERWISE SPECIFIED:	DRAWN BY: DRS	Regal Beloit America, Inc.
ECO: ECO-0077067	APPROVED BY: EWH	DATE: 05-05-2015	DEC. .X ±0.1 [±2.5] ±7' 30"	DATE: 09-27-1996	
ECO DESCRIPTION: UPDATED TO SOLIDWORKS			INCH .XX ±0.02 [±0.51]	APPROVED BY: GK	DESCRIPTION: CONN DIAGRAM-EXTERNAL
			XXX ±0.005 [±0.127]	DATE: 09-30-1996	3Ø SINDLE VOLTAGE
			.XXXX ±0.0005 [±0.0127]	REFERENCE	MATERIAL / PROCESS/FINISH
			REMOVE BURRS & BREAK SHARP EDGES: .003/.015 [.076/.381] X 45°	THIRD ANGLE PROJECTION	SIZE: A / DRAWING NUMBER: EE7300U / SHEET: 1 OF 1
			CORNER FILLETS: R.02 [.51]		
			MACHINED SURFACES: 200 INCH / 5.1 mm		
			mm SHOWN IN [BRACKETS]		

P.O. BOX 8003
WAUSAU, WI 54401-8003
PH. 715-675-3311

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7300U
OUTLINE: B-SS207608-1512
WINDING: K2864304 NONE 10
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 286TTDN16331
CAT #: U111A
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
30	22.4	1800	1772	286JM	DP	TDN	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	200	85	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	94.1	3/4 LD EFF	94.1	1/2 LD EFF	93.6	GTD EFF	ELECT. TYPE
F.L. PF	81.0	3/4 LD PF	76.5	1/2 LD PF	66.0	93.6	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE		B.D. TORQUE		F.L. RISE (°C)	
89.0 LB-FT	478	160 LB-FT	180%	220 LB-FT	247%	45	

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
72 dBA	81 dBA	4.7 LB-FT²	0 LB-FT²	20 SEC.	0	460 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
C-FACE	STANDARD	RIGID	HORIZONTAL	NO	NONE	NO	RODENT	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6312	BALL 6210	POLYREX EM	JM	NONE	NONE	1045 HOT ROLLED (C-204)	CAST IRON

THERMOSTATS	PROTECTORS	WDG RTD's	BRG RTD's	THERMISTORS	CONTROL	SPACE HEATERS
NONE	NOT	NONE	NONE	NONE	FALSE	NA

R1 (ohms/ph)	R2 (ohms/ph)	X1 (ohms/ph)	X2 (ohms/ph)	Xm (ohms/ph)	VIBRATION (in/sec)	FLOAT
0.025	0.021	0.134	0.164	3.18	0.150	ODE

*
NOTES
*

INVERTER TORQUE: NONE
INV. HP SPEED RANGE: NONE

ENCODER: NONE
NONE
NONE NONE PPR

BRAKE: NONE
NONE NONE
FT-LB: NA
VOLTAGE: NONE HZ:

PREPARED BY: FAREEDA DUDEKULA
DATE: 9/10/2018

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

Data Sheet

Date: 11/29/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

marathon® electric

286TTDN16331

Submittal

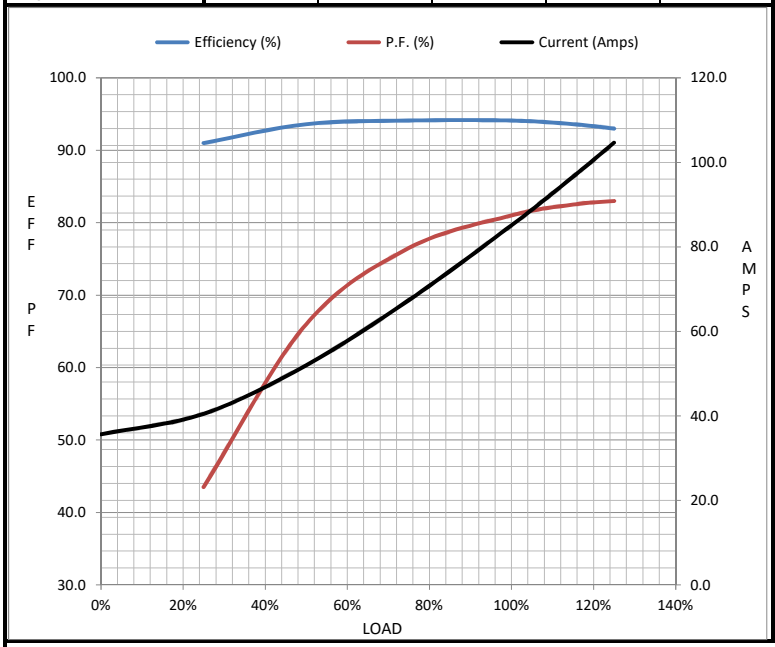
Data @ 200 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	35.7	40.5	52.0	67.4	85.1	96.6	105	478	
Torque (ft-lb)	0.00	22.0	44.0	66.5	89.0	102	112	160	
RPM	1800	1792	1788	1782	1772	1,770	1768	0	
Efficiency (%)		91.0	93.6	94.1	94.1	93.6	93.0		
P.F. (%)	3.0	43.5	66.0	76.5	81.0	82.5	83.0	35.5	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	900	1678	1772	1800
Current (Amps)	478	430	297	85.1	35.7
Torque (ft-lb)	160	136	220	89.0	0.00



Information Block

HP	30.0	
Sync. RPM	1800	
Frame	286	
Enclosure	DP	
Construction	TDS	
Voltage	200	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	45	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	4.7	Lb-Ft²
Ref Wdg	K2864304 NONE	
Sound Pressure @ 1M	72	dBA
VFD Rating	NONE	
Outline Dwg	B-SS207608-1512	
Conn. Diag	A-EE7300U	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0250	0.0210	0.1340	0.1640	3.1800