PRODUCT INFORMATION PACKET

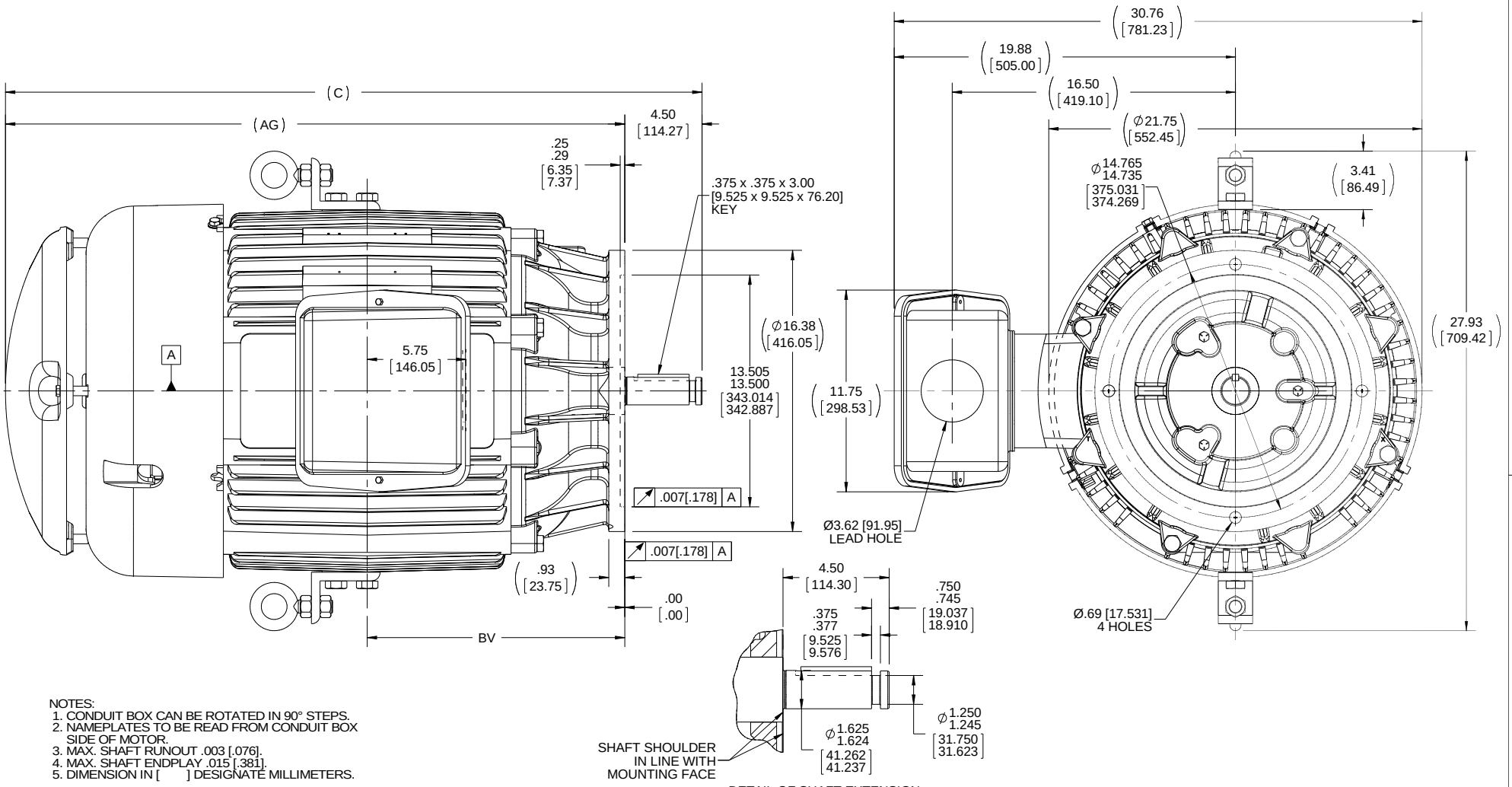
Model No: 405TTFS16082
Catalog No: M918B
75,1200,TEFC,405HPV,3/60/230/460
Vertical Solid Shaft P-Base

Nameplate Specifications

Output HP	**75 Hp**	Output KW	**56.0 kW**
Frequency	**60 Hz**	Voltage	**230/460 V**
Current	**180.0/90.0 A**	Speed	**1185 rpm**
Service Factor	**1.15**	Phase	**3**
Efficiency	**94.5 %**	Duty	**Continuous**
Insulation Class	**F**	Design Code	**B**
KVA Code	**G**	Frame	**405HPV**
Enclosure	**Totally Enclosed Fan Cooled**	Overload Protector	**No**
Ambient Temperature	**40 °C**	Drive End Bearing Size	**6313**
Opp Drive End Bearing Size	**6314**	UL	**Recognized**
CSA	**Y**	CE	**Y**
IP Code	**43**		

Technical Specifications

Electrical Type	**Squirrel Cage Induction Run**	Starting Method	**Across The Line**
Poles	**6**	Rotation	**Reversible**
Mounting	**Round**	Motor Orientation	**SHAFT DOWN**
Drive End Bearing	**BALL**	Opp Drive End Bearing	**BALL**
Frame Material	**Cast Iron**	Shaft Type	**HP**
Overall Length	**40.58 in**	Frame Length	**16.75 in**
Shaft Diameter	**1.625 in**	Shaft Extension	**4.50 in**
Assembly/Box Mounting	**F1/F2 CAPABLE**		
Outline Drawing	**B-SS508404-1675**	Connection Diagram	**A-EE7308**



NOTES:
1. CONDUIT BOX CAN BE ROTATED IN 90° STEPS.
2. NAMEPLATES TO BE READ FROM CONDUIT BOX SIDE OF MOTOR.
3. MAX. SHAFT RUNOUT .003 [.076].
4. MAX. SHAFT ENDPLAY .015 [.381].
5. DIMENSION IN [ ] DESIGNATE MILLIMETERS.

DETAIL OF SHAFT EXTENSION

DASH	FRAME	C	AG	BV
1675	400HPV	40.58 [1030.73]	36.08 [916.43]	15.00 [381.00]

DRAWING REVISION: G	REVISION BY: JJB	DATE: 09-08-2016
ECO: ECO-0104950	APPROVED BY: JHA	DATE: 09-08-2016
ECO DESCRIPTION: UPDATED TO CURRENT STANDARDS		

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	DD
DATE	04-28-1993
APPROVED BY	TB
DATE	04-30-1993
REFERENCE	
THIRD ANGLE PROJECTION	

Regal Beloit America, Inc.

DESCRIPTION: OUTLINE
400HPV FR. - TEFC - 'P'--BASE - VERT. - SPL. EXT.

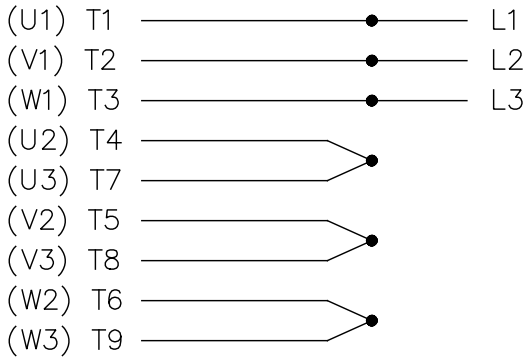
MATERIAL | PROCESS/FINISH

SIZE: B | DRAWING NUMBER: SS508404 | SHEET: 1 OF 1

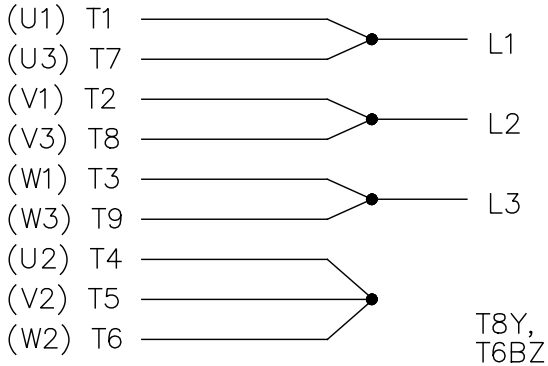
EE7308

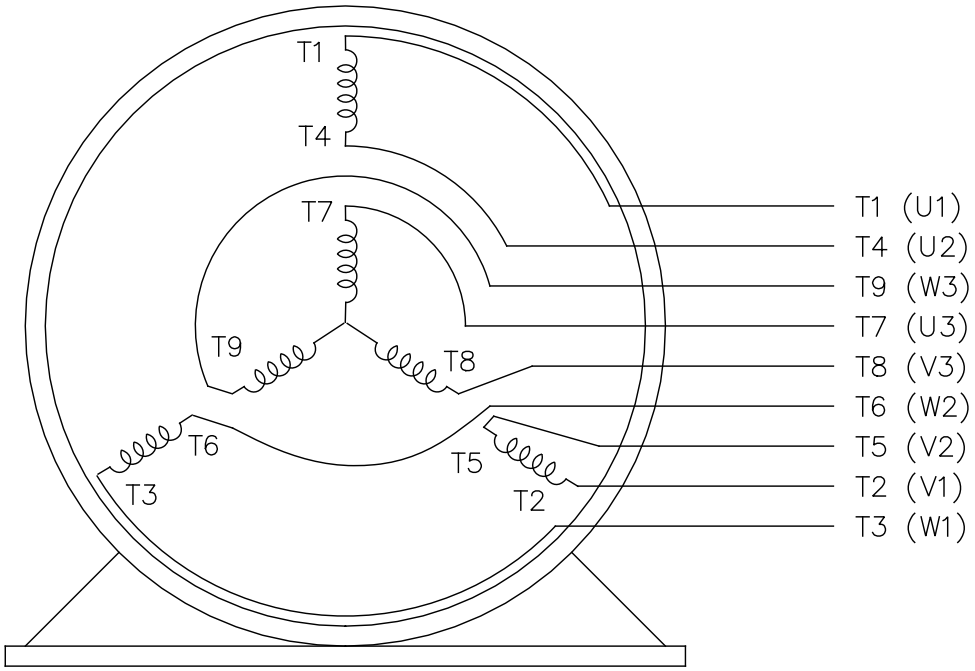
THREE PHASE
DUAL VOLTAGE MOTOR

HIGH VOLTAGE



LOW VOLTAGE





VIEW OF TERMINAL END

REF.
WINDING DIAGRAM

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

OPTIONAL CORD CONNECTION

L1	WHITE
L2	RED
L3	BLACK

NO.	REVISION	BY & DATE	CHK
5	CHG TO REGAL LOGO	SL 09/10/2015	AB
4	REVISED IEC NOTATIONS	MSG 11/15/2011	CMN
3	ADDED IEC NOTATIONS... (U1), (V1) ETC. MU95194	MSG 5/10/2010	MJS
2	ADDED THE OPTIONAL CORD CONNECTION MU46318	RDH 04/24/2003	DRS
1	REDRAWN	RM 11/20/1990	

TOLERANCES UNLESS SPECIFIED

ANG	DEC.	INCHES
	.X	±.1
	.XX	±.02
	.XXX	±.005
	.XXXX	±.0005
	ANG	±7'30"

Regal Beloit America, Inc.

TITLE CONNECTION DIAGRAM
3ø – DUAL VOLTAGE MOTOR

MAT'L.

FINISH

CAD FILE ee7308

RFP

DIST WP

DRAWN RM	11/20/1990
CHK ML	11/21/1990
APPD SAS	04/24/2003
SCALE	1=1
REF	
FMF	
PREV	

SIZE	DRAWING NO. PAGE OF	REV.
A	EE7308	5

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

DATA VOLTS: 460

CERTIFICATION DATA SHEET

CUSTOMER:
ORDER #:
CONN. DIAGRAM: A-EE7308
OUTLINE: B-SS508404-1675
WINDING: T405642 NONE 1
SPEED:

CUSTOMER P.O. #:
REFERENCE MODEL #: 405TTFS16082
CAT #: M318B
CUSTOMER PART #:
MOUNTING: F1/F2 CAPABLE

TYPICAL MOTOR PERFORMANCE DATA

HP	KW	SYNC RPM	FL RPM	FRAME	ENCLOSURE	TYPE	KVA CODE	DESIGN
75	56	1200	1185	405HPV	TEFC	TFS	G	B

PH	HZ	VOLTS	AMPS	START TYPE	DUTY	INSL	S.F.	AMB	ELEV.
3	60	230/460	180/90	ACROSS THE LINE	CONT	F	1.15	40	3300

F.L. EFF	94.5	3/4 LD EFF	95.0	1/2 LD EFF	94.5	GTD EFF	ELECT. TYPE
F.L. PF	83.0	3/4 LD PF	79.0	1/2 LD PF	71.0	94.1	SQ CAGE IND RUN

F.L. TORQUE	LR AMPS @ 460 V	L.R. TORQUE	B.D. TORQUE	F.L. RISE (°C)
333 LB-FT	535	650 LB-FT 195%	750 LB-FT 225%	75

@ 3 FT.	POWER	ROTOR WK²	MAX. LOAD WK²	SAFE STALL TIME	STARTS/HOUR	MOTOR WGT
68 dBA	77 dBA	38.0 LB-FT²	1200 LB-FT²	25 SEC.	2	1350 LB.

*** SUPPLEMENTAL INFORMATION ***

DE BRACKET TYPE	ODE BRACKET TYPE	MOUNT TYPE	MOTOR ORIENTATION	SEVERE DUTY	HAZARDOUS LOCATION	DRIP COVER	SCREENS	PAINT
P-BASE	STANDARD	ROUND	SHAFT DOWN	NO	NONE	YES	NONE	BLUE (ENAMEL)

BEARINGS DE	BEARINGS ODE	GREASE	SHAFT TYPE	SPECIAL DE	SPECIAL ODE	SHAFT MATERIAL	FRAME MATERIAL
BALL 6313	BALL 6314	POLYREX EM	HP	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
0.068	0.042	0.325	0.507	8.732	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: 9/11/2018

FORM: 3531 REV_4 2/27/06

UL: V-INS, CONST UL REC

Data Sheet

Date: 9/11/2018
Customer:
Attention:
Submitted by: FAREEDA DUDEKULA

405TTFS16082

Submittal

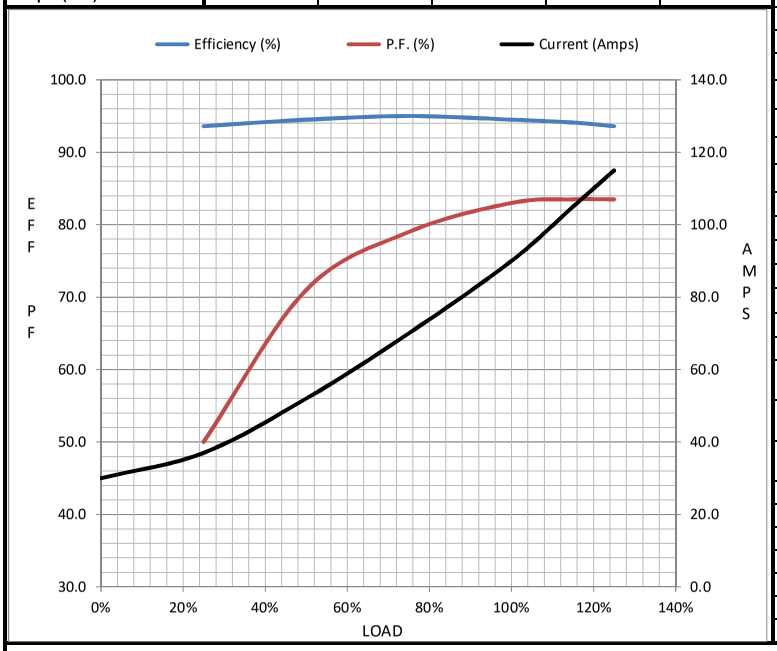
Data @ 460 V

Motor Load Data

Load	0%	25%	50%	75%	100%	115%	125%	LR	
Current (Amps)	30.0	37.0	52.0	70.0	90.0	105	115	535	
Torque (ft-lb)	0.00	82.5	165	248	333	385	417	650	
RPM	1200	1196	1192	1188	1185	1,180	1175	0	
Efficiency (%)		93.6	94.5	95.0	94.5	94.1	93.6		
P.F. (%)	4.0	50.0	71.0	79.0	83.0	83.5	83.5	37.0	

Motor Speed Data

	LR	Pull-Up	BD	Rated	Idle
Speed (RPM)	0	600	1050	1185	1200
Current (Amps)	535	475	300	90.0	30.0
Torque (ft-lb)	650	575	750	333	0.00



Information Block

HP	75.0	
Sync. RPM	1200	
Frame	405182TTFC6080	
Enclosure	TEFC	
Construction	TFS	
Voltage	230/460	V
Frequency	60	Hz
Design	B	
LR Code letter	G	
Service Factor	1.15	
Temp Rise @ FL	75	° C
Duty	CONT	
Ambient	40	° C
Elevation	1,000	feet
Rotor/Shaft wk²	38.0	Lb-Ft²
Ref Wdg	T405642 NONE	
Sound Pressure @ 1M	68	dBA
VFD Rating	NONE	
Outline Dwg	B-SS508404-1675	
Conn. Diag	A-EE7308	
Additional Specifications:		
0		
0		

EQUIV CKT (OHMS / PHASE)

R1	R2	X1	X2	Xm
0.0680	0.0420	0.3250	0.5070	8.7320