



Customer information packet

SUM710004-4

100HP, 1770RPM, 3PH, 60HZ, 360TY, TENV, FOOTL

Class - None

Division - Not Applicable

Specifications

Enclosure	XPNV
Frame	360TY
Frame Material	Iron
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Phase	3
Agency Approvals	UL
	CSA
	CCSA US
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Cable Length	25 FOOT
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	15 MIN
Haz Area Temp Code	T3C
Heater Indicator	No Heater
Inverter Code	Not Inverter
Lifting Lugs	Standard Lifting Lugs
Motor Standards	NEMA
Motor Type	M
Mounting Arrangement	V1
Number of Poles	4
Overall Length	47.10 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed Code	Single Speed
Starting Method	Direct on line

Part detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	W02034A A 001
Layout	066930-060
Eff. date	12-10-2024
CD Diagram	416820-036
Poles	04
Leads	
Proprietary	False
Created date	04-09-2015

Thermal Device - Winding

None

Nameplate

000613007RC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

000692000MB	
SUITABLE FOR OPERATION ON PWM	
INVERTER EQUIPPED WITH IGBT	
DEVICES AND CAPABLE OF	
CARRIER	
FREQUENCY OF 2 KHZ MINIMUM	

000613007MS

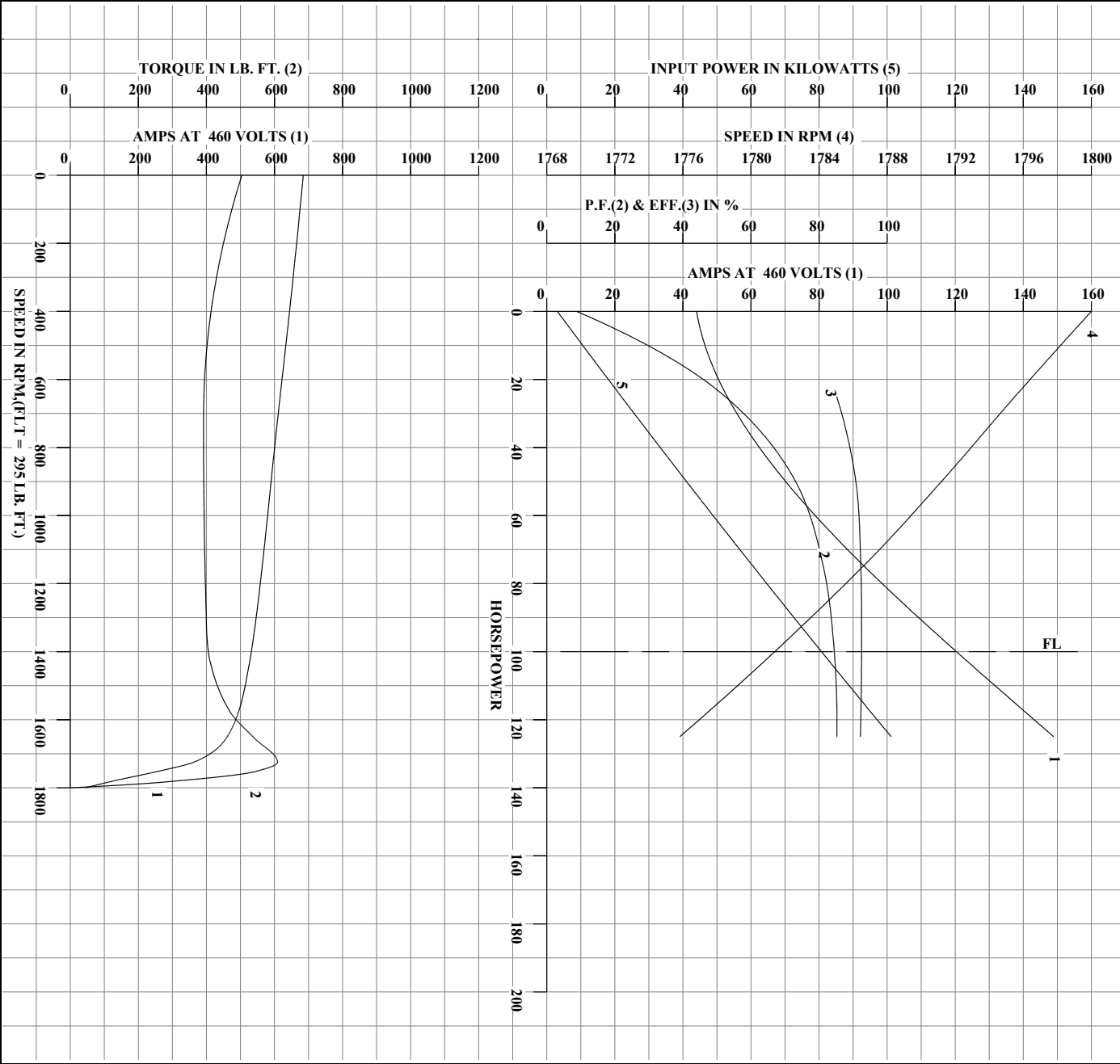
CAT.NO.	SUM710004-4			SPEC NO.		P36G2701					
	SER.NO.				FRAME SIZE		X0360TY				
	HP	RPM	VOLTS		AMPS		HZ	S.F.			
	100	1780	460		120		6-60	1.00			
	100	1780	460		120		60	1.15			
	CONSTANT HP RPM		@	HZ	CODE	F					
	TYPE	P	INSUL.CLASS		F	TORQUE	10:1_VT			DESIGN	B
	D.E. BRG.	90BJ33J30X			ENCL	TENV	DUTY	15MIN	PH	3	
	O.D.E. BRG.	50BC03JG30X			MOTOR WEIGHT		AMB		40		
	*15 MIN IN AIR ;SUB. IN										
SEWAGE / WATER ONLY											
P36G2701F											

000613007MS

CONSTANT HP RPM	CAT.NO.	SUM710004-4		SPEC NO.	P36G2701			
	SER.NO.				FRAME SIZE	X0360TY		
		HP	RPM	VOLTS	AMPS	HZ	S.F.	
		100	1780	460		120	6-60	1.00
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	D.E. BRG.	90BJ33J30X			ENCL	TENV	DUTY	15MIN
	O.D.E. BRG.	50BC03JG30X			MOTOR WEIGHT		AMB	40
		*15 MIN IN AIR ;SUB. IN						
	SEWAGE / WATER ONLY							
	P36G2701F							

S/O	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	360TY	100	P	3/60	1780	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
120	CONT	40/F	1.00	B	F	SUB
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
491753	A36RC4058A00	--		.0743		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	INPUT KW	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	44.2	1800	3.09	8.77	0
1/4	25.0	52.5	1796	21.9	52.4	85.2
2/4	50.0	70.6	1791	41.1	73.1	90.8
3/4	74.9	93.6	1787	60.6	81.2	92.3
4/4	100	120	1782	80.7	84.5	92.5
5/4	125	149	1776	101	85.2	92.1
SPEED TORQUE						
		RPM	TORQUE % FULL-LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	171	504	685	
PULL UP		720	133	391	609	
BREAKDOWN		1725	207	609	363	
FULL LOAD		1782	100	295	120	
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA						
		DRAWN BY: Z.M.WOLFEE CHECKED BY: T.S.WILLIAMS APPROVED BY: Z.M.WOLFEE DATE: 2/09/24		AC MOTOR PERFORMANCE DATA		W02034-A-A001 DATE ISSUED 2/29/24

REL.S.O.	360TY	RPM 1780	S.F. 1.00	ROTOR A36RC4058A00
FRAME	100	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP	100	AMPS 120	CODE LETTER F	TEST DATE ---
TYPE	P	DUTY CONT	ENCLOSURE SUB	STATOR RES. @ 25°C .0743
PHASE / HERTZ	3/60	AMB °C / INSUL. 40/F	E/S 491753	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: Z. M. WOLFE
CHECKED BY: T. S. WILLIAMS
APPROVED BY: Z. M. WOLFE
DATE: 2/09/24

AC MOTOR
PERFORMANCE
DATA

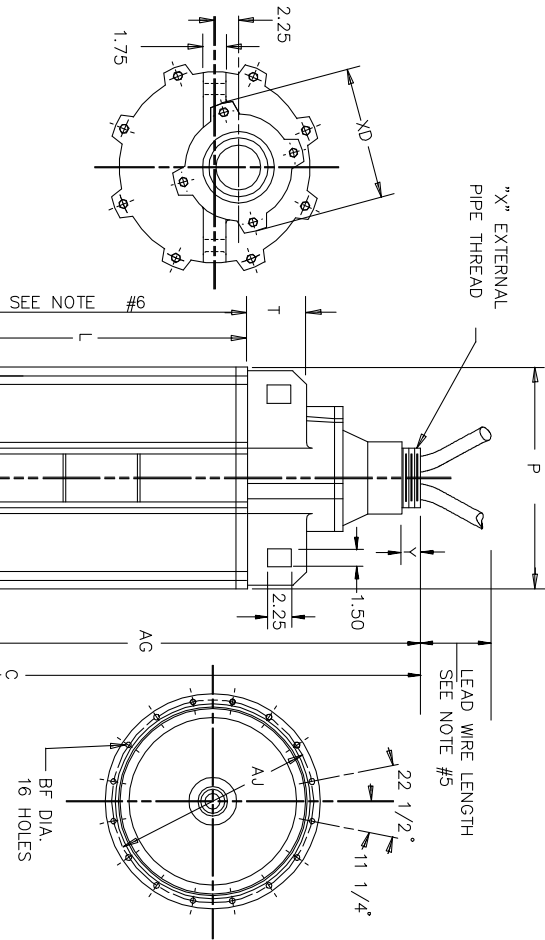
W02034-A-A001

ISSUE DATE 2/29/24

USZAWOL

Printed on 03/25/2025 8:17 AM

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED SUBMERSIBLE
FRAME 360TY THRU L360TY



1.)

FRAME	C	L	P	T	U (3)	V	W	AG	AH	AJ	AK (4)	AL
360TY	47.1	31.25	18.38	4.25	2.4997	3.19	2.12	43.25	6.56	18.75	17.500	15.25
L360TY	49.1	33.25	18.38	4.25	2.4997	3.19	2.12	45.25	6.56	18.75	17.500	15.25

1.)

FRAME	BB	BD (2)	BE	BF	XT	LEAD CONNECTION				B.E. KEY
						X	Y	XD	SQ.	LGTH.
360TY	.25	20.25	1.12	.69	1-1/2-12.3 - 8	1.25	10.88	.50	3.00	
L360TY	.25	20.25	1.12	.69	1-1/2-12.3 - 8	1.25	10.88	.50	3.00	

- 1.) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
2.) "BP" VARIES +.010.
3.) "U" VARIES +.0000, -.0006.
4.) "AK" VARIES +.000, -.002
5.) LEAD WIRE LENGTH AS SPECIFIED ON SALES ORDER.
6.) MINIMUM SUBMERGED DEPTH

FACE RUNOUT AND ECCENTRICITY .008 MAX. T.I.R.
PROTECTIVE CONDUIT FURNISHED BY CUSTOMER.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE NOTES, LOAD TO BUS	VERSION: 00	TDR: 000000921348
REV. LTR: -	REVISD: 09:19:59 04/20/2015	BY: RCGWT
FILE: \RGG\00024\962		
MTL: -		

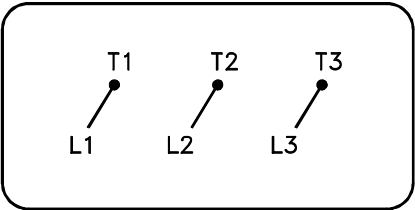
BALDOR

DIM SHT 360TY/L360TY SUBMERSIBLE

SH 1 of 1

416820-036

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 3 LEAD CONNECTED



(N.P. 1575-BA)

416820-036

REV. DESC: LOADED TO BUS, C/R 335225		
REV. LTR: -	VERSION: 00	TDR: 000000538207
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010
MTL: -		BY: RAGRA

BALDOR

CONN DIAG - STANDARD 3 LEAD
SH 1 of 1