ABB BALDOR RELIANCE

Customer information packet

ZDVSM4316T

75HP, 1800RPM, 3PH, 60HZ, 365T, TEFC, FOOT,
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	365T
Frame Material	Iron
Frequency	60.00 Hz
	90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
	75.000 HP @ 90 HZ
Phase	3
Synchronous Speed @ Frequency	3000 RPM @ 90 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	460.0 V @ 90 HZ
	230.0 V @ 90 HZ
	230.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	89.200 A @ 460.0 V
	85.600 A @ 460.0 V
	178.000 A @ 230.0 V
	171.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Feedback Device	TACHOMETER
Heater Indicator	No Heater
High Voltage Full Load Amps	85.6 a

Part Detail

Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG4073
Layout	617438-426
Eff. date	10-22-2025
CD Diagram	416820-002
Poles	04
Leads	3#4,6#6
Proprietary	False
Created date	10-19-2010

Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	36.75 IN
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
	2675 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV												
CAT NO	ZDVSM4316T		**SPEC NO.**	P36G3220								
SER.NO.			**FRAME**	365T								
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**TYPE**	P					
BASE	75	1780	230/460	172/86	60	**SF**	1.00					
MAX	75	2675	230/460	166/83	90	**INSUL.CLASS**	F					
DRIVE END BEARING	65BC03J30X		**CONSTANT TORQUE**		**DUTY**	CONT	**AMB**	40				
OPP D.E. BEARING	65BC03J30X		1000:1	**ENCL**	TEFC	**PHASE**	3					
DESIGN NO.	A36WG4073-R002		**FLUX AMPS**	62/31		**VPWM INVERTER READY**						
MAX SPEED/RPM	3600		**OVERTEMP PROT**	2	**WK2**	16.2	**POLES**	4	**WEIGHT**			

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	172/86	Base Volt	460	R1	0.045	X1	0.239
HP	75	NL AMPS	30.80	R2	0.225	X2	0.110
BASE SPEED	1783	Slip (HZ)	0.57	R2B	0.021	X2B	0.339
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.000	R2E	0.005	XM	7.820

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1782.8	74.9	220.5	460	60	86.2
Max Speed	2673	74.8	147.0	460	90	83.5
CT Min Speed	1.7828	0.075	220.5	0.46	0.06	86.2

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1798.9	0.0	0.0	460	60	30.8
1/4	1795.7	18.8	54.9	460	60	36.9
1/2	1791.7	37.5	109.8	460	60	50.3
3/4	1787.7	56.2	164.9	460	60	67.3
Full Load	1782.8	74.9	220.5	460	60	86.2
O/L	1762	149.7	446.0	460	60	179.0

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data

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DR BY USBRRAN1
CK BY CD
APP BY USBRRAN1
DATE 11/5/2024

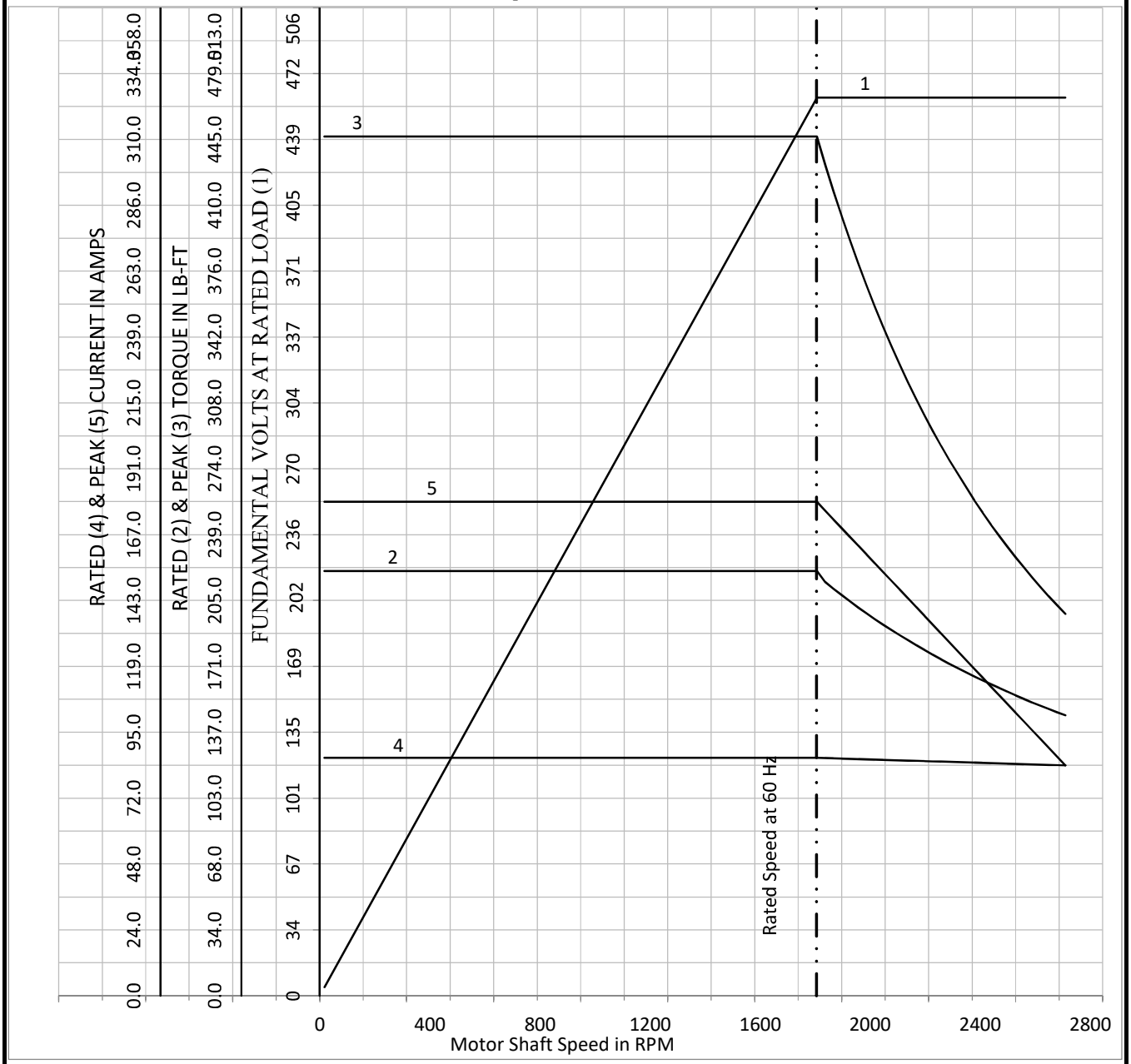
A-C MOTOR PERFORMANCE CURVES

A36WG4073

Record: 76727

				WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP VOLTS	230/460						
NP AMPS	172/86	Base Volt	460	R1	0.045	X1	0.239
HP	75	NL AMPS	30.80	R2	0.225	X2	0.110
BASE SPEED	1782.80005	Slip (HZ)	0.57	R2B	0.021	X2B	0.339
PHASE/HZ	3/60	WK^2 (lb-ft^2)	0.000	R2E	0.005	XM	7.820

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

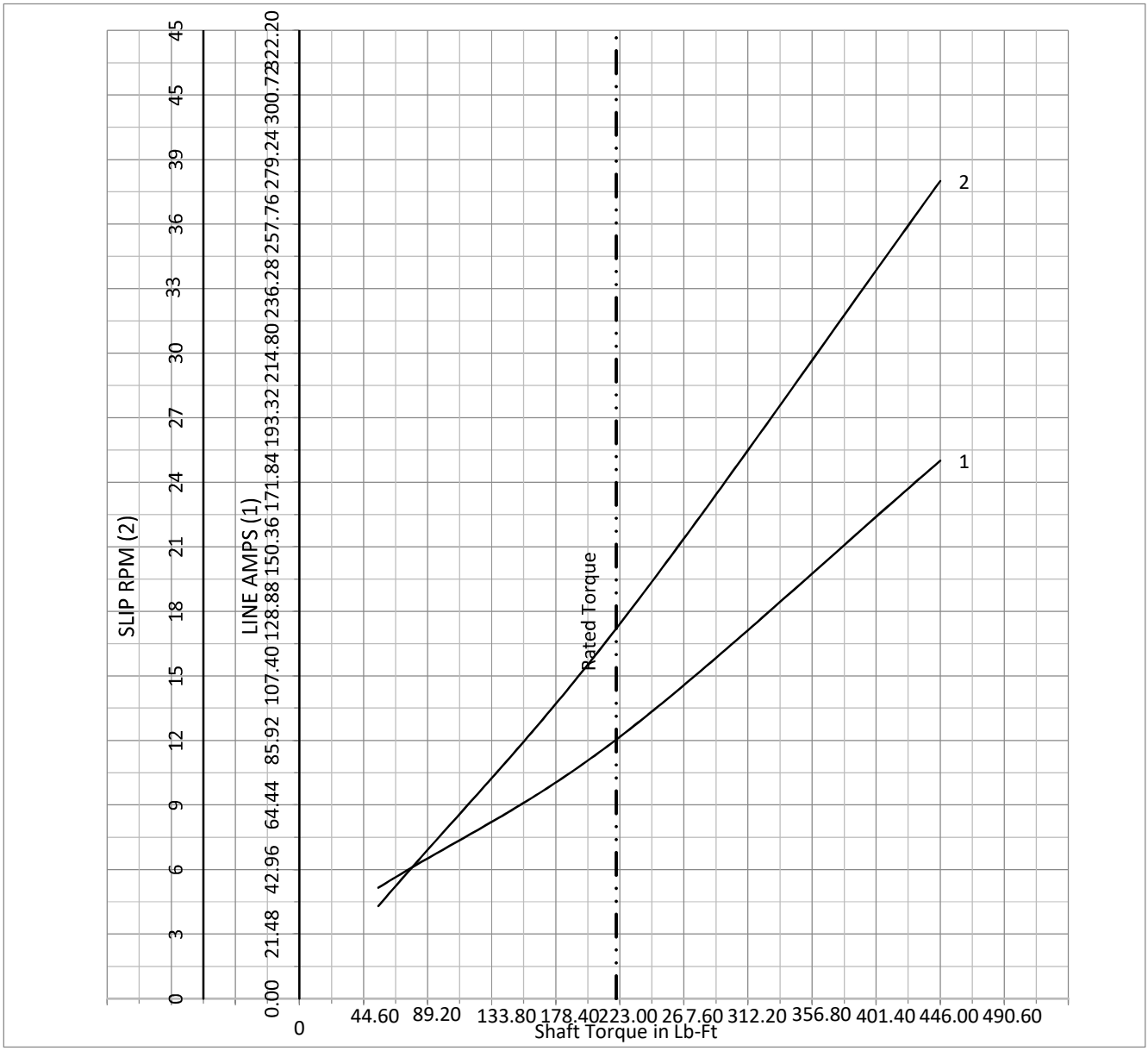
A36WG4073

Record: 76727

NP VOLTS	230/460	0	0	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
NP AMPS	172/86	Base Volt	460	R1	0.045	X1	0.239
HP	75	NL AMPS	30.80	R2	0.225	X2	0.110
BASE SPEED	1782.800049	Slip (HZ)	0.57	R2B	0.021	X2B	0.339
PHASE/HZ	3/60	WK2 (lb-ft2)	0.000	R2E	0.005	XM	7.820

Vector PWM Inverer Duty

Vaiable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

A36WG4073

Record: 76727

DUTY MASTER ALTERNATING CURRENT MOTORS

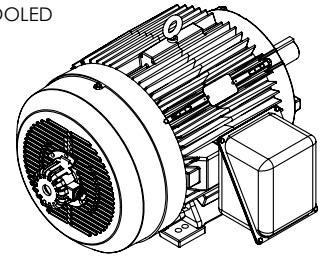
SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

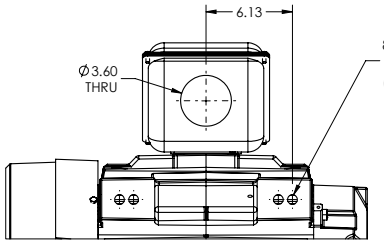
617438-426

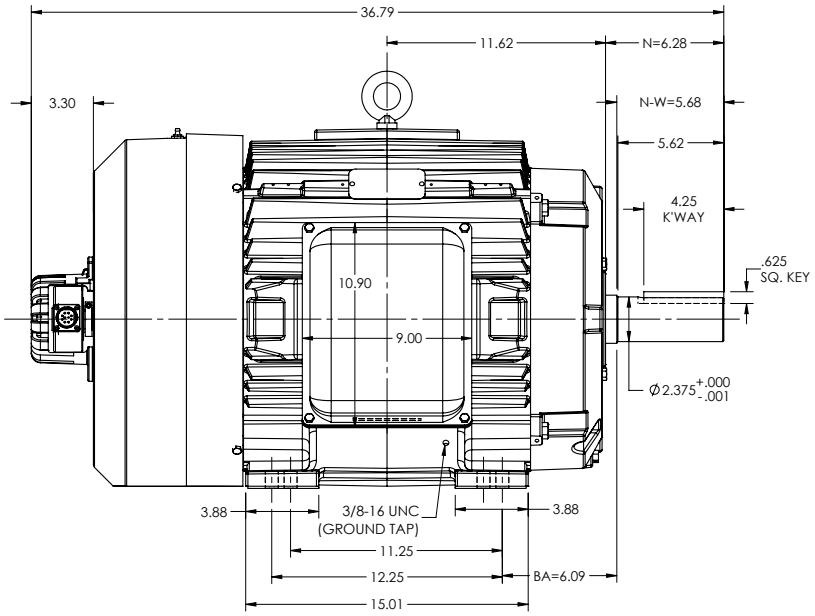
ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

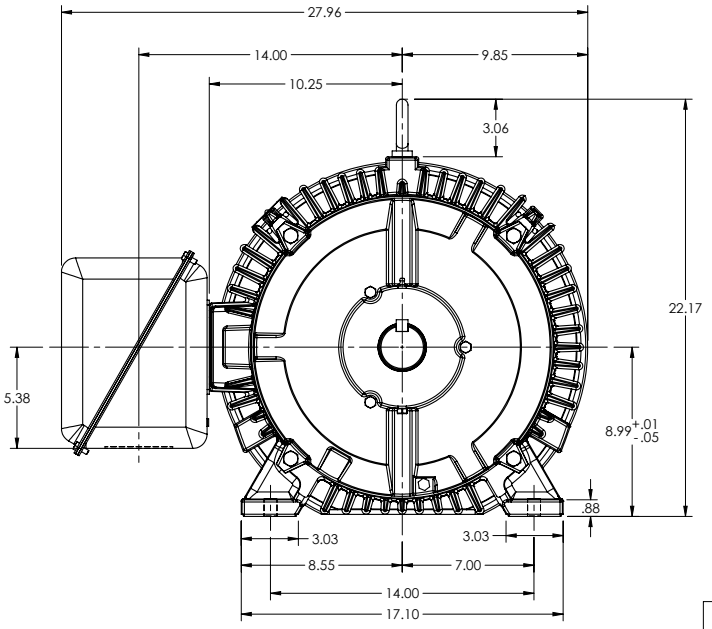
FRAMES 365T

COOLING: FAN COOLED









MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF SHAFT EXTENSION IS .002 T.I.R.

WEIGHT (LBS): 944
MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: REPLACED 611740-200 FOR P36G3220			
REV: -	VERSION: 00	REVISED: 08:36:31 09/26/2023	TDR: 000001217351
MODEL NO. 617438-426			REF: -
BY: USALMAZ			B

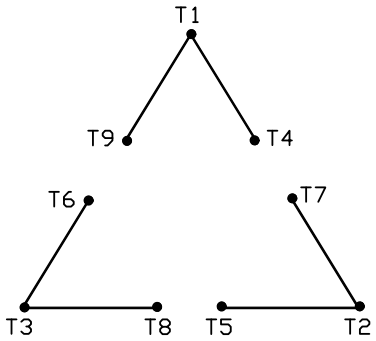
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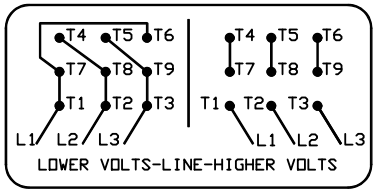
365T TEFC F1 FT CI 2X3" -

617438-426

416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED





(N. P. 1575-B)

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1

416820-002