



Customer information packet

ZDVSM4316T

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

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

NP VOLTS	230/460	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 200C)					
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

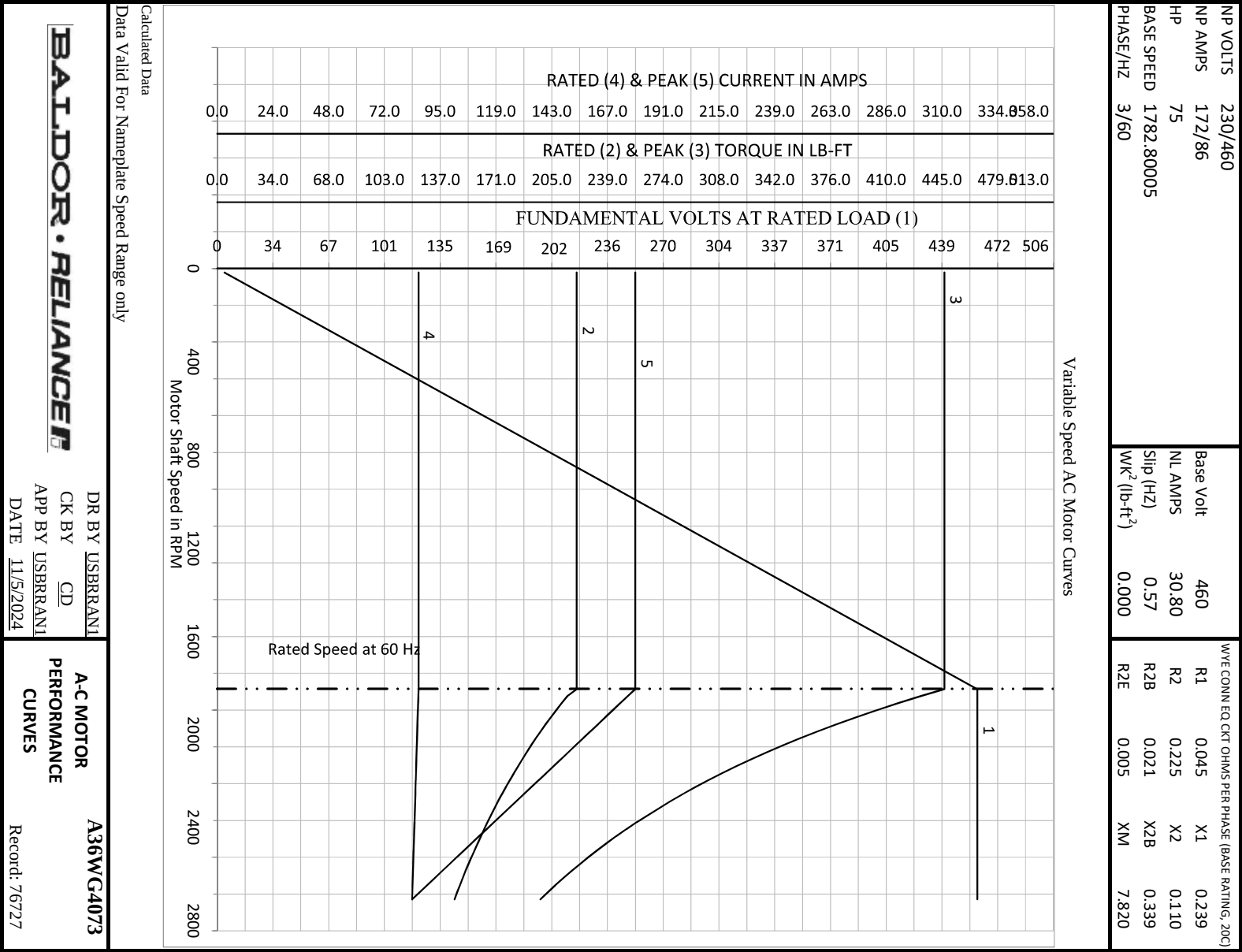
Load Performance at Base Speed

	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	L R Amps	Frame	CFM

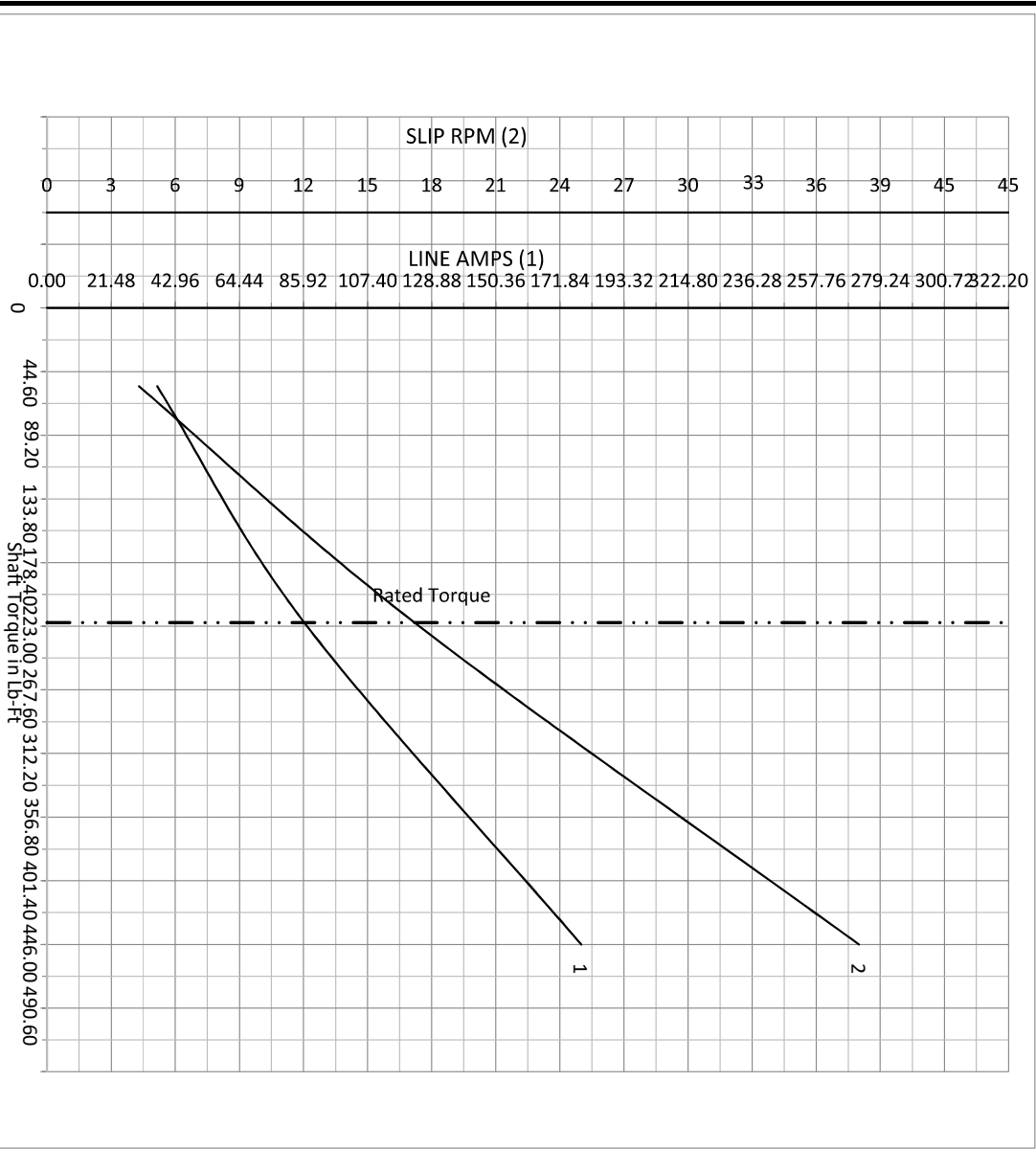
Remarks: Calculated Data

BALDOR • RELIANCE		
DR BY	USBRRANI	A-C MOTOR PERFORMANCE CURVES
CK BY	CD	
APP BY	USBRRANI	
DATE	11/5/2024	
		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 Inverter Duty
Variable Speed AC Motor Curves



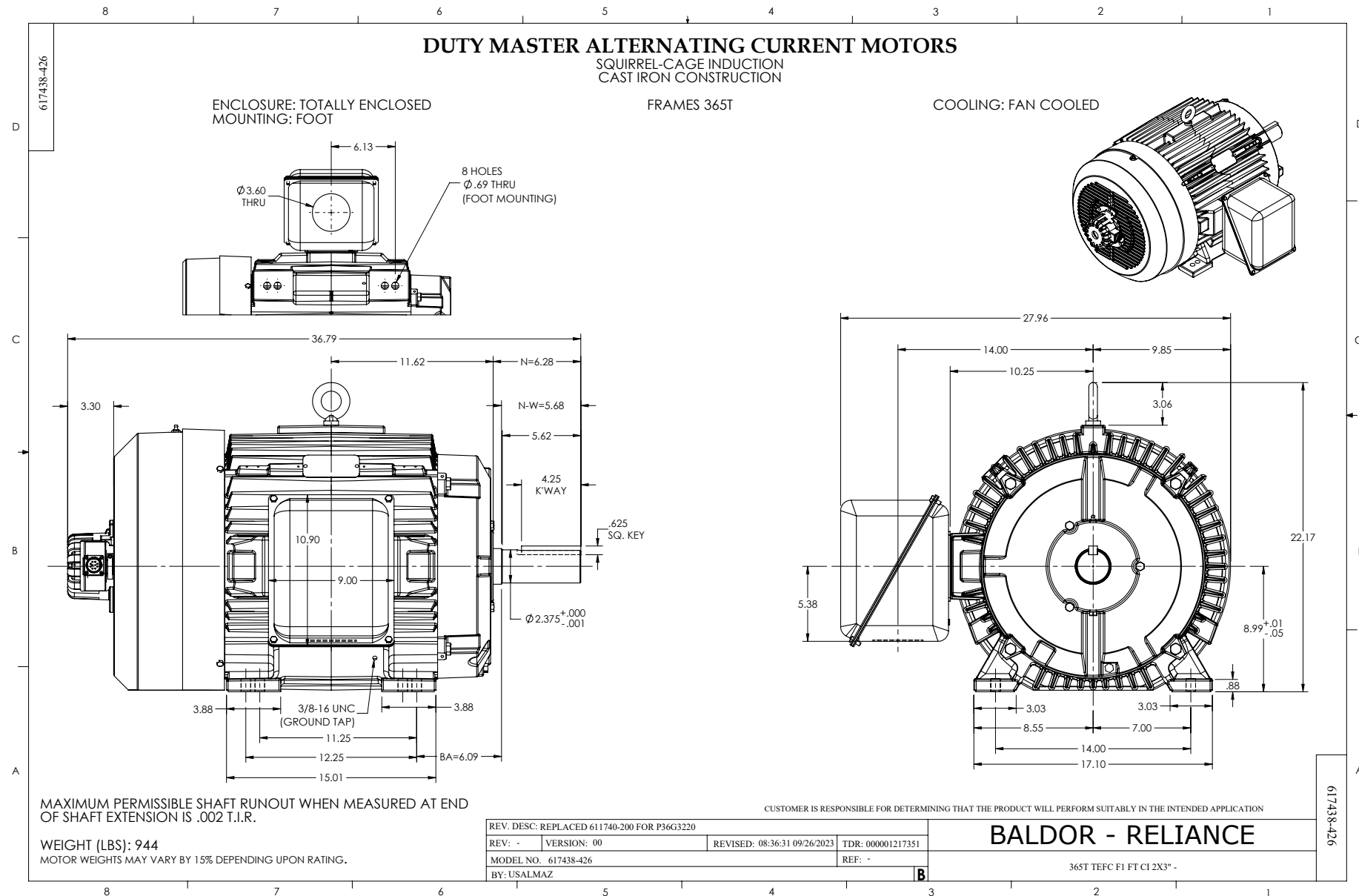
Calculated Data

Data Valid For Nameplate Speed Range only



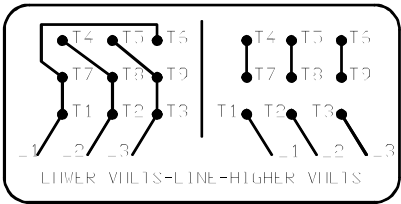
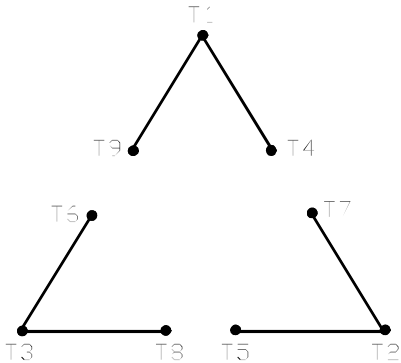
DR BY USBRRANI
CK BY CD
APP BY USBRRANI
DATE 11/5/2024

A-C MOTOR A36WG4073
PERFORMANCE
CURVES
Record: 76727



416820-002

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



(N.P. 1575-B)

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: A	VERSION: 01	TDR: 000001009382
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CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
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