

ABB BALDOR RELIANCE III

Customer information packet

EWDM4313T

75HP, 3555RPM, 3PH, 60HZ, 365TS, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	80.700 A @ 460.0 V 161.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	80.7 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	IP55
KVA Code	G

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG0319
Layout	617428-298
Eff. date	10-01-2021
CD Diagram	416820-002
Poles	02
Leads	3#2,6#4
Proprietary	False
Created date	08-30-2019

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A36068M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	31.35 IN
Power Factor	92
Product Family	Washdown Features
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3555 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP2428L

SPEC NO.	A36-7830-0319			CAT.NO.	EWDM4313T					FRAME	365TS		
HP	75	VOLTS	230/460		PHASE	3	DESIGN	B	TYPE	P			
RPM	3555	AMPS	161/80.7		HZ	60	AMB	40	SF	1.15			
DRIVE END BEARING	65BC03JGG30A		DUTY	CONT	INSUL.CLASS			F					
OPP D.E. BEARING	65BC03JGG30A		ENCL	TEFC	CODE	G							
SER.NO.				POWER FACTOR		92	NEMA-NOM-EFFICIENCY					94.5	
						MAX CORR KVAR			5	GUARANTEED EFFICIENCY			93.6
IP55						NEMA NOM/CSA QUOTED EFF							
4:1CT AND 4:1VT ON VPWM INVERT						ER, 1.00SF			MOTOR WEIGHT				

Parts List

Part number	Description	Quantity
SA373602	SA A36-7830-0319	1.000 ea
RA363409	RA A36-7830-0319	1.000 ea
421948032	LABEL, MYLAR	1.000 ea
NP2496L	MOTOR LUBE NAMEPLATE	1.000 ea
000613006PU	N/P (RELEASE QTY 10,000) UL CSA LABEL	1.000 ea
000692000CY	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
NP2428L	WASHDOWN DUTY MOTOR, SS, CC, CSA-C	1.000 ea
085922073B	BRKT 360 085922072WCC KB	1.000 ea
415072001B	CLAMP	1.000 ea
078559075	FAN CVR E360 TEFC W/ NO LUBE ENTRY	1.000 ea
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 ea
412118006A	DRAIN	1.000 ea
702675001C	FAN 360	1.000 ea
004824015A	GREASE POLYREX EM	0.540 lb
032018012DN	HHCS 1/2-131-1/2 304S.S.	4.000 ea
032018008AN	HHCS 1/4-20X1 304 S.S.	4.000 ea
032018024CN	HHCS 3/8-16X3 304 S.S.	3.000 ea
415045002E	SLGR	1.000 ea
410700004F	WSHR	1.000 ea
423709011C	WASHER	3.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690001AB	1/8" NPT SQHDPLG	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
085922083BG	BRKT 360 085922072WCC	1.000 ea
032018012DN	HHCS 1/2-131-1/2 304S.S.	4.000 ea
032018024CN	HHCS 3/8-16X3 304 S.S.	3.000 ea
415045002E	SLGR	1.000 ea
415028001AL	SEAL	1.000 ea
412118006A	DRAIN	1.000 ea

423709011C	WASHER	3.000 ea
076708141	CAST IRON 3" LEAD OUTLET	1.000 ea
065776000C	GASKET,MAIN CBOX, 320-400	1.000 ea
076709000A	C/B Cover - 360	1.000 ea
067053000B	GASK 320-400	1.000 ea
032018006AN	HHCS1/4-20X3/4304S.S.-360	4.000 ea
032018010CN	HHCS 3/8-16X1-1/4 304S.	4.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea
034000014AF	WSHR 3/8 304 S.S.	4.000 ea
004824003AJF	WILKO781.01 WHITE2 COATS - MG1025W01	0.250 ga
033775004EA	DRSCR #6-1/4 304 S.S.	4.000 ea
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180016GA	KEY 1/2X1/2X2 L	1.000 ea
14PA1000	PACKAGING 314 GROUP COMBINED PRINT	1.000 ea
HW1000A32	5/16 FL WASHER WIDE,ID=.344,OD=1.125	3.000 ea
032509020C	CARRIAGE BOLT - 360	3.000 ea

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	365TC	75	P	3/60	3555	230/460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
161/80.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
892019	418141005TE	---	---	.0186/.0744		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	15.5	3600	8.92	0	
1/4	18.8	24.5	3589	77.9	92.0	
2/4	37.5	40.8	3578	90.8	94.8	
3/4	56.2	60.0	3567	92.2	95.3	
4/4	75.0	80.7	3555	91.6	95.1	
5/4	93.8	102	3542	90.9	94.6	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	218	242	536	
PULL UP		1565	190	210	440	
BREAKDOWN		3395	230	255	259	
FULL LOAD		3555	100	111	80.7	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 94.5 % GUARANTEED MIN. EFF. 93.6%						
		DR. BY	J. J. HARRISON	A-C MOTOR PERFORMANCE DATA		
		CK. BY	G. R. WEBB			
		APP. BY	W. L. SMITH			
		DATE	10/16/02			
			A36WG0319-R001 ISSUE DATE 04/14/21			

REL S.O.

RPM 3555

S.F. 1.15

ROTOR 418141005TE

FRAME 365TC

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 161/80.7

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

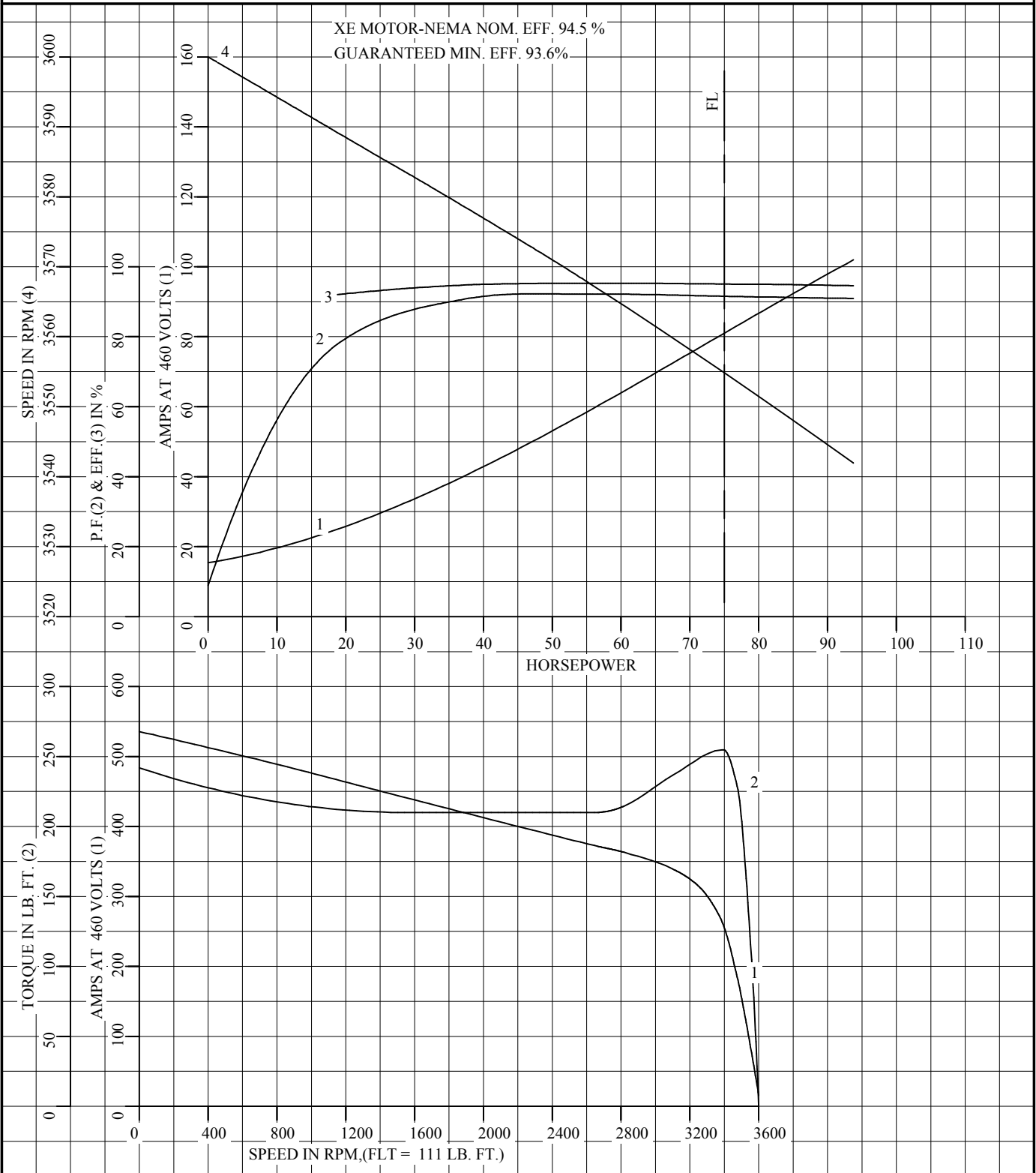
STATOR RES. @ 25 °C .0186/.0744

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 892019

OHMS (BETWEEN LINES)



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

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY J.J. HARRISON
CK. BY G. R. WEBB
APP. BY W.L. SMITH
DATE 10/16/02

**A-C MOTOR
PERFORMANCE
CURVES**

A36WG0319-R001

ISSUE DATE 04/14/21

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REL. S.O.

 RPM **3555**

 S.F. **1.15**

 ROTOR **418141005TE**

 FRAME **365TC**

 VOLTS **230/460**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **75**

 AMPS **161/80.7**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

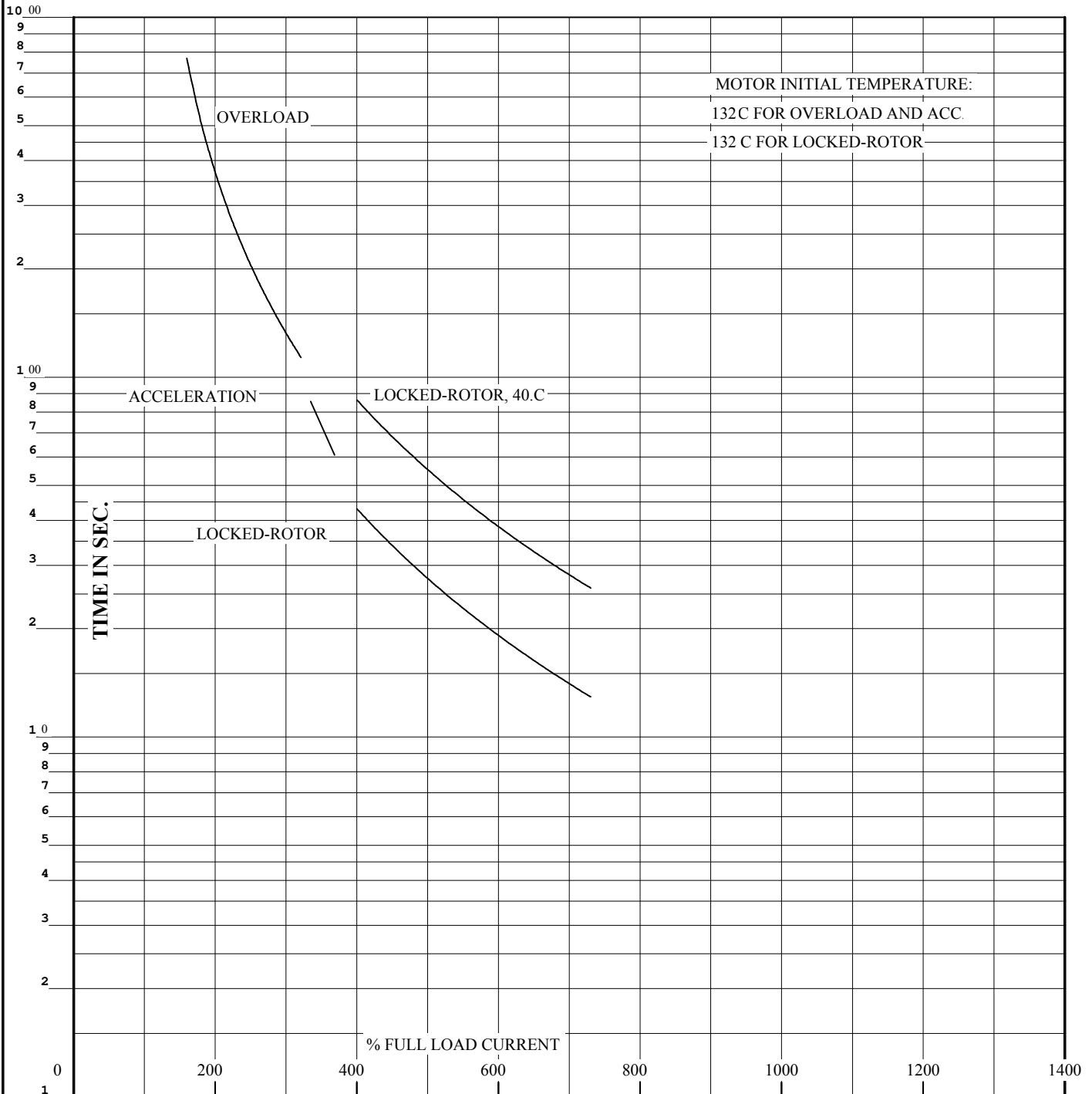
 STATOR RES. @ 25 °C **.0186/.0744**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **892019**

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

XE MOTOR-NEMA NOM. EFF. 94.5 %

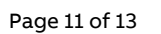
GUARANTEED MIN. EFF. 93.6%

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

BALDOR
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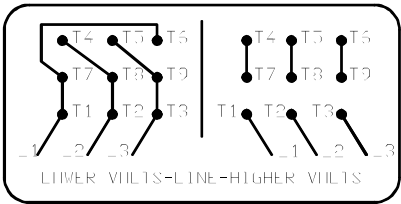
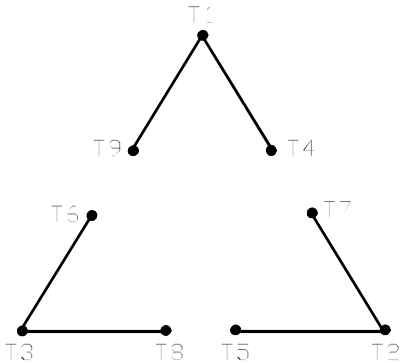
 DR. BY J.J.HARRISON
CK. BY G. R. WEBB
APP. BY W.L.SMITH
DATE 10/16/02
**A-C MOTOR
PERFORMANCE
CURVES**
A36WG0319-R001

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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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BALDOR - RELIANCE®

CONN DIAG — STANDARD 9 LEAD, DELTA-CONNECTED
SH 1 of 1

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