

ABB BALDOR RELIANCE III

Customer information packet

ECR9506TR

50HP, 1180RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	365T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV NEMA PREMIUM NEMA_PREMIUM UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Mobil SHC 220 (Athens Only)
Constant Torque Speed Range	6-60
Current @ Voltage	61.900 A @ 460.0 V 124.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	61.9 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	R
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A36WG3910
Layout	617428-034
Eff. date	02-09-2026
CD Diagram	416820-002
Poles	06
Leads	9#4
Proprietary	False
Created date	02-02-2015

KVA Code	G
Lifting Lugs	No Lifting Lugs
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	9 @ 4 AWG
Motor Standards	NEMA
Motor Type	A3668M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	33.49 IN
Power Factor	80
Product Family	Crusher / Chipper
Pulley End Bearing Type	Roller
Pulley Face Code	Standard
Service Factor	1.25
Shaft Diameter	2.374 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate
NP3980LUA

CAT #	ECR9506TR					SER						CC	010A				
SPEC	P36G3501					RATING	40C AMB-CONT										
HZ	VOLTS			AMPS			RPM	HP	CODE	SF	DES	PF	NEMA NOM. EFF				
60	230/460			124/61.9			1180	50	G	1.25	A	80	%	94.1	%		
	-												%		%		
PH	3	CL	F	MAX CORR KVAR 15.4													
BRG	DE	NU313	ODE		6313	ENCL	TEFC	FR	365T			55					
GREASE		MOBIL SHC 220								MTR WT		923	LBS				
USABLE AT		50HZ 40HP 190/380V 120/60A								SF1.0							
INV READY		1.0 SF VPWM		CT	10-60	HZ	6:1	VT	0-60	HZ	1000:1	CHP	60-90	HZ	1.5:1		
MAX RPM		2700	SFA 152/76														

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECR9506TR - 50HP, 1180RPM, 3PH, 60HZ, 365T, A3668M, TEFC, F						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			365			50			P			3/60			1185			230/460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
124/61.9			CONT			40/F			1.25			A			G			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
---			418141-080-TE			---			---			.0290/.116								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			25.8			1200			4.36			0					
1/4			12.5			29.5			1196			44.0			90.5					
2/4			25.0			37.9			1192			66.0			93.8					
3/4			37.5			48.9			1188			76.0			94.3					
4/4			50.0			61.9			1183			80.4			94.1					
5/4			62.5			76.4			1178			81.9			93.5					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			269			598			371					
PULL UP						740			192			425			296					
BREAKDOWN						1115			249			553			204					
FULL LOAD						1183			100			222			61.9					
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.																				
TYPICAL DATA NEMA NOM EFF 94.1 PCT.																				
						DRAWN BY: <u>T.KELATI</u> CHECKED BY: <u>T. KELATI</u> APPROVED BY: <u>E.J.CHRISTIAN</u> DATE: <u>02/03/2015</u>						AC MOTOR PERFORMANCE DATA			A36WG3910-R002 DATE ISSUED 03/24/23					

FRAME 365

RPM 1185

S.F. 1.25

ROTOR 418141-080-TE

HP 50

VOLTS 230/460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

TYPE P

AMPS 124/61.9

CODE LETTER G

TEST DATE ---

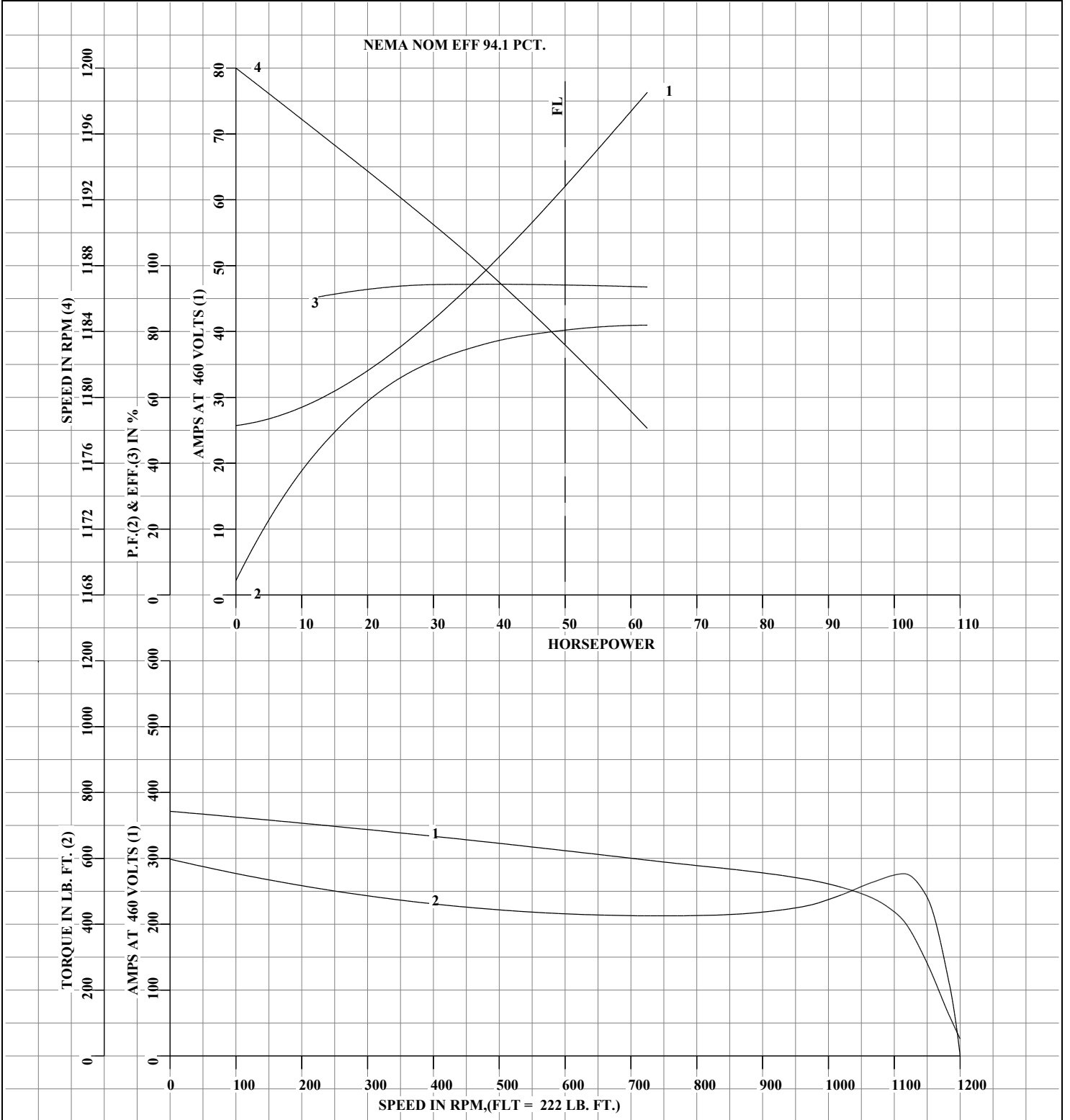
PHASE / HERTZ 3/60

DUTY CONT

ENCLOSURE TEFC

STATOR RES. @ 25°C .0290/.116

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



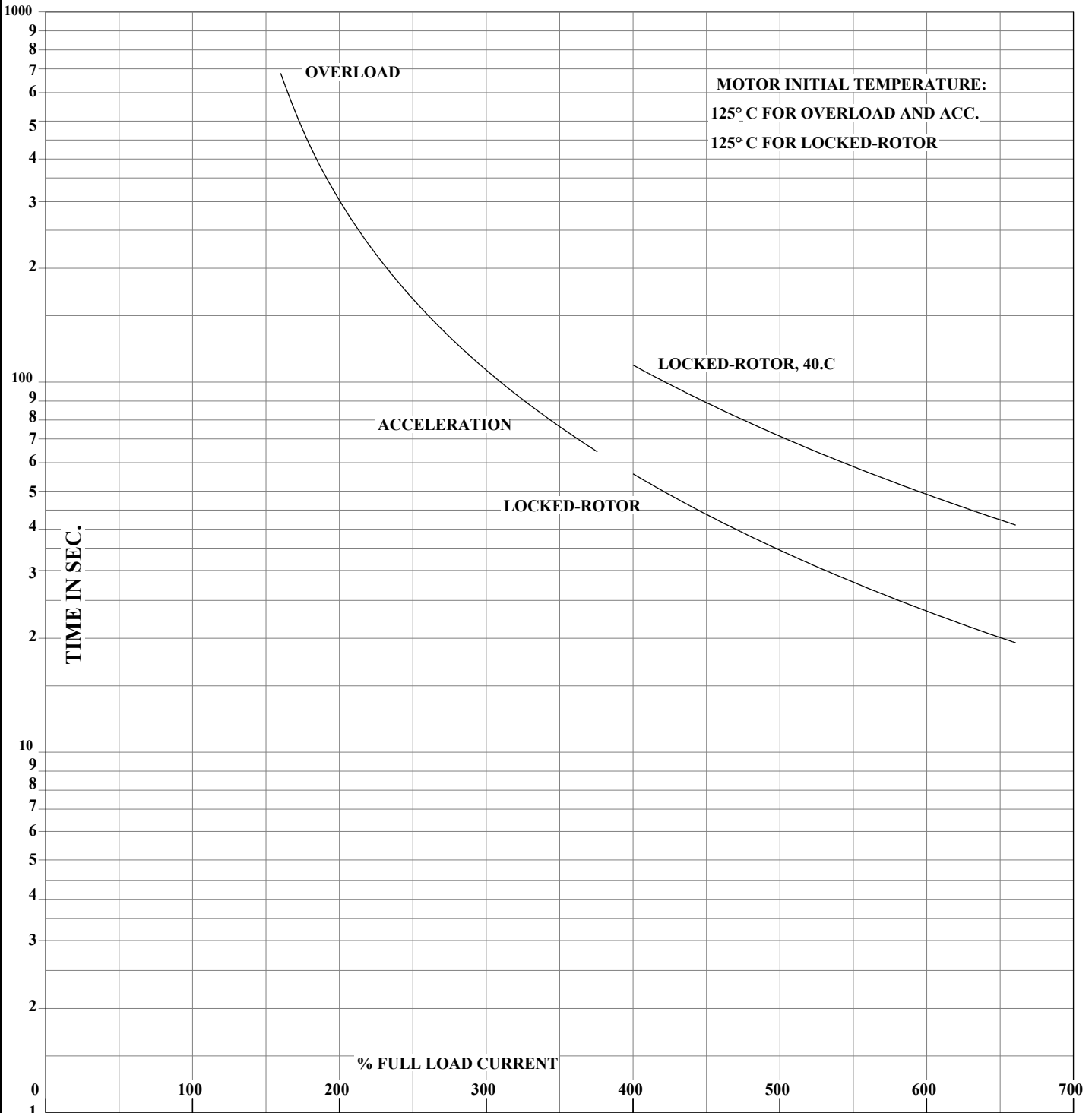
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AC MOTOR
PERFORMANCE
DATA

A36WG3910-R002

ISSUE DATE 03/24/23

FRAME 365	RPM 1185	VOLTS 230/460	NEMA DESIGN A	ROTOR 418141-080-TE	TEST S.O. TYPICAL DATA
HP 50		AMPS 124/61.9	CODE LETTER G		TEST DATE ---
TYPE P		DUTY CONT	ENCLOSURE TEFC		STATOR RES. @ 25°C .0290/.116
PHASE / HERTZ 3/60		AMB °C / INSUL 40/F	E/S ---		OHMS (BETWEEN LINES)



**THERMAL LIMIT CURVE
NEMA NOM EFF 94.1 PCT.**

AMPERES SHOWN FOR 230/460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

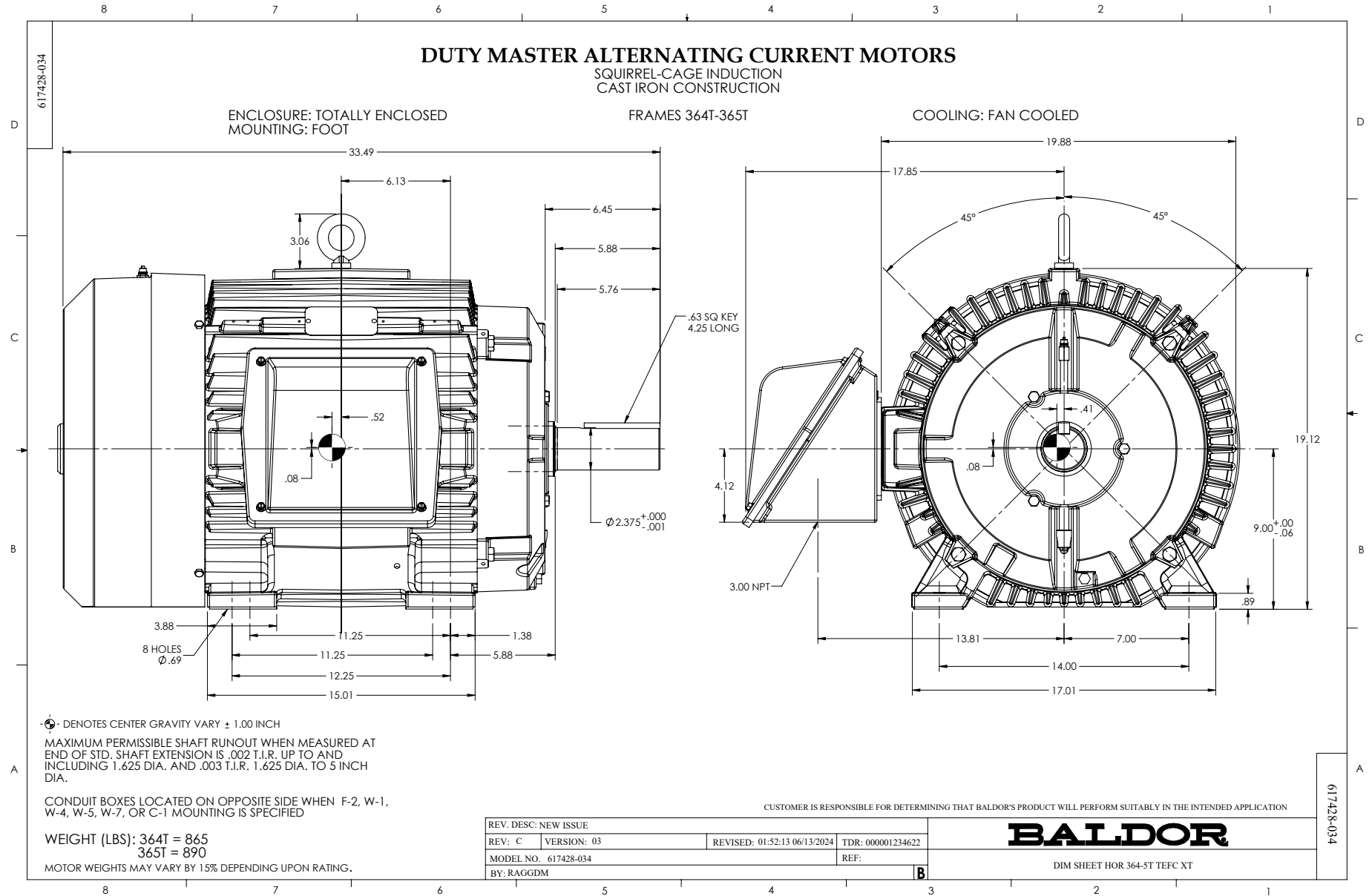


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**AC MOTOR
PERFORMANCE
DATA**

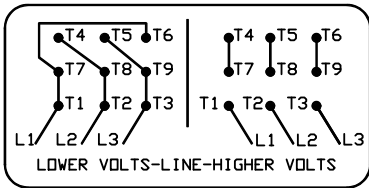
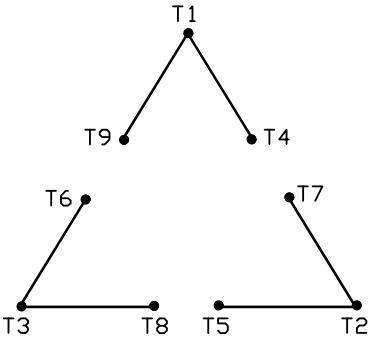
A36WG3910-R002

ISSUE DATE 03/24/23



416820-002

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



(N. P. 1575-B)

416820-002

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: -		



CONN DIAG - STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1