

ABB BALDOR RELIANCE III

Customer information packet

CXT31504T-5

150HP, 1785RPM, 3PH, 60HZ, 445TC, A4488M, TEFC

Class - None

Division - Division II

Specifications

Enclosure	TEFC
Frame	445TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	150.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CCSAUSEEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	135.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	135.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G
Max Speed	2700 rpm

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	NLA/A
Elec. spec.	A44WG3784
Layout	617427-802
Eff. date	09-29-2026
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	09-16-2021

Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	NEMA
Motor Type	A4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	44.97 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.00
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4152LUA																			
CAT #		CXT31504T-5				SER				CC		010A							
SPEC		A44-0003-3784				RATING		40C AMB-CONT											
HZ		VOLTS		AMPS		RPM		HP	CODE		SF	DES	PF	NEMA NOM. EFF					
60		575		135		1785		150	G		1.15	B	87	%	95.8	%			
														%		%			
PH	3	CL	F	MAX RPM		2700	MAX CORR KVAR			28									
BRG		DE	6318		ODE	6318		ENCL	TEFC	FR	445TC		IP	54					
GREASE		POLYREX EM								MTR WT				LBS					
CL I DIV 2 GRPS A,B,C,D						CL I ZONE 2 GRPS						IIA,IIB,IIC			TEMP T	200	C		
INV READY			CT	4:1		HZ	15-60		VT	1000:1		HZ	0-60		CHP	1:1.5		HZ	60-90
INV TEMP CL			T3	C	USABLE AT		N/A												

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445LP	150	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
135	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
498866	418143053AE	---	---	.0465		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	39.2	1800	4.26	0	
1/4	37.6	55.3	1796	54.4	93.6	
2/4	75.0	77.5	1792	75.8	95.7	
3/4	112	105	1788	83.7	96.0	
4/4	150	135	1784	86.9	95.8	
5/4	188	167	1779	88.1	95.3	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	130	572	866	
PULL UP		270	116	511	816	
BREAKDOWN		1729	280	1237	463	
FULL LOAD		1784	100	442	135	
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA NEMA NOMINAL EFFICIENCY = 95.8%						
		DR. BY	W. L. SMITH	A-C MOTOR PERFORMANCE DATA A44WG3784-R008 ISSUE DATE 02/02/21		
		CK. BY	C. E. JAMISON			
		APP. BY	W. L. SMITH			
		DATE	10/11/19			

REL S.O.

 RPM **1785**

 S.F. **1.00**

 ROTOR **418143053AE**

 FRAME **445LP**

 VOLTS **575**

 NEMA DESIGN **B**

 TEST S.O. **TYPICAL DATA**

 HP **150**

 AMPS **135**

 CODE LETTER **G**

 TEST DATE **---**

 TYPE **P**

 DUTY **CONT**

 ENCLOSURE **TEFC**

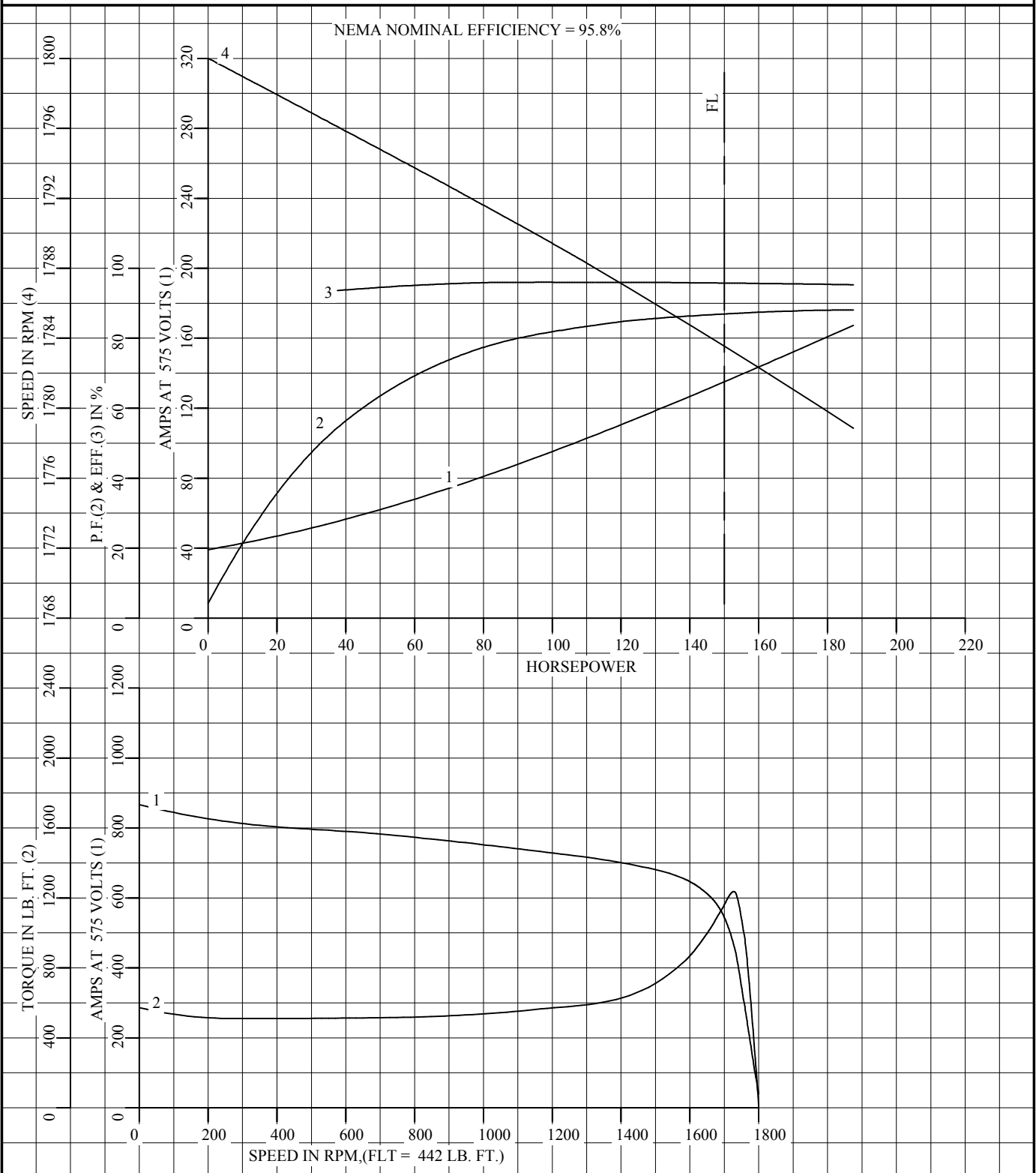
 STATOR RES. @ 25 °C **.0465**

 PHASE/HERTZ **3/60**

 AMB °C/INSUL **40/F**

 E/S **498866**

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

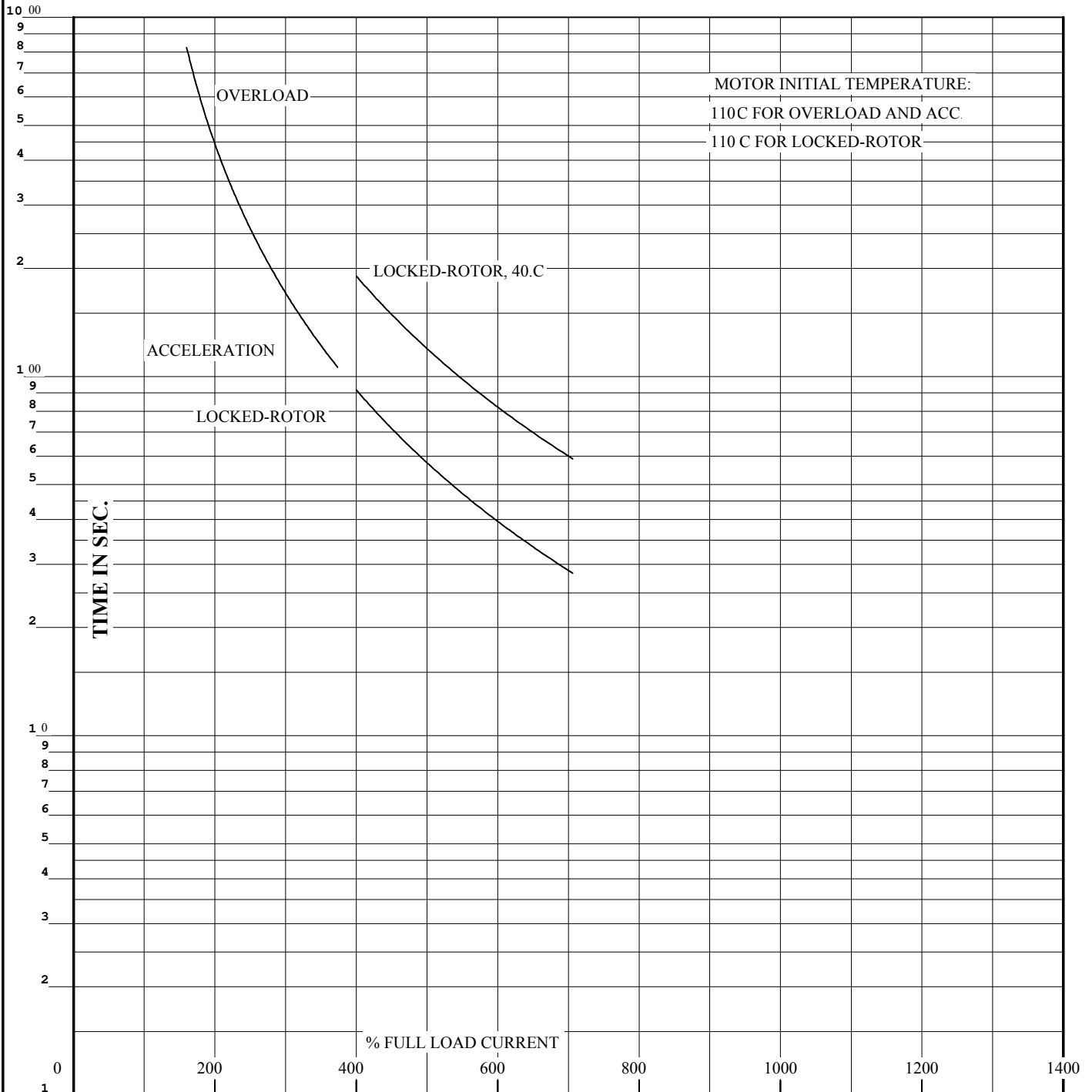
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY W. L. SMITH
CK. BY C. E. JAMISON
APP. BY W. L. SMITH
DATE 10/11/19

**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3784-R008
ISSUE DATE 02/02/21

REL. S.O.	RPM 1785	S.F. 1.00	ROTOR 418143053AE
FRAME 445LP	VOLTS 575	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 150	AMPS 135	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .0465
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 498866	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: NEMA NOMINAL EFFICIENCY = 95.8%

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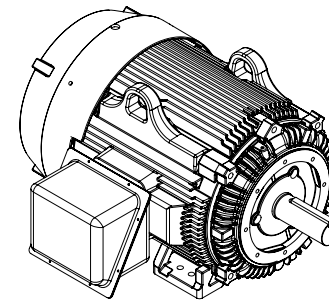
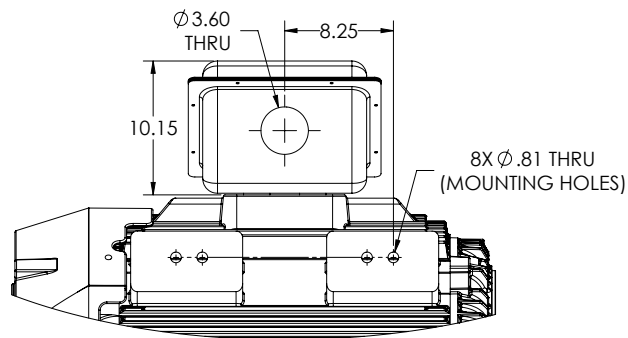
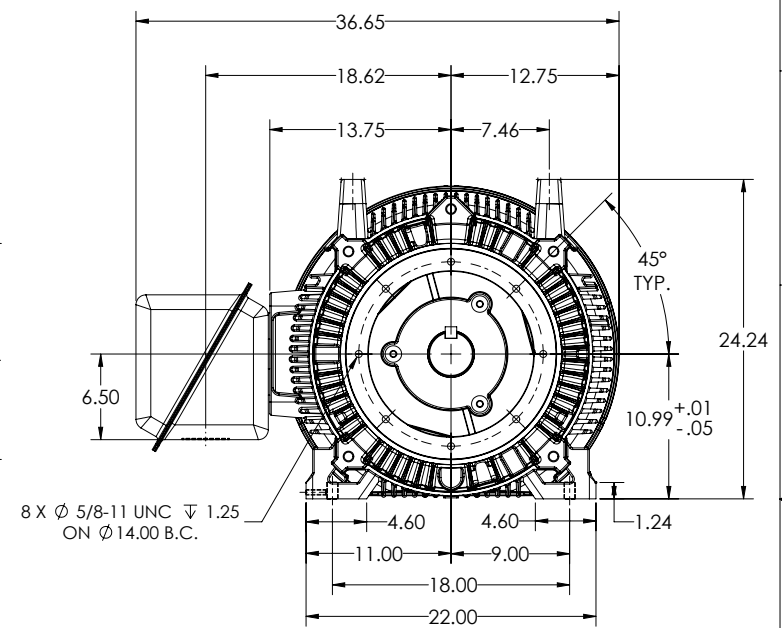
**A-C MOTOR
PERFORMANCE
CURVES**

A44WG3784-R008

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617427-802

COOLING: FAN COOLED

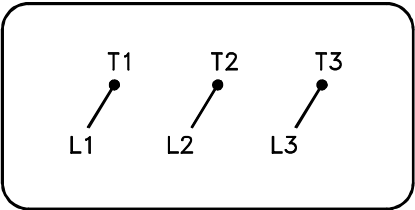


617427-802

BALDOR

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