

ABB BALDOR RELIANCE III

Customer information packet

ECP84416T-5

200HP, 3575RPM, 3PH, 60HZ, 447TS, A44104M, TEF

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	447TS
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSA US UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	30-60
Current @ Voltage	172.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	172.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG

Part Detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG3931
Layout	617435-474
Eff. date	06-14-2024
CD Diagram	416820-036
Poles	02
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	03-14-2022

Motor Standards	None
Motor Type	A44104M
Mounting Arrangement	F1
No Load Current	38.6 a
Number of Poles	2
Overall Length	44.72 IN
Power Factor	90
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Phase Seq-Std Rot (CCWODE)
Shaft Slinger Indicator	No Slinger
Speed	3575 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566													
CAT NO	ECP84416T-5			SPEC NO.		A44-0000-3931							
HP	200	AMPS	172		VOLTS		575		DESIGN	B			
FRAME SIZE	447TS	RPM	3575	HZ		60	AMB	40	SF	1.15			
D.E. BRG.DATA	6313		O.D.E. BRG.DATA			6313		PH	3	DUTY	CONT	INSUL.CLASS	F
D.E. BRG.	65BC03J30X			TYPE	ENCL	TEFC	CODE	G					
O.D.E. BRG.	65BC03J30X			POWER FACTOR			90		NEMA-NOM-EFFICIENCY			95.4	
3/4 LOAD EFF.		IP	56	MAX CORR KVAR			24.34		GUARANTEED EFFICIENCY			94.5	
TEMP CODE	T2C	TEMP =	230										
CHP HZ	60-75	CT HZ	30-60	VT HZ		0-60							
INVERTER-TEMP-CODE	T2C												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84416T-5	SPEC NO.	A44-0000-3931	
NO. ROTOR BARS	40	GREASE TYPE	POLYREX EM	
NO. SLOTS	48	NL AMPS AT RATED VOLTAGE		38.6
5 YEAR WARRANTY		WINDING RES @25 C	.0227	OHMS
MFG. DATE		SER.NO		

FRAME 447T

RPM 3570

VOLTS 575

NEMA DESIGN B

TEST S.O. CALCULATED DATA

HP 200

AMPS 172

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE FCXE

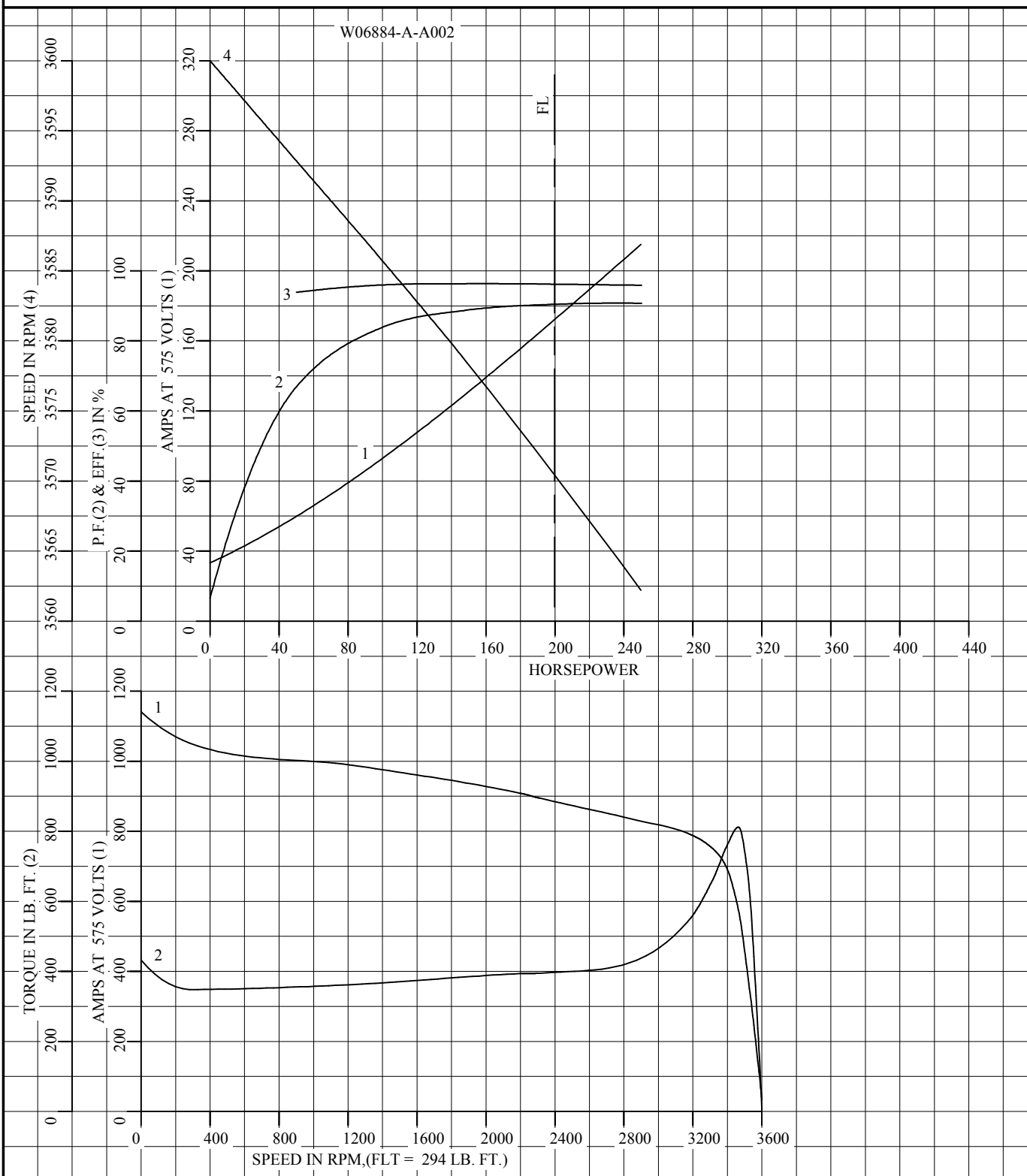
STATOR RES. @ 25 °C .0226

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 833331

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

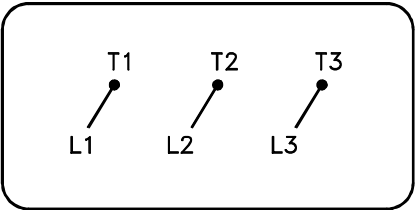
DR. BY J.J.HARRISON
CK. BY W.L.SMITH
APP. BY W.L.SMITH
DATE 07/18/11

**A-C MOTOR
PERFORMANCE CURVES** A44WG3931-R001
ISSUE DATE 07/18/11

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	447T	200	P	3/60	3570	575			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
172	CONT	40/F	1.15	B	G	FCXE			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
833331	418143005AE	---	---	.0226					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	33.3	3600	6.61	0				
1/4	50.0	59.7	3593	66.9	93.9				
2/4	100	93.1	3586	83.9	96.0				
3/4	150	131	3578	88.8	96.3				
4/4	200	172	3571	90.5	96.2				
5/4	250	215	3562	90.8	95.9				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	147	432	1141				
PULL UP		288	119	349	1051				
BREAKDOWN		3464	276	812	573				
FULL LOAD		3571	100	294	172				
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: CALCULATED DATA W06884-A-A002									
		DR. BY J. J. HARRISON		A-C MOTOR PERFORMANCE DATA					
		CK. BY W. L. SMITH							
		APP. BY W. L. SMITH							
		DATE 07/18/11							
				A44WG3931-R001 ISSUE DATE 07/18/11					

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