

ABB BALDOR RELIANCE III

Customer information packet

ECP49352T-4

350HP, 3565RPM, 3PH, 60HZ, 449TS, A44144M, TEF

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	449TS
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	350.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	370.000 A @ 460.0 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	370.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG
Motor Standards	NEMA
Motor Type	A44144M
Mounting Arrangement	F1

Part Detail

Revision	N
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1560
Layout	617423-001
Eff. date	04-08-2021
CD Diagram	416820-036
Poles	02
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	10-19-2010

Number of Poles	2
Overall Length	49.48 IN
Power Factor	91
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3565 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

000613007EW														
CAT.NO.	ECP49352T-4					SPEC NO.		P44G5915						
HP	350	AMPS		370		VOLTS		460			DESIGN		B	
FRAME	449TS	RPM		3565		HZ		60	AMB		40	SF	1.15	
DRIVE END BEARING	65BC03J30X			PH	3	DUTY		CONT		INSUL.CLASS			F	
OPP D.E. BEARING	65BC03J30X			TYPE		P	ENCL		TEFC		CODE		F	
D.E.BRG.DATA	6313			POWER FACTOR				91.4		NEMA NOM EFFICIENCY				95.8
O.D.E.BRG.DATA	6313			MAX CORR KVAR				30.0		GUARANTEED EFFICIENCY				95.4
3/4 LOAD EFF.	95.8		NEMA NOM/CSA QUOTED EFF											
SER.NO.						MOTOR WEIGHT								

ABB BALDOR RELIANCE III							CUSTOMER INFORMATION PACKET							ECP49352T-4 - 350HP, 3565RPM, 3PH, 60HZ, 449TS, A44144M, TEF						
S/O			FRAME			HP			TYPE			PHASE/ HERTZ			RPM			VOLTS		
			449TS			350			P			3/60			3565			460		
AMPS			DUTY			AMB °C/ INSUL			S.F.			NEMA DESIGN			CODE LETTER			ENCLOSURE		
370			CONT			40/F			1.15			B			F			TEFC		
E/S			ROTOR			TEST S.O.			TEST DATE			STATOR RES. @25 °C OHMS (BETWEEN LINES)								
833185			418143004YE			---			---			.00698								
PERFORMANCE																				
LOAD			HP			AMPERES			RPM			% POWER FACTOR			% EFFICIENCY					
NO LOAD			0			64.8			3600			8.42			0					
1/4			87.5			123			3593			71.7			93.2					
2/4			175			198			3586			86.4			95.7					
3/4			263			283			3579			90.3			96.1					
4/4			350			375			3572			90.8			96.1					
5/4			437			471			3564			90.8			95.8					
SPEED TORQUE																				
						RPM			TORQUE % FULL LOAD			TORQUE LB.-FT.			AMPERES					
LOCKED ROTOR						0			177			910			2670					
PULL UP						1620			152			783			2426					
BREAKDOWN						3464			290			1492			1305					
FULL LOAD						3572			100			514			375					
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. - 95.8% GUAR. MIN. EFF. - 95.4 %																				
						DRAWN BY: <u>J.J.HARRISON</u> CHECKED BY: <u>T.KELATI</u> APPROVED BY: <u>T. KELATI</u> DATE: <u>07/09/10</u>						AC MOTOR PERFORMANCE DATA			A44WG1560-R001 DATE ISSUED 03/04/20					

FRAME 449TS

HP 350

TYPE	P
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PHASE / HERTZ 3/60

CUSTOMER INFORMATION PACKET

INFORMATIVE

VOLTS 460

AMPS 370**DUTY CONT**

AMB °C / INSUL 40/F

ECP49352T-4 350HP, 3565RPM, 3PH, 60HZ, 440TS, 444144M, TEF

9352T-41 350

NEMA DESIGN B

CODE LETTER F

ENCLOSURE TEFC

E/S 833185

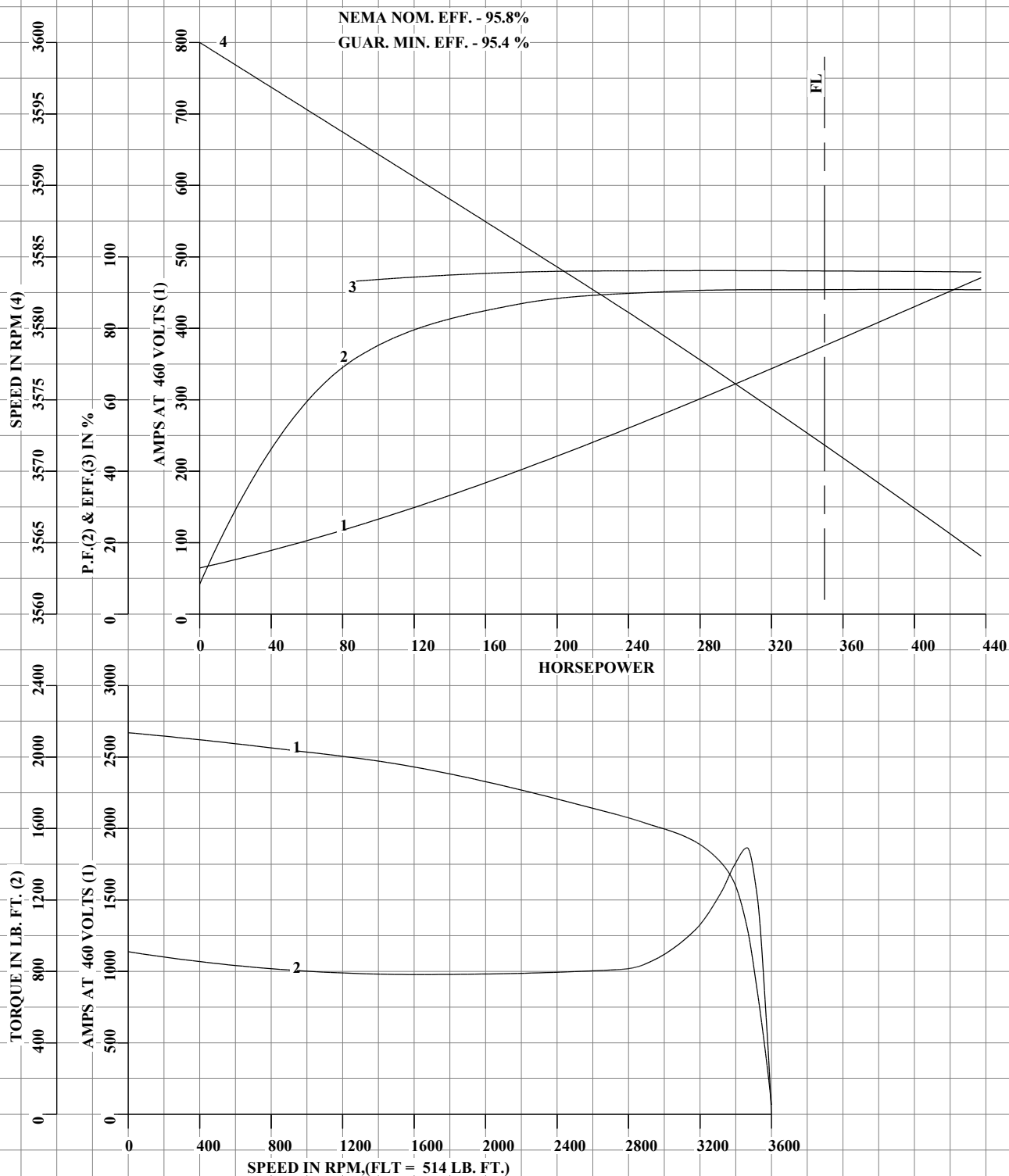
60117 449TS A44144M F
ROTOR 418143004VF

TEST S.O. TYPICAL DATA

TEST DATE ---

STATOR RES. @ 25°C .00698

OHMS (BETWEEN LINES)



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



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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

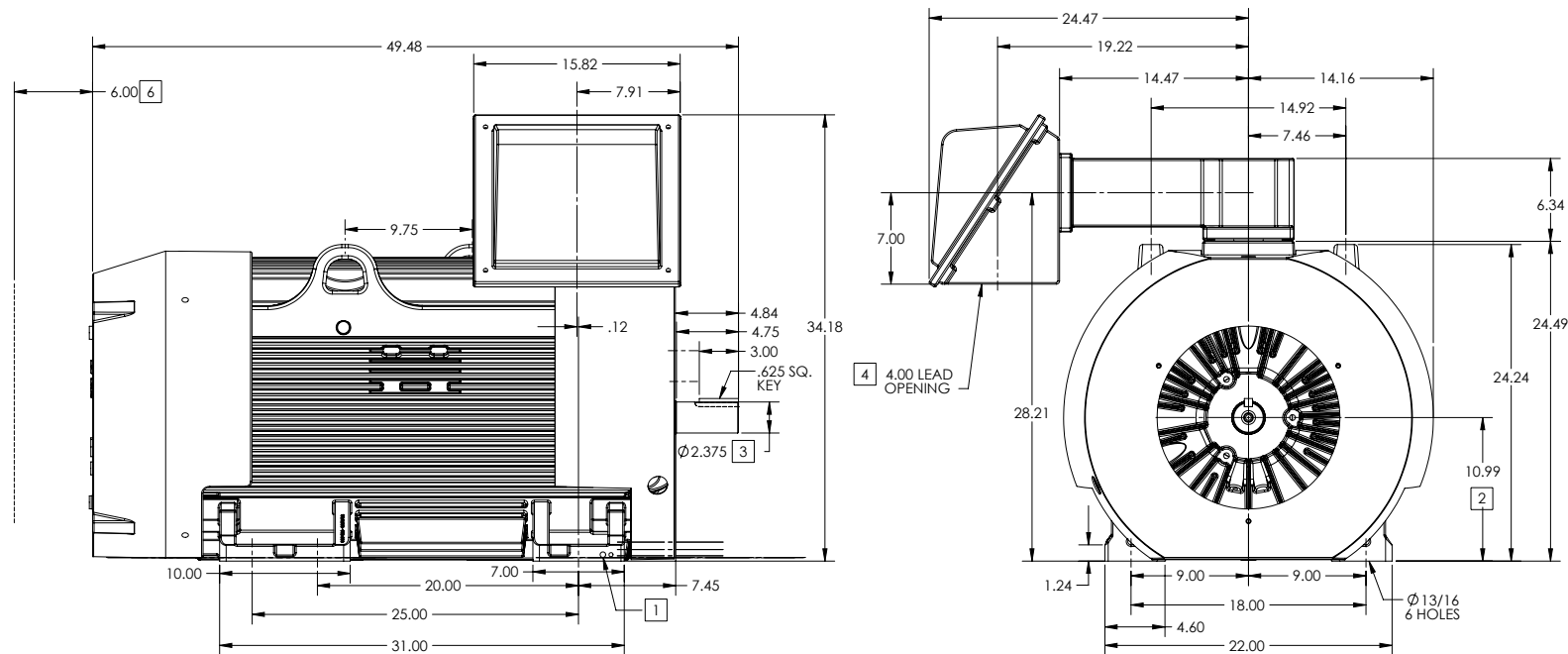
ENCLOSURE: TOTALLY ENCLOSED

FRAME 449TS ABOVE NEMA RATINGS (3600 RPM MAX)

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 447TS FRAME MOUNTING HOLES



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00, -.06
3. VARIES +.00, -.001
4. ON STANDARD MOTORS THIS IS CONDUIT SIZE. ON XT AND CORROSION PROOF MOTOR THIS IS PIPE TAP.
5. MOTOR WEIGHTS MAY VARY BY 1.5% DEPENDING ON RATING.
6. OBSTRUCTION MUST NO ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2.
IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .003" T.I.R. TO 5 INCH DIA.

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: ADD "DRIVE END AIR DEFLECTOR-" NOTE	
REV: B	VERSION: 02
MODEL NO. 617423-001	REVISED: 09-55-44 03/30/2011
BY: MGH/TL	TDR: 00000588597

BALDOR

DIM SHEET G449 TEF

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

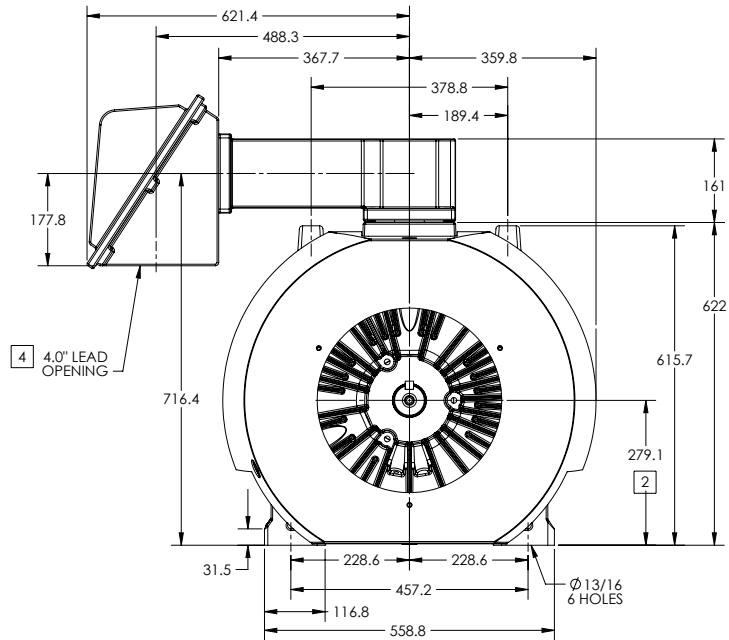
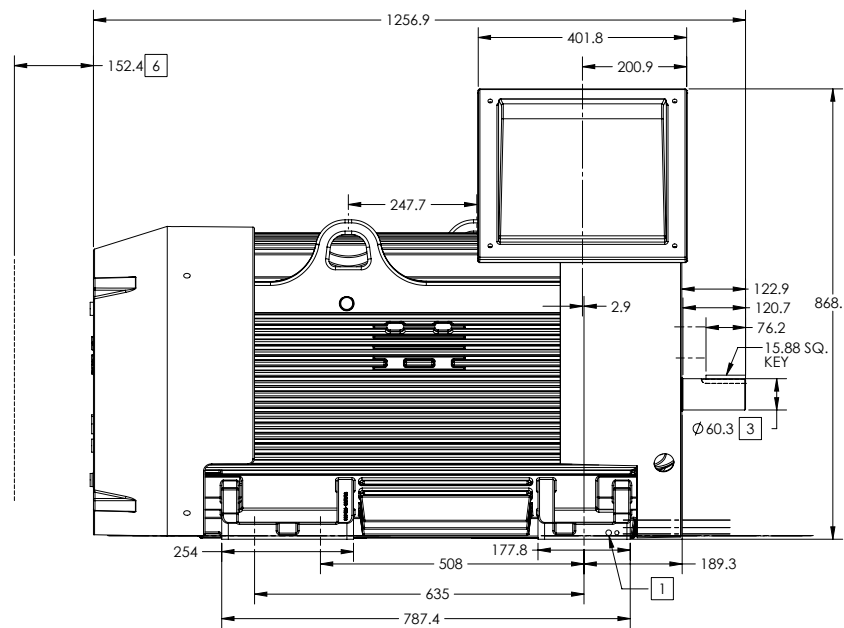
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- OBSTRUCTION MUST NO ENCROACH ON AIR INLET

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IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF
STANDARD SHAFT EXTENSION IS .08 MM T.I.R. TO 127 MM DIA.

DRIVE END AIR DEFLECTOR IS ONLY INCLUDED WHEN NECESSARY.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

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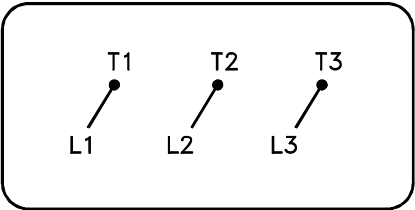
DIM SHEET G449 TEF

100-C2P119

617423-001

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