ABB BALDOR RELIANCE

Customer information packet

ECP44252T-4

250HP, 3570RPM, 3PH, 60HZ, 449TS, A44112M, TEF
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	449TS
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	250.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV
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	269.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.8 %
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T2C
Heater Indicator	No Heater
High Voltage Full Load Amps	269.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 2/0 AWG

Part Detail

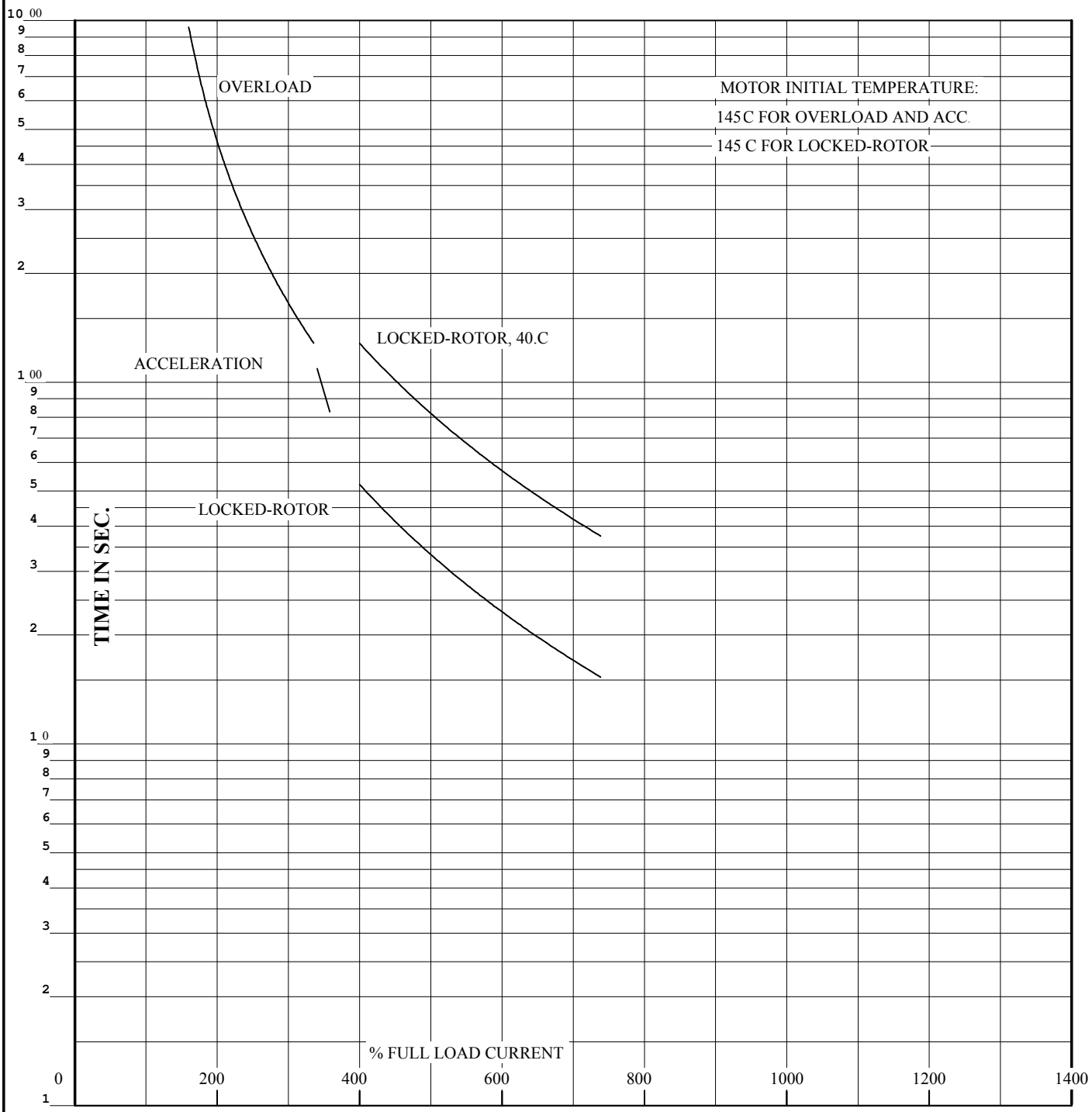
Revision	S
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1559
Layout	617427-006
Eff. date	12-17-2025
CD Diagram	416820-036
Poles	02
Leads	3#2/0 (02 per group)
Proprietary	False
Created date	08-16-2012

Motor Standards	NEMA
Motor Type	A44112M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	49.71 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	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3570 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP3238												
CAT NO	ECP44252T-4		**SPEC NO.**	P44G3950								
HP	250	**AMPS**	269		**VOLTS**	460			**DESIGN**	B		
FRAME	449TS	**RPM**	3570	**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**	P	**ENCL**	TEFC	**CODE**	G				
O.D.E. BRG.	65BC03J30X		**POWER FACTOR**	90			**NEMA NOM EFFICIENCY**			95.8		
3/4 LOAD EFF.	96.3		**MAX CORR KVAR**	28.0			**GUARANTEED EFFICIENCY**			95.4		
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**									

REL. S.O.	RPM 3570	S.F. 1.15	ROTOR 418138004LE
FRAME 449TS	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 250	AMPS 269	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0115
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 833154	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-NEMA NOM. EFF. 95.8 PCT.

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	W. L. SMITH
CK. BY	J.J.HARRISON
APP. BY	W. L. SMITH
DATE	04/07/10

A-C MOTOR PERFORMANCE CURVES

A44WG1559-R001

ISSUE DATE 03/04/2014

Printed on 3/4/14 7:50 @ ragsun

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	449TS	250	P	3/60	3570	460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
269	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
833154	418138004LE	---	---	.0115

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	53.0	3600	6.73	0
1/4	62.5	94.2	3593	66.3	93.7
2/4	125	146	3586	83.6	95.9
3/4	187	206	3578	88.7	96.3
4/4	250	269	3571	90.4	96.2
5/4	312	336	3562	90.7	95.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	154	564	1806
PULL UP	288	125	458	1663
BREAKDOWN	3464	279	1024	903
FULL LOAD	3571	100	367	269

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. 95.8 PCT.

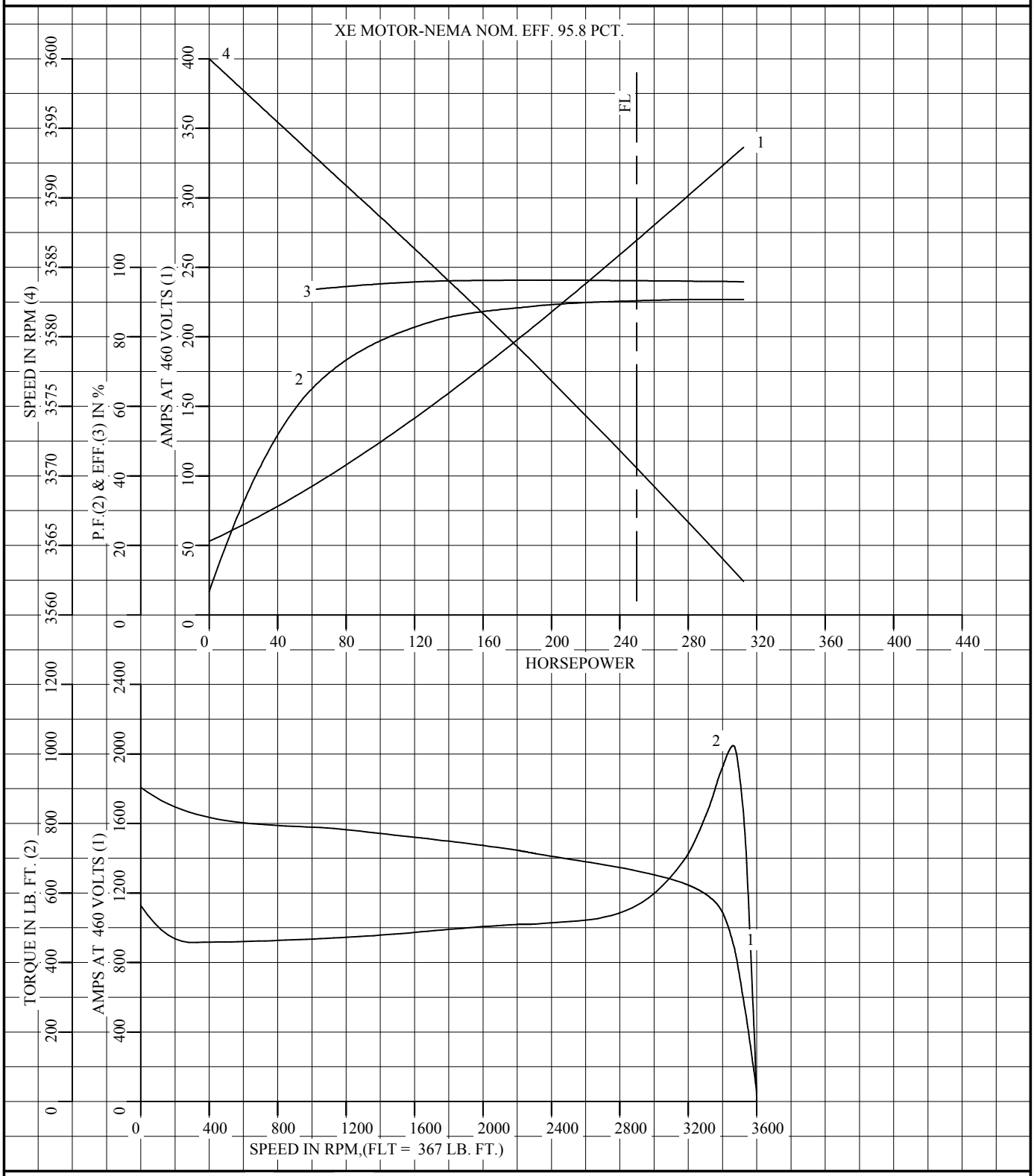
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A-C MOTOR PERFORMANCE DATA

A44WG1559-R001
ISSUE DATE 03/04/20

REL S.O.		RPM	3570	S.F.	1.15	ROTOR	418138004LE
FRAME	449TS	VOLTS	460	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	250	AMPS	269	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.0115
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	833154		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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DR. BY	W. L. SMITH
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DATE	04/07/10

A-C MOTOR PERFORMANCE CURVES

A44WG1559-R001

ISSUE DATE 03/04/2014

Printed on 3/4/14 7:50 @ ragsun

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-006

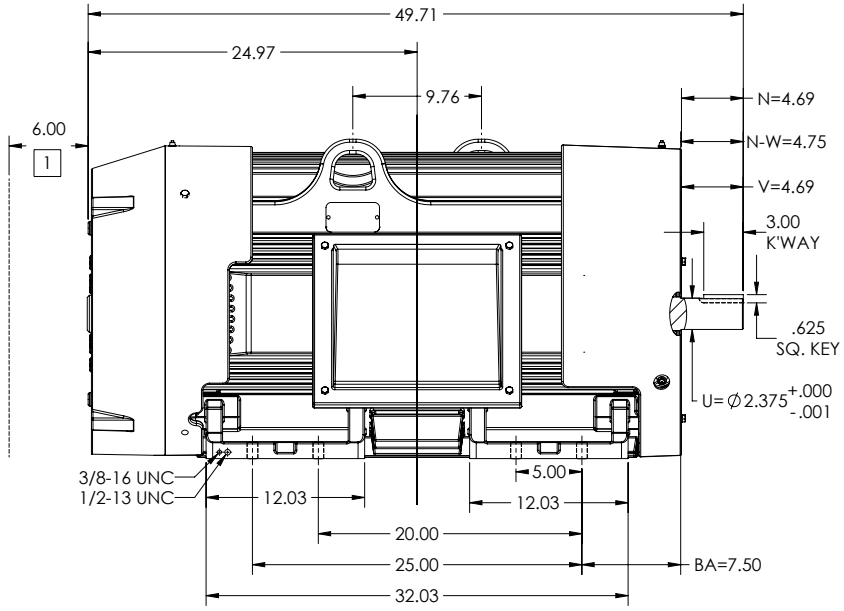
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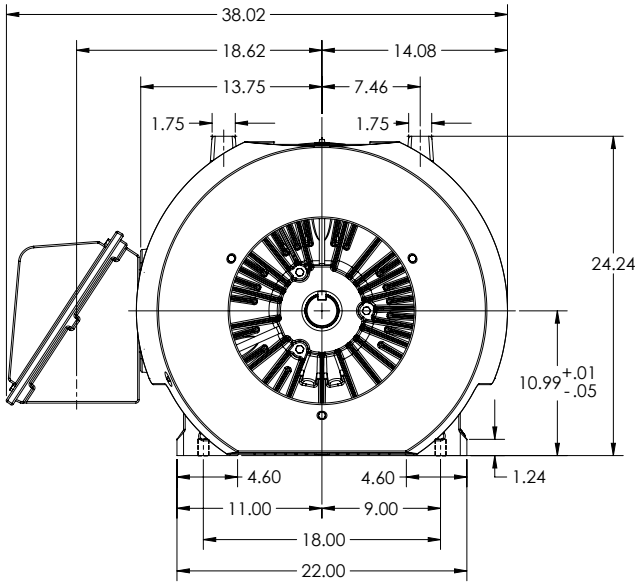
SQUIRREL-CAGE INDUCTION

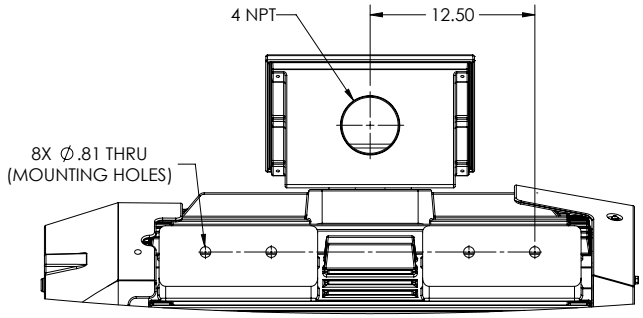
MOUNTING: FOOT, F-1

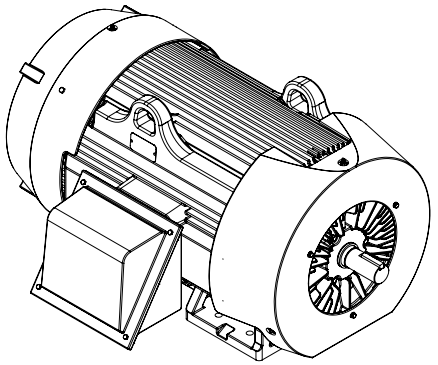
449TS/447TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









1. 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.

DIMENSIONS ARE IN INCHES; SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS.
WEIGHT (LBS): 3045, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 1 OF 2

617427-006

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: D	VERSION: 04	REVISED: 11:26:29 07/15/2022	TDR: 000001193529
MODEL NO. 617427-006			
BY: USBUFRA		C	

BALDOR

G449TS/447TS STD TEFC F1 FT -S/C CAST IRON C/BOX-

617427-006

DUTY MASTER ALTERNATING CURRENT MOTORS

617427-006

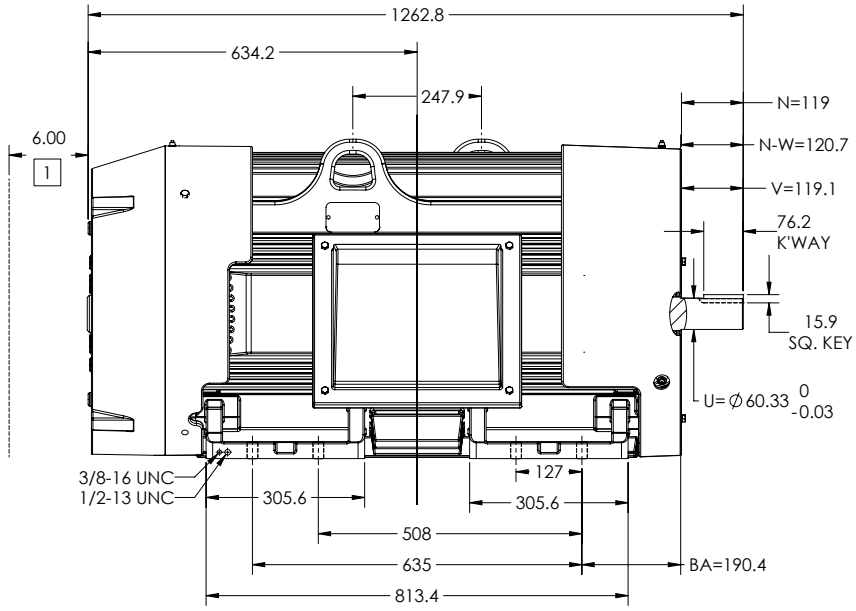
ENCLOSURE: TOTALLY ENCLOSED

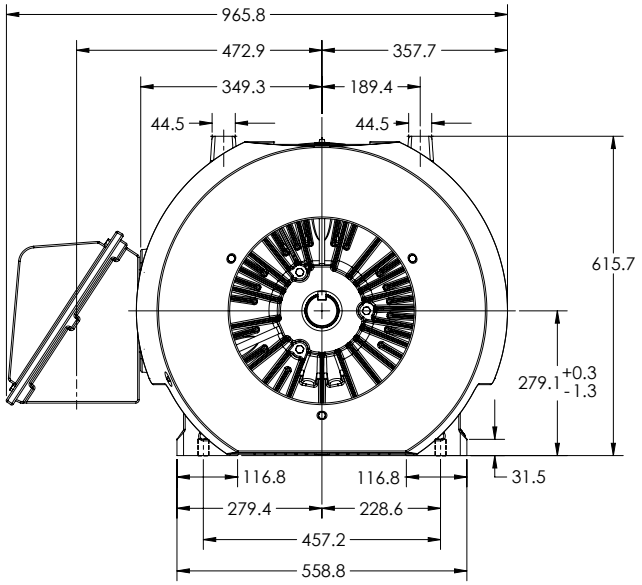
SQUIRREL-CAGE INDUCTION

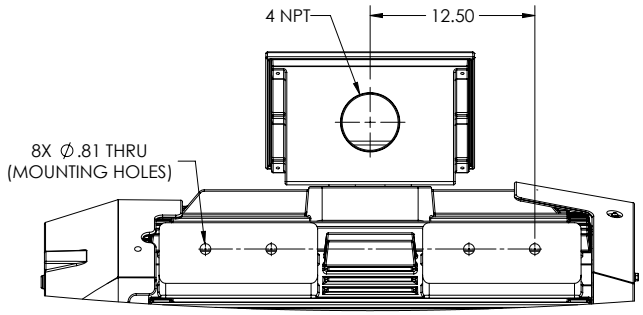
MOUNTING: FOOT, F-1

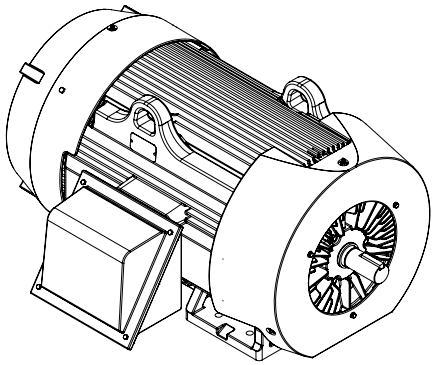
449TS/447TS FRAME MOUNTING HOLES

COOLING: FAN COOLED









1. 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 .08 MM T.I.R. TO 127 MM DIA.

DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES.
WEIGHT (KGS): 1380, MOTOR WEIGHTS MAY VARY BY 15% DEPENDING ON RATING.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

SHEET NUMBER 2 OF 2

617427-006

REV. DESC: UPDATE MODEL TO ADD EXTERNAL HARDWARE PER PROD MGM			
REV: D	VERSION: 04	REVISED: 11:26:29 07/15/2022	TDR: 000001193529
MODEL NO. 617427-006			
BY: USBUFRA		C	

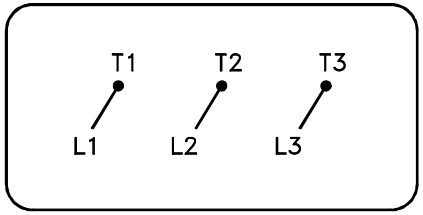
BALDOR

G449TS/447TS STD TEFC F1 FT -S/C CAST IRON C/BOX-

617427-006

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			BALDOR
REV. LTR: –	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11:54:06 04/30/2010	CONN DIAG – STANDARD 3 LEAD
MTL: –		BY: RAGRA	SH 1 of 1