ABB BALDOR RELIANCE

Customer information packet

AEM4400-4

100HP, 1785RPM, 3PH, 60HZ, 444U, A44078M, TEFC
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/28/2026 11:11:59 PM

Specifications

Enclosure	TEFC
Frame	445U
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	110.000 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	110.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	F
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 1 AWG
Motor Standards	Other
Motor Type	A44078M
Mounting Arrangement	F1

Part Detail

Revision	M
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1566
Layout	617427-067
Eff. date	12-10-2025
CD Diagram	416820-036
Poles	04
Leads	3#1
Proprietary	False
Created date	08-23-2012

Number of Poles	4
Overall Length	44.75 IN
Product Family	Other
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	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2436L												
SPEC NO.	P44G4007			**CAT.NO.**						**FRAME**	445U	
HP	100	**VOLTS**	460	**PHASE**	3	**DESIGN**	B	**TYPE**	P			
RPM	1785	**AMPS**	110	**HZ**	60	**AMB**	40	**SF**	1.15			
DRIVE END BEARING	90BC03JPP30A			**BLANK**		**DUTY**	CONT			**INSUL.CLASS**	F	
OPP D.E. BEARING	90BC03JPP30A					**ENCL**	TEFC	**CODE**	F			
NEMA-NOM-EFF	95.8											
GUARANTEED EFFICIENCY	95.0											
SER.NO.												
MOTOR WEIGHT												

NP2496L
MOBIL POLYREX EM

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	445U	100	P	3/60	1785	460

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

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
497581	418143-35-FE	---	---	.0459

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	25.3	1800	5.14	0
1/4	25.0	35.3	1797	70.5	94.1
2/4	50.0	55.7	1793	87.7	95.9
3/4	74.9	80.8	1790	90.4	96.1
4/4	100	110	1786	88.9	95.8
5/4	125	143	1782	85.9	95.3

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	139	410	681
PULL UP	400	124	365	660
BREAKDOWN	1730	246	723	398
FULL LOAD	1786	100	294	110

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-CALCULATED DATA-NEMA NOM. EFF. 95.8 PCT.

BALDOR

DR. BY J.J.HARRISON
CK. BY G.R.WEBB
APP. BY W.L.SMITH
DATE 07/24/02

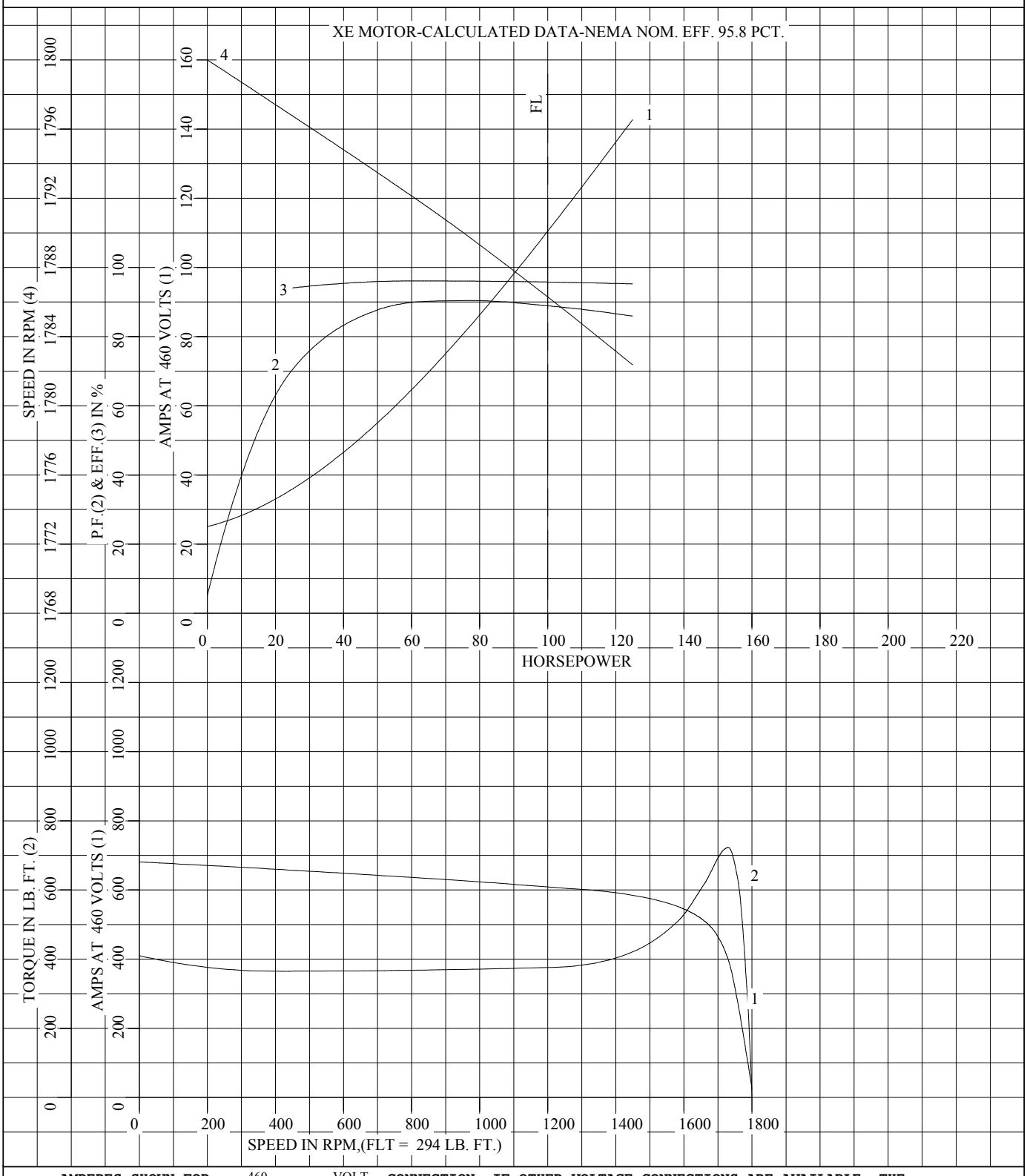
A-C MOTOR PERFORMANCE DATA

A44WG1566-R001
ISSUE DATE 12/18/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET AEM4400-4 - 100HP, 1785RPM, 3PH, 60HZ, 444U, A44078M, TEFC

FRAME 445U	RPM 1785	S.F. 1.15	ROTOR 418143-35-FE
HP 100	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 110	CODE LETTER F	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0459
	AMB ℃/INSUL 40/F	E/S 497581	OHMS (BETWEEN LINES)



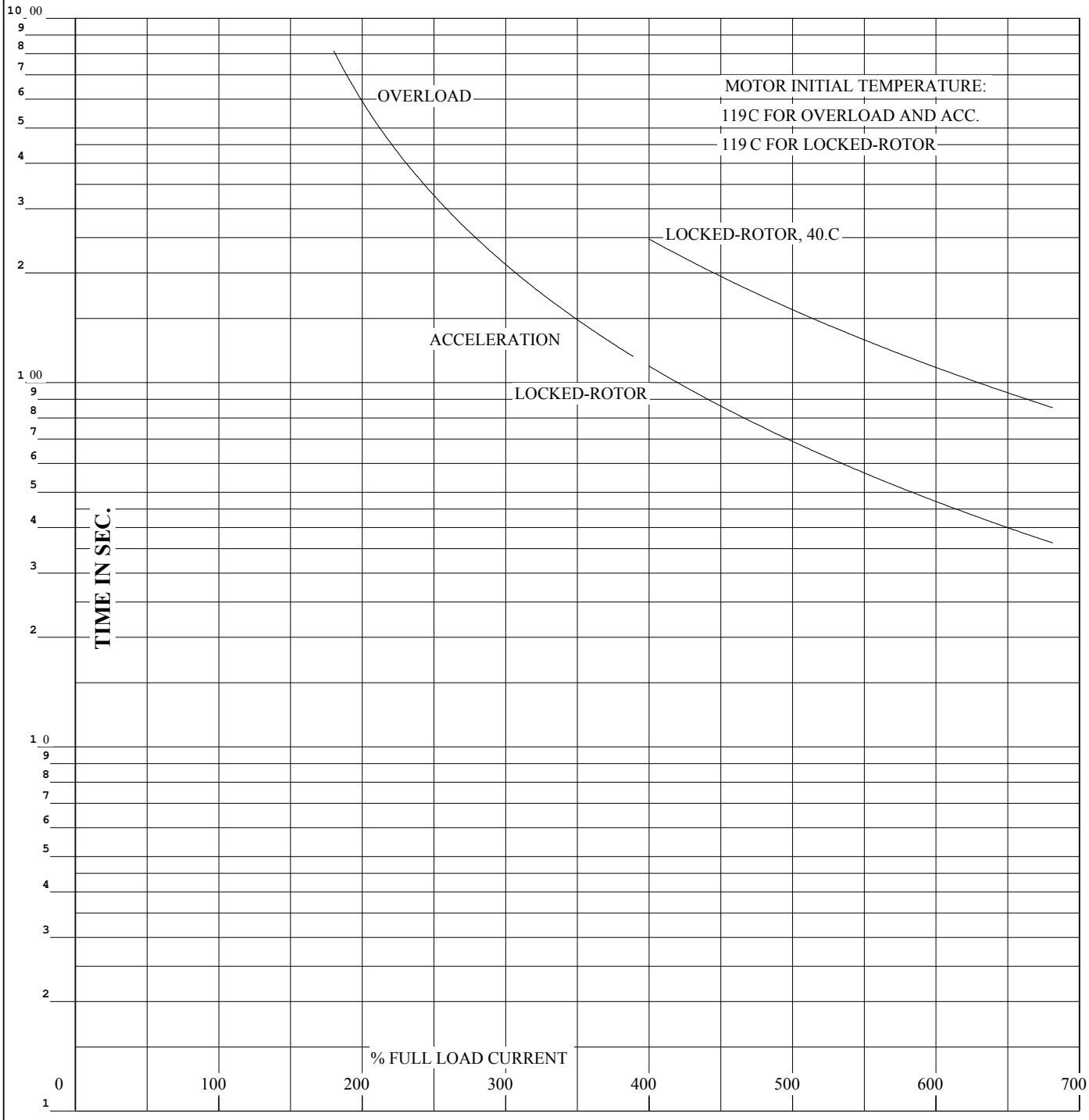
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY	J.J.HARRISON
CK. BY	G.R.WEBB
APP. BY	W.L.SMITH
DATE	07/24/02

A-C MOTOR PERFORMANCE CURVES A44WG1566-R001 ISSUE DATE 12/18/10

REL. S.O.	RPM 1785	S.F. 1.15	ROTOR 418143-35-FE
FRAME 445U	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 100	AMPS 110	CODE LETTER F	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃.0459
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 497581	OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS: XE MOTOR-CALCULATED DATA-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

DR. BY	J.J.HARRISON
CK. BY	G.R.WEBB
APP. BY	W.L.SMITH
DATE	07/24/02

A-C MOTOR PERFORMANCE CURVES **A44WG1566-R001**

ISSUE DATE 12/18/10

Printed on 12/18/10 7:30 @ psecs-motorer

617427-067

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

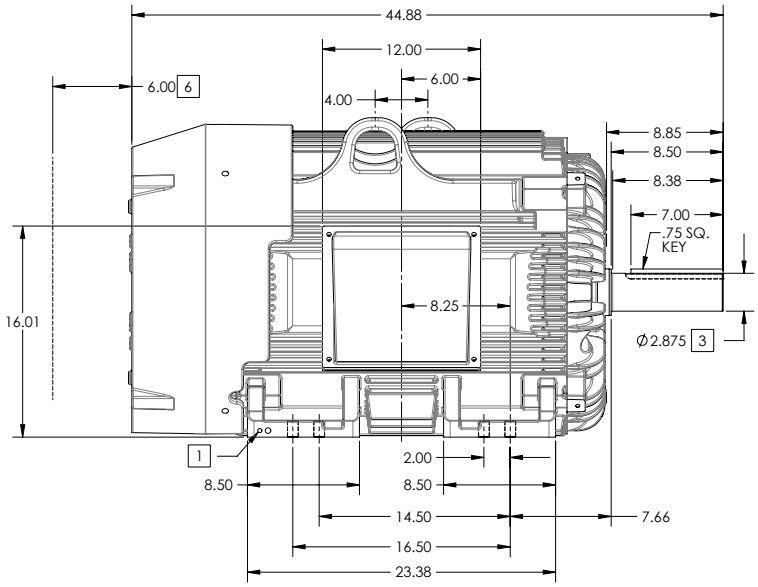
ENCLOSURE: TOTALLY ENCLOSED

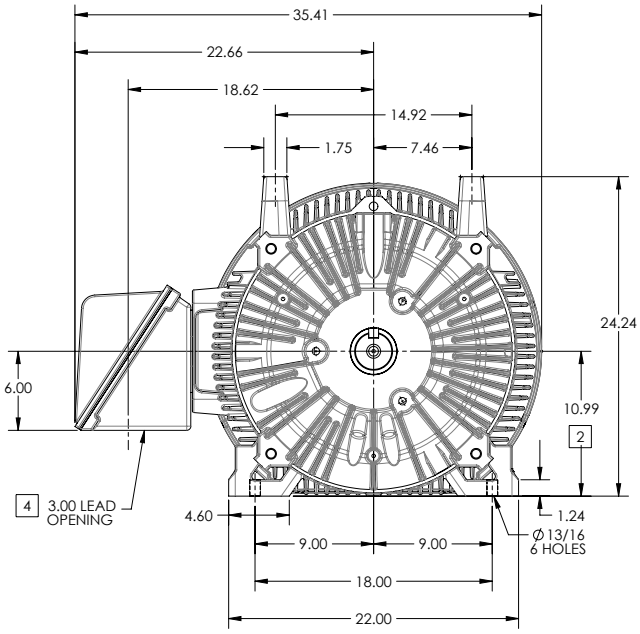
FRAME G445U ABOVE NEMA RATINGS

COOLING: FAN COOLED

MOUNTING: FOOT

INCLUDES 444U FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.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 15% 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.

5 WEIGHT (LBS): 2130

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.

SHEET NUMBER 1 OF 2

617427-067

REV. DESC: CORRECT C/BOX			
REV: B	VERSION: 02	REVISED: 12:48:26 07/29/2014	TDR: 000000864738
MODEL NO. 617427-067			REF:
BY: RAGAJH	Material:		C

BALDOR

G445U/444U STD – FOOTED – SIDE/CENTER C/B

617427-067

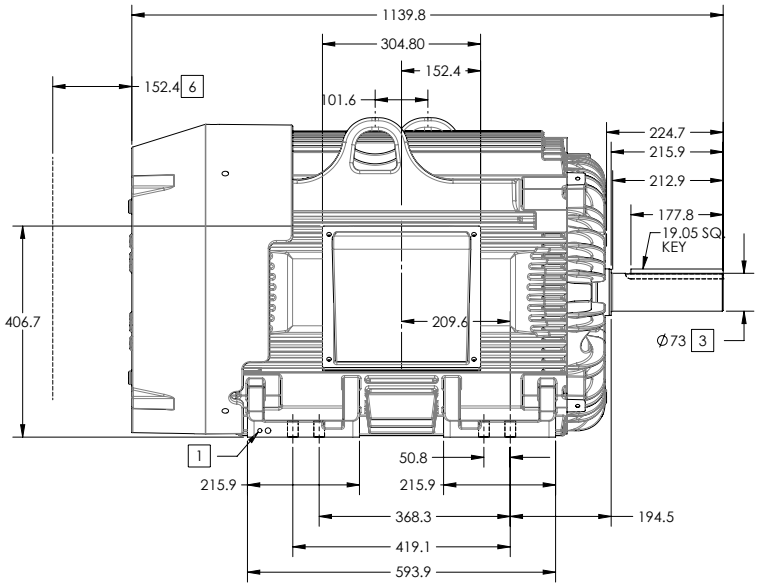
617427-067

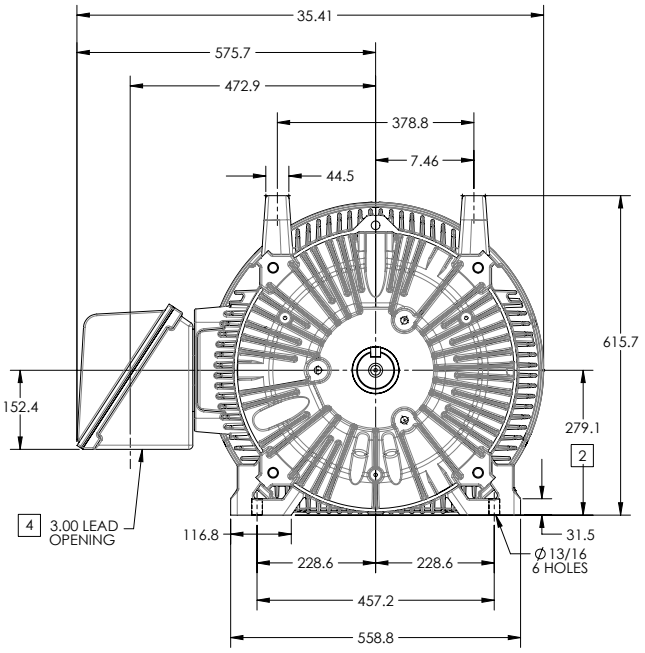
DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED | FRAME G445U ABOVE NEMA RATINGS | COOLING: FAN COOLED

MOUNTING: FOOT | INCLUDES 444U FRAME MOUNTING HOLES





1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.00,-.06
3. VARIES +.000,-.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 15% 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 .08 MM T.I.R. TO 127 MM DIA.

5 WEIGHT (KGS): 970

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.

SHEET NUMBER 2 OF 2

617427-067

REV. DESC: CORRECT C/BOX			
REV: B	VERSION: 02	REVISED: 12:48:26 07/29/2014	TDR: 000000864738
MODEL NO. 617427-067			REF:
BY: RAGAJH	Material:		C

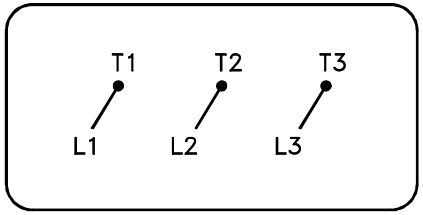
BALDOR

G445U/444U STD – FOOTED – SIDE/CENTER C/B

617427-067

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