ABB BALDOR RELIANCE

Customer information packet

IDVSM4407T-4

200HP, 1790-2685RPM, 3PH, 60-90HZ, 447T, A441
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	447T
Frame Material	Iron
Frequency	60.00 Hz
	90.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	200.000 HP @ 90 HZ
	200.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	460.0 V @ 90 HZ
Agency Approvals	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	1000:1
Current @ Voltage	218.000 A @ 460.0 V
	226.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	218.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	L

Part Detail

Revision	Q
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A44WG1128
Layout	617435-137
Eff. date	03-26-2026
CD Diagram	416820-036
Poles	04
Leads	3#1/0 (02 per group)
Proprietary	False
Created date	08-23-2012

Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	6 @ 1/0 AWG
Motor Standards	NEMA
Motor Type	A44106M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	48.24 IN
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	3.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1790 rpm
	2685 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

000613007HV

CAT NO	IDVSM4407T-4		**SPEC NO.**	P44G4010								
SER.NO.			**FRAME**	447T								
	HP	**RPM**	**VOLTS**	**AMPS**	**HZ**	**TYPE**	P					
BASE	200	1790	460	226	60	**SF**	1.00					
MAX	200	2685	460	218	90	**INSUL.CLASS**	F					
DRIVE END BEARING	90BC03J30X		**CONSTANT TORQUE**		**DUTY**	CONT	**AMB**	40				
OPP D.E. BEARING	6318C3VL0241		1000:1	**ENCL**	TEFC	**PHASE**	3					
DESIGN NO.	A44WG1128-R001		**FLUX AMPS**	75.6		**VPWM INVERTER READY**						
MAX SPEED/RPM	3600		**OVERTEMP PROT**	2	**WK2**	70.1	**POLES**	4	**WEIGHT**			

Parts List

Part number	Description	Quantity
SA254536	SA P44G4010	1.000 ea
RA241344	RA P44G4010	1.000 ea
000692000FF	N/P	1.000 ea
000692000VD	LABEL WARNING	1.000 ea
000613007HV	N/P BALDOR VSMASTER, CURUS	1.000 ea
421948051	LABEL, MYLAR	1.000 ea
412118006A	DRAIN	2.000 ea
004824015A	GREASE POLYREX EM	1.160 lb
032018008CK	HHCS 3/8-16X1L PLATED	4.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
032620016LA	SOCKET SET SCREW-449	3.000 ea
032018030DK	HHCS 1/2-13X3-3/4 PLTD.	3.000 ea
034017014AB	LCKW 3/8 STD. PLATED	4.000 ea
034180014DA	KEY 1/4X1/4X1-3/4 L	1.000 ea
034530072AB	P/NIP 1/8X9"L Threaded both ends	1.000 ea
035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
034690005AB	PPLG 3/4 PLATED	2.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
702618004T	FAN KB 182/70 (112) 440	1.000 ea
083199082A	G28 Fan cover machining	1.000 ea
089490099A	G28 BRKT 089490098WCA KB	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
415096002A	CPLG 1/8 HEX TYPE	1.000 ea
410700004A	WSHR	1.000 ea
415072001B	CLAMP	1.000 ea
032018004BK	HHCS 5/16-18X1/2 PLATED	3.000 ea
032018020FK	HHCS 3/4-10X2-1/2 PLTD.	4.000 ea
034017013AB	LCKW 5/16 STD. PLATED	3.000 ea
034530044AB	P/NIP 1/8X5-1/2L GALV.	1.000 ea

035000001A	ALFTG 1/8" 1610-BL	1.000 ea
034690002AB	PPLG 1/4" PLTD.	1.000 ea
418151014G	RETAIN RING	1.000 ea
702623013A	THERMAL BARRIER -- G28 -- BRACKET MTD	1.000 ea
032018008DK	HHCS 1/2-13X1 PLATED	4.000 ea
415915007G	GASK, LAC	1.000 ft
033512006LB	HHTTS 1/4-20X3/4 PLTD.	8.000 ea
406056008A	GASKET, TERBD 440	1.000 ea
406099000A	PLUG - FAN COVER 320-440	1.000 ea
415000115H	T/LUG #2AWG-4/0AWG	1.000 ea
418153001A	GASK 440	1.000 ea
702658001B	+C/BOX, PAINTED 440	1.000 ea
702658002A	+C/BOX CVR, PAINTED 440	1.000 ea
MG1025N19	WILKO 778.50 BLUE GREEN - 55 GAL DRUMS	0.500 ga
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 ea
034180054KA	7/8 SQ X 6.75 KEY	1.000 ea
N424000803GSA	LEAD SET 1/0-1 AWG 6-GS 447/9 FR 72 IN	2.000 ea
604797056	WOOD BASE 447 60 X 41-1/2 BLT 20 X 18	1.000 ea
032018005DL	1/2-13 X 5/8 SILICON BRONZE HHCS	1.000 ea

REL S.O.	–	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE			
FRAME	447T	AMPS	226	MAX SAFE RPM	3600	(AT BASE RATING, 25 °C)			
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1	.00721	X1	.0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2	.00459	X2	.0885
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	WK^2 ($Lb-Ft^2$)	70.1			XM	2.97

RATED FULL LOAD DATA

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
BASE SPEED	1792	200	586	460	60	226
MAX SPEED	2687	200	391	460	90	218
MIN SPEED	0	0	586	6.20	.281	226

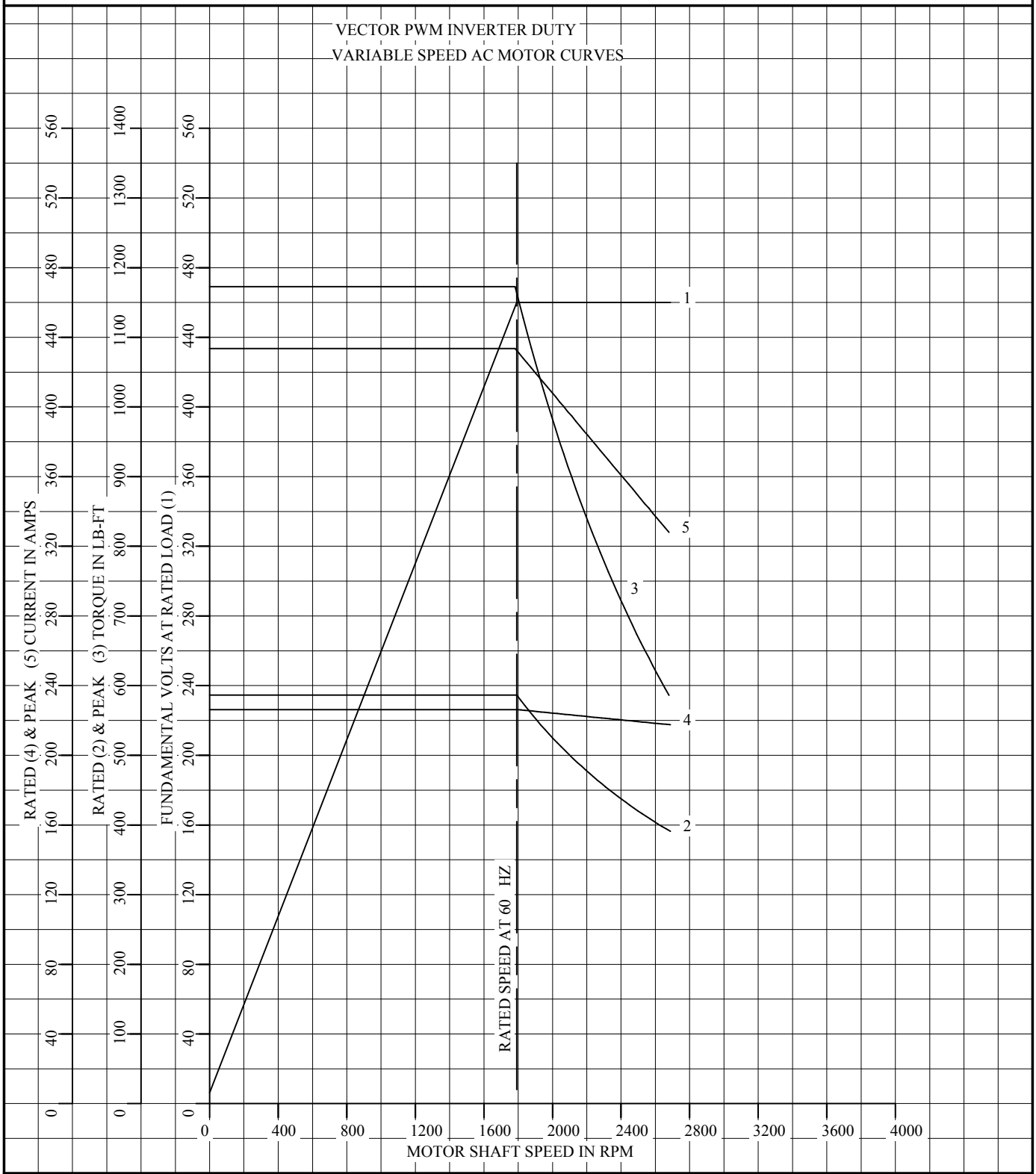
LOAD PERFORMANCE AT BASE SPEED

	RPM	HP	TORQUE LB-FT	FUND VOLTS	FREQ-HZ	AMPS
NO LOAD	1800	0	0	460	60	75.4
1/4	1798	50.0	146	460	60	104
1/2	1796	100	293	460	60	138
3/4	1794	150	439	460	60	180
FULL LOAD	1792	200	586	460	60	226
O/L	1782	398	1173	460	60	434

BLOWER DATA	VOLTS	PH/HZ	FL AMPS	LR AMPS	FRAME	CFM

REMARKS: CALCULATED DATA
VECTOR PWM INVERTER DUTY

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	447T	AMPS	226	MAX SAFE RPM	3600		
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1 .00721	X1 .0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2 .00459	X2 .0885
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	70.1		XM 2.97



REMARKS: CALCULATED DATA
DATA VALID FOR NAMEPLATE SPEED RANGE ONLY

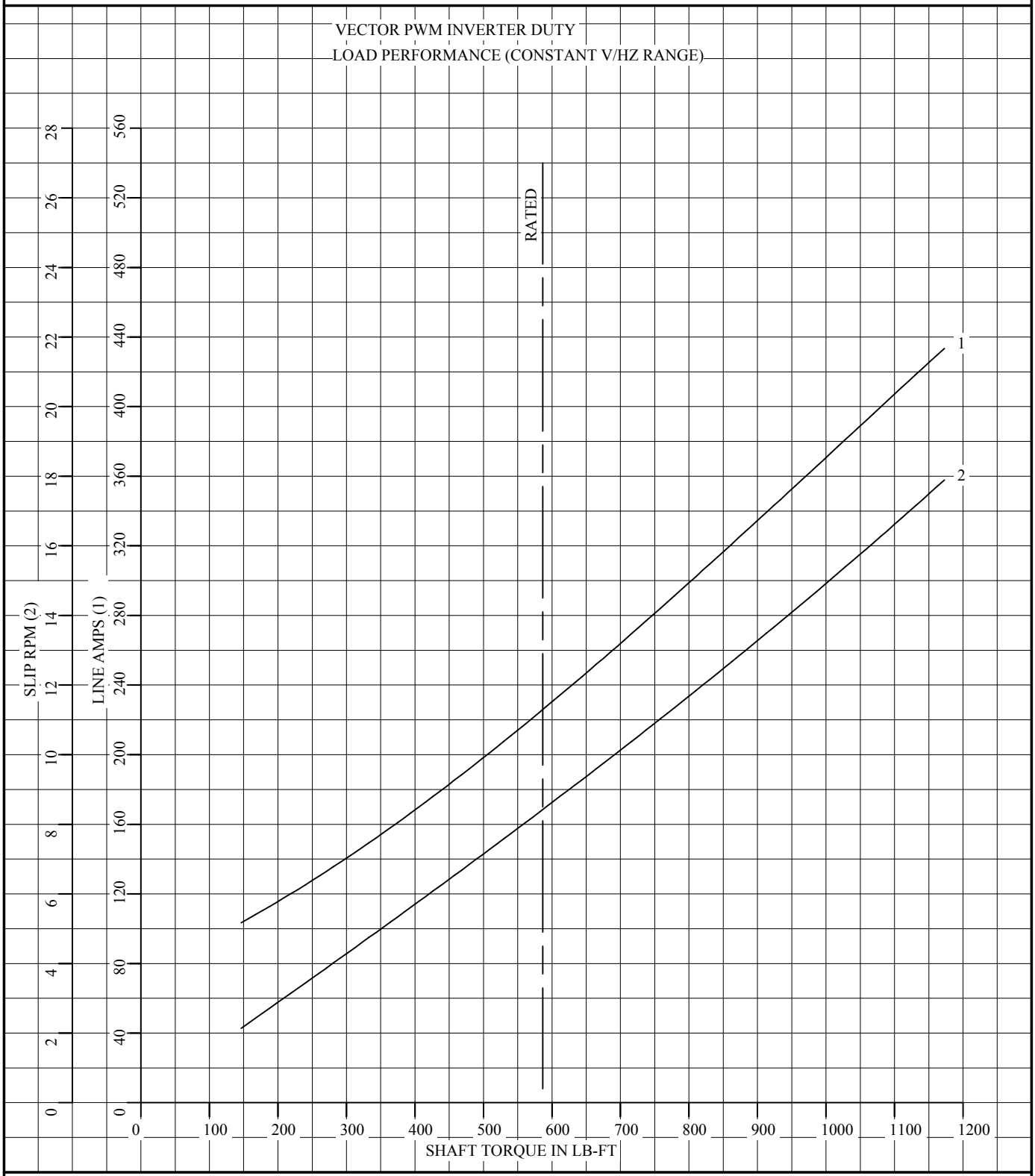
BALDOR
A MEMBER OF THE ABB GROUP

DR. BY	B.R.PENDLEY
CK. BY	W.L.SMITH
APP. BY	W.L.SMITH
DATE	09/07/04

A–C MOTOR PERFORMANCE CURVES

A44WG1128-R001
SH 1 OF 2
ISSUE DATE 04/05/11

REL S.O.	-	VOLTS	460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (AT BASE RATING, 25 ℃)	
FRAME	447T	AMPS	226	MAX SAFE RPM	3600		
HP	200	DUTY	CONT	IM (AMPS)	75.6	R1 .00721	X1 .0917
BASE SPEED	1790	S.F.	1.0	P.F.@NL/FL	.069/.867	R2 .00459	X2 .0885
PHASE/HERTZ	3/60	AMB ℃/INSUL	40/F	WK^2 (Lb-Ft^2)	70.1		XM 2.97



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DATE	09/07/04

A-C MOTOR PERFORMANCE CURVES

A44WG1128-R001
SH 2 OF 2
ISSUE DATE 04/05/11

DUTY MASTER ALTERNATING CURRENT MOTORS

617435-137

ENCLOSURE: TOTALLY ENCLOSED

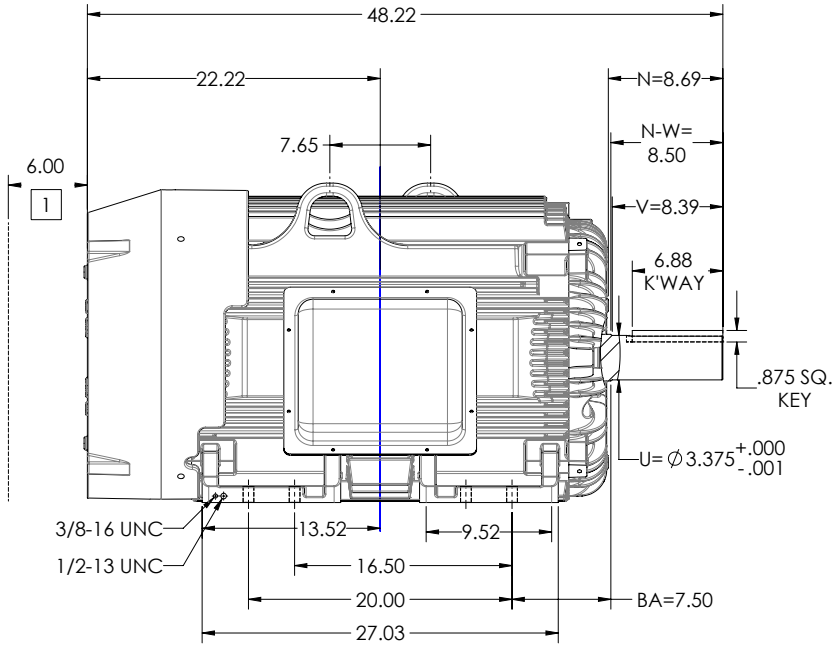
SQUIRREL-CAGE INDUCTION

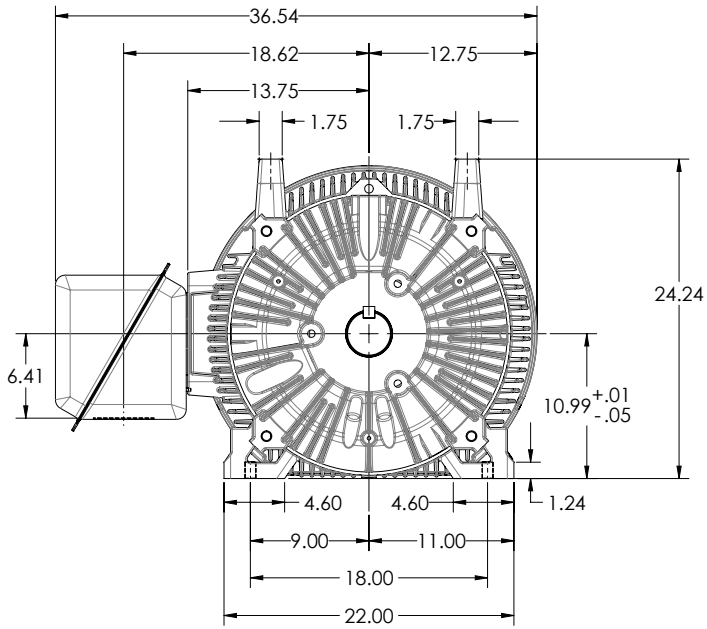
MOUNTING: FOOT, F1

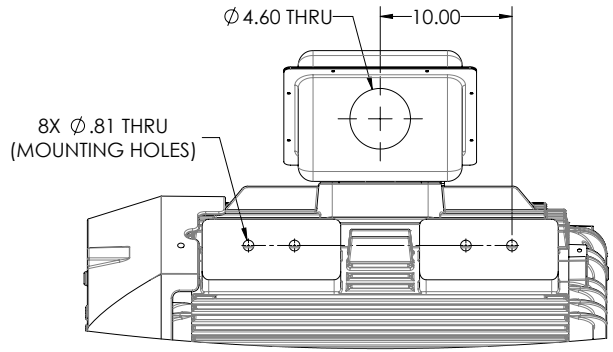
G447T/G445T FRAME MOUNTING HOLES

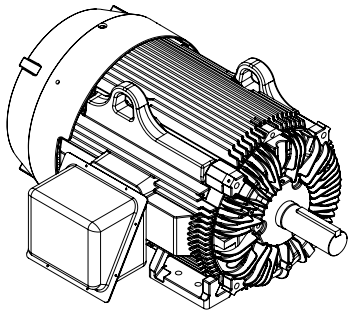
COOLING: FAN COOLED

STEEL CONDUIT BOX









1 OBSTRUCTION MUST NO ENCROACH ON AIR INLET

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STANDARD SHAFT EXTENSION IS .003

DIMENSIONS ARE IN INCHES.
WEIGHT (LBS): 2515. 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 1

617435-137

REV. DESC: NEW DRAWING			
REV: -	VERSION: 00	REVISED: 11:29:42 06/27/2016	TDR: 000000984408
MODEL NO. 617435-137			REF: -
BY: USJEDIL	Material: -		C

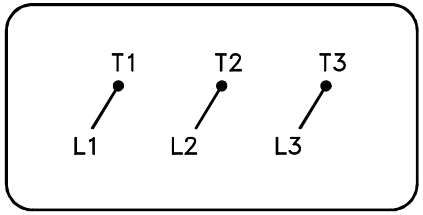
BALDOR

G447T/445T TEFC F1 FOOTED SIDE/CENTER STEEL CONDUIT BOX

617435-137

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