ABB BALDOR RELIANCE

Customer information packet

OF4312T

50HP, 1130RPM, 3PH, 60HZ, 404T, A40062M, 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.
11/8/2026 11:59:26 AM

Specifications

Enclosure	TEFC
Frame	404T
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	50.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	796.0 V @ 60 HZ
Agency Approvals	CSA EEV
	CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	58.800 A @ 460.0 V
	33.900 A @ 796.0 V
Design Code	D
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	33.9 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 6 AWG

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0515
Layout	617429-521
Eff. date	02-05-2019
CD Diagram	416820-004
Poles	06
Leads	6#6
Proprietary	False
Created date	07-19-2013

Motor Standards	NEMA
Motor Type	A40062M
Mounting Arrangement	F2
Number of Poles	6
Overall Length	38.20 IN
Product Family	Oil Well Pump Jack
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	Shaft Slinger
Speed	1130 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2294L											
CAT.NO.				**SPEC NO.**	P40G3939			**FRAME**	404T		
HP	50	**PHASE**	3	**DESIGN**	D	**TYPE**	P				
RPM	1130	**HZ**	60	**AMB**	40	**SF**	1.15				
VOLTS	460/796			**DUTY**	CONT			**INSUL.CLASS**	F		
AMPS	58.8/33.9			**ENCL**	TEFC	**CODE**	G				
DRIVE END BEARING	80BC03J30X			**NEMA-NOM-EFFICIENCY**	89.5						
OPP D.E. BEARING	80BC03J30X										
SER.NO.			OVER TEMP PROT 2								
				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	404T	50	P	3/60	1130	460/796

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
58.8/33.9	CONT	40/F	1.15	D	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
595999	418142075AA	---	---	.138/.413

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	9.1	1200	7.13	0
1/4	12.5	12.1	1184	62.6	89.6
2/4	25.0	18.0	1167	81.8	91.8
3/4	37.5	25.4	1149	87.6	91.2
4/4	50.0	33.9	1130	89.0	89.7
5/4	62.5	42.8	1108	90.0	87.8

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	287	668	220
PULL UP	0	287	668	220
BREAKDOWN	758	317	736	152
FULL LOAD	1130	100	232	33.9

AMPERES SHOWN FOR 796. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE

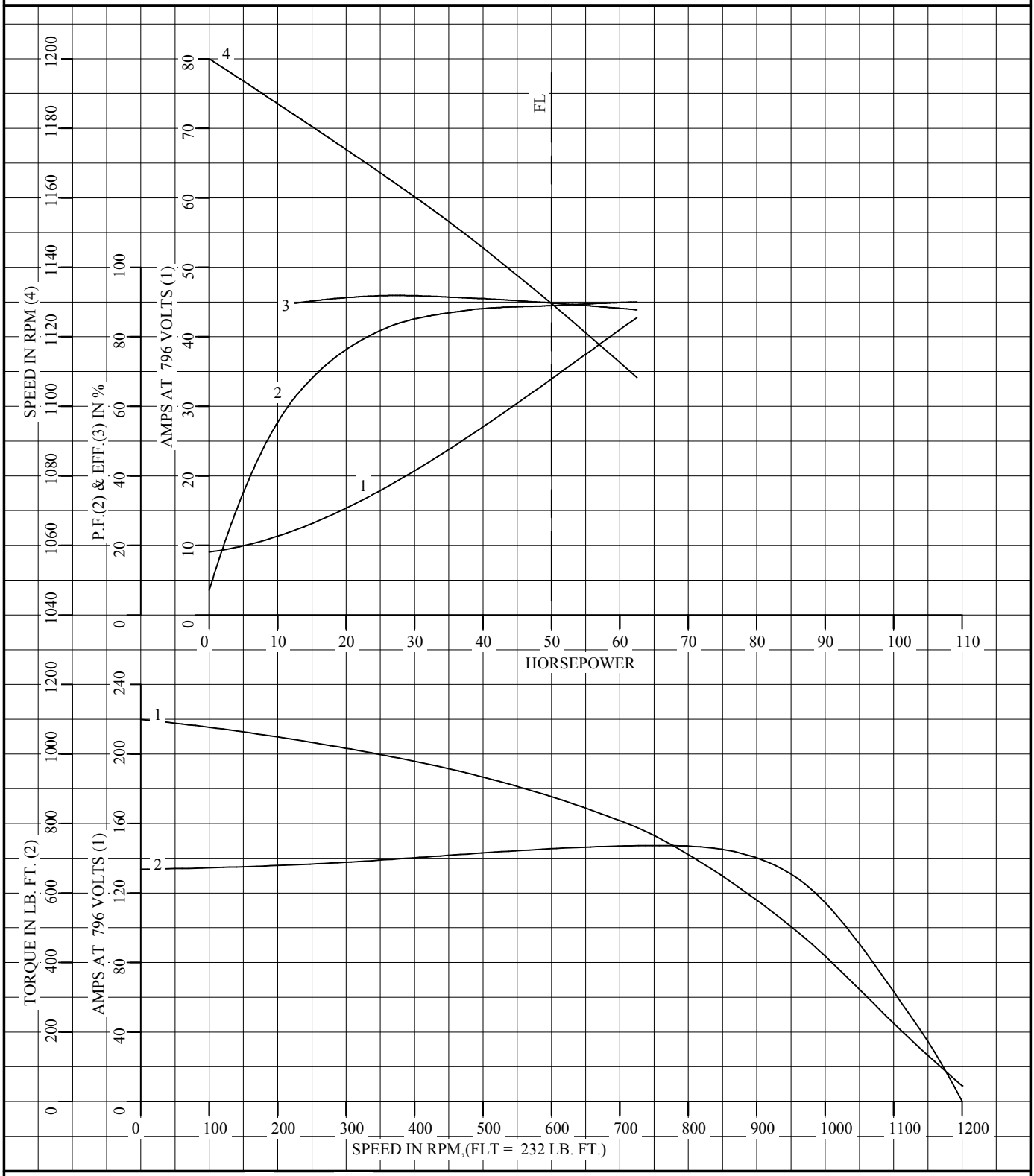
REMARKS: TYPICAL DATA

BALDOR A MEMBER OF THE ABB GROUP

DR. BY B.R.PENDEY
CK. BY C.E.JAMISON
APP. BY W. L. SMITH
DATE 02/02/2012

A-C MOTOR PERFORMANCE DATA A40WG0515-R001
ISSUE DATE 04/13/20

REL S.O.	RPM 1130	S.F. 1.15	ROTOR 418142075AA
FRAME 404T	VOLTS 460/796	NEMA DESIGN D	TEST S.O. TYPICAL DATA
HP 50	AMPS 58.8/33.9	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 °C .138/.413
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 595999	OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 796 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

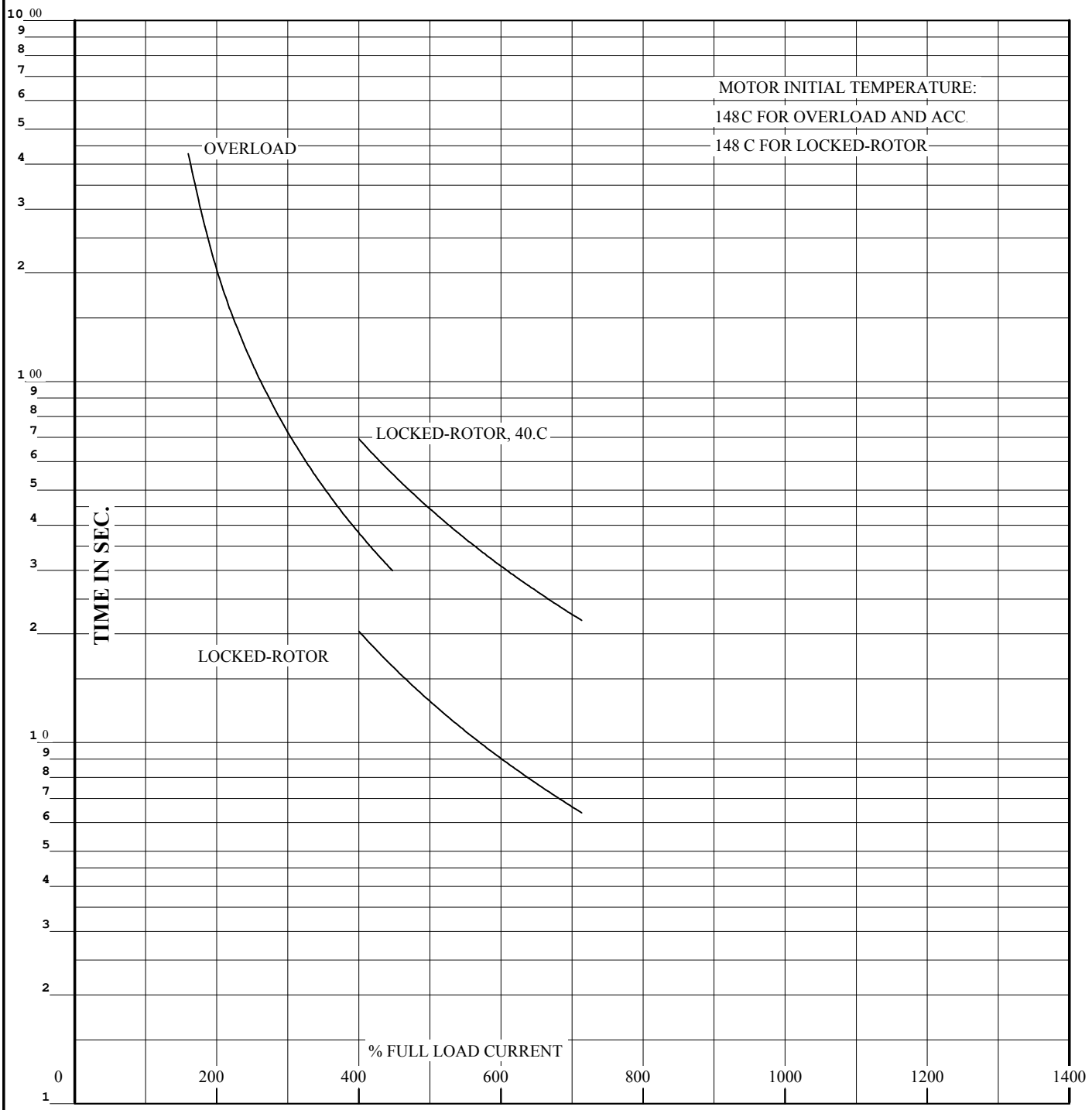
DR. BY	B.R.PENDEY
CK. BY	C.E.JAMISON
APP. BY	W. L. SMITH
DATE	02/02/2012

A-C MOTOR PERFORMANCE CURVES

A40WG0515-R001

ISSUE DATE 04/13/20

REL. S.O.		RPM	1130	S.F.	1.15	ROTOR	418142075AA
FRAME	404T	VOLTS	460/796	NEMA DESIGN	D	TEST S.O.	TYPICAL DATA
HP	50	AMPS	58.8/33.9	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES.@ 25 °C	.138/.413
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	595999		OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

AMPERES SHOWN FOR 796 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	B.R.PENDEY
CK. BY	C.E.JAMISON
APP. BY	W. L. SMITH
DATE	02/02/2012

A–C MOTOR PERFORMANCE CURVES

A40WG0515-R001

ISSUE DATE 04/13/20

Printed on 4/13/20 5:27 @ bengap01.bal

617429-521

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

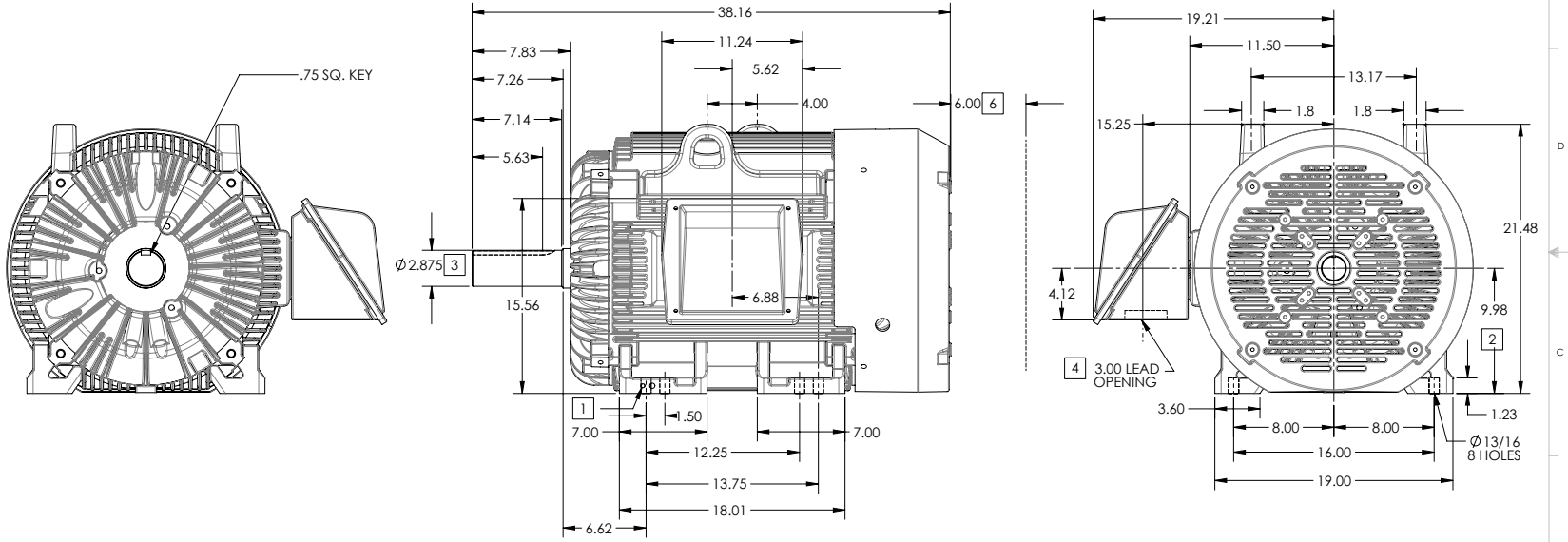
MOUNTING: FOOT

FRAME G405T ABOVE NEMA RATINGS

INCLUDES 404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

XT/ECP SEVERE DUTY ENCLOSURE



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 NOT ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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): 1370

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

617429-521

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: A	VERSION: 01	REVISED: 02:55:42 04/14/2014	TDR: 000000848770
MODEL NO. 617429-521			REF:
BY: MGHJMZ2	Material:		C

BALDOR

G405T/404T STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE F2

617429-521

617429-521

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

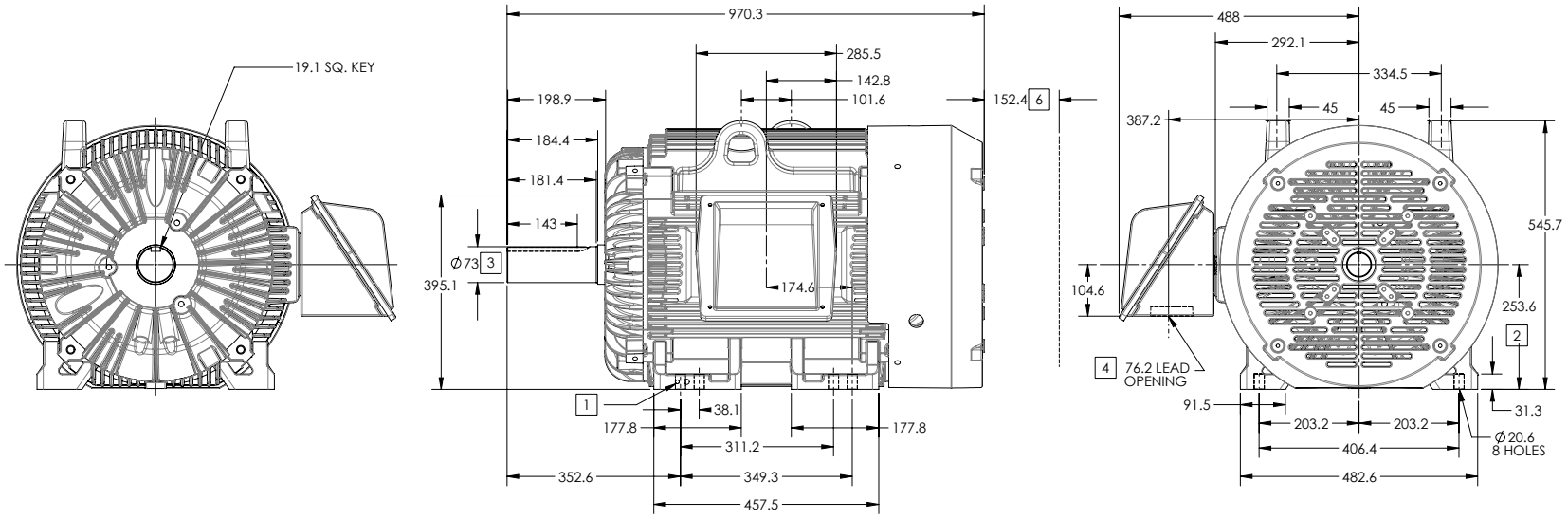
MOUNTING: FOOT

FRAME G405T ABOVE NEMA RATINGS

INCLUDES 404T FRAME MOUNTING HOLES

COOLING: FAN COOLED

XT/ECP SEVERE DUTY ENCLOSURE



1. GROUND HOLES QTY 1 1/2-13 TAP; QTY 1 3/8-16 TAP
2. VARIES +.0,-1.5
3. VARIES +.00,-.03
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 NOT ENCROACH ON AIR INLET

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-1.
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): 630

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

617429-521

REV. DESC: CHANGE BA FROM 6.76 TO 6.62			
REV: A	VERSION: 01	REVISED: 02:55:42 04/14/2014	TDR: 000000848770
MODEL NO. 617429-521			REF:
BY: MGHJMZ2	Material:		C

BALDOR

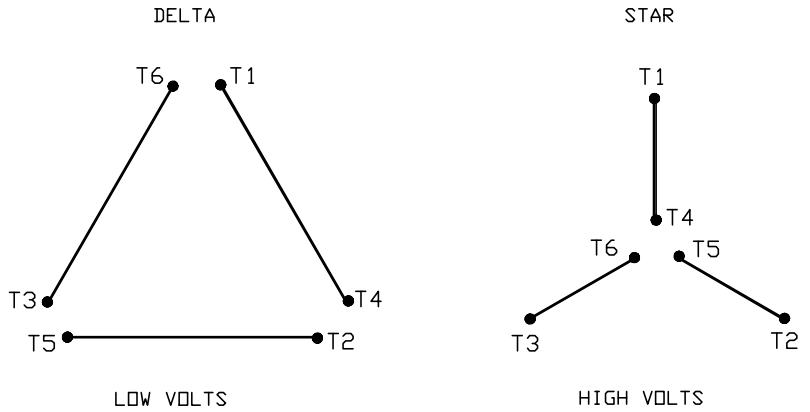
G405T/404T STD – FOOTED – XT/ECP SEVERE DUTY ENCLOSURE F2

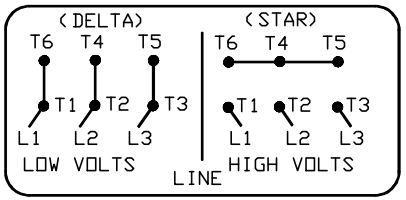
617429-521

416820-004

A-C MOTOR
CONNECTION DIAGRAM

STANDARD 6 LEAD (DELTA/STAR CONNECTED)
DUAL VOLTAGE (LOW VOLTS/HIGH VOLTS)





(N. P. 1767-CC)

416820-004

REV. DESC: FONT CHANGE FOR PDF SEARCHABLE		
REV. LTR: C	VERSION: 03	TDR: 000001009406
FILE: \RSN\00017\950	REVISED: 10:55:03 12/21/2016	BY: MGHMTT
MTL: -		

BALDOR

A-C MOTOR CONNECTION DIAGRAM

SH 1 of 1