

ABB BALDOR RELIANCE III

Customer information packet

ECP84404T-5

75HP, 1185RPM, 3PH, 60HZ, 405T, A40072M, TEFC

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	405T
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	75.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	C UR US CCSA US CCSAUSEEV CURUS
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	15-60
Current @ Voltage	67.700 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	67.7 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G

Part Detail

Revision	-
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG1268
Layout	617429-818
Eff. date	06-19-2025
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	05-20-2025

Lifting Lugs	Standard Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	None
Motor Type	A40072M
Mounting Arrangement	F1
No Load Current	18.2 a
Number of Poles	6
Overall Length	38.19 IN
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1185 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP4566													
CAT NO	ECP84404T-5			SPEC NO.		A40-0001-1268							
HP	75	AMPS		67.7		VOLTS		575		DESIGN		B	
FRAME SIZE	405T	RPM		1185		HZ		60	AMB		40	SF 1.15	
D.E. BRG.DATA	6316			O.D.E. BRG.DATA			6316		PH		3	DUTY CONT INSUL.CLASS	
D.E. BRG.	80BC03J30X			TYPE ENCL		TEFC		CODE		G			
O.D.E. BRG.	80BC03J30X			POWER FACTOR				87		NEMA-NOM-EFFICIENCY 94.5			
3/4 LOAD EFF.	94.9	IP 56		MAX CORR KVAR				12		GUARANTEED EFFICIENCY 93.6			
TEMP CODE	T3	TEMP =		200									
CHP HZ	60-90	CT HZ		15-60		VT HZ		0-60					
INVERTER-TEMP-CODE	T3												
SER.NO.				MOTOR WEIGHT									

000613007EX				
CAT NO	ECP84404T-5	SPEC NO.	A40-0001-1268	
NO. ROTOR BARS	71	GREASE TYPE	POLYREX EM	
NO. SLOTS	90	NL AMPS AT RATED VOLTAGE		18.2
5 YEAR WARRANTY		WINDING RES @25 C	.139	OHMS
MFG. DATE		SER.NO		
	SFA 77.6			

ABB BALDOR RELIANCE III S/O		CUSTOMER INFORMATION PACKET		ECP84404T-5 - 75HP, 1185RPM, 3PH, 60HZ, 405T, A40072M, TEFC		
	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	75	P	3/60	1185	575
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE
67.7	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
-	418142073DE	---	---	.139		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	18.2	1200	5.77	0	
1/4	18.8	24.5	1196	62.4	92.2	
2/4	37.5	36.6	1193	81.2	94.7	
3/4	56.2	51.4	1189	86.3	94.9	
4/4	75.0	67.7	1185	87.8	94.5	
5/4	93.8	84.5	1180	88.5	93.8	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0	180	600	465	
PULL UP		305	171	570	440	
BREAKDOWN		1117	259	860	245	
FULL LOAD		1185	100	332	67.7	
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.						
TYPICAL DATA NEMA NOM. EFF. 94.5 %						
		DRAWN BY: <u>W. L. SMITH</u> CHECKED BY: <u>C.E.JAMISON</u> APPROVED BY: <u>W. L. SMITH</u> DATE: <u>05/20/25</u>		AC MOTOR PERFORMANCE DATA		A40WG1268-R001 DATE ISSUED 05/20/25

FRAME 405T

RPM 1185

VOLTS 575

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 75

AMPS 67.7

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

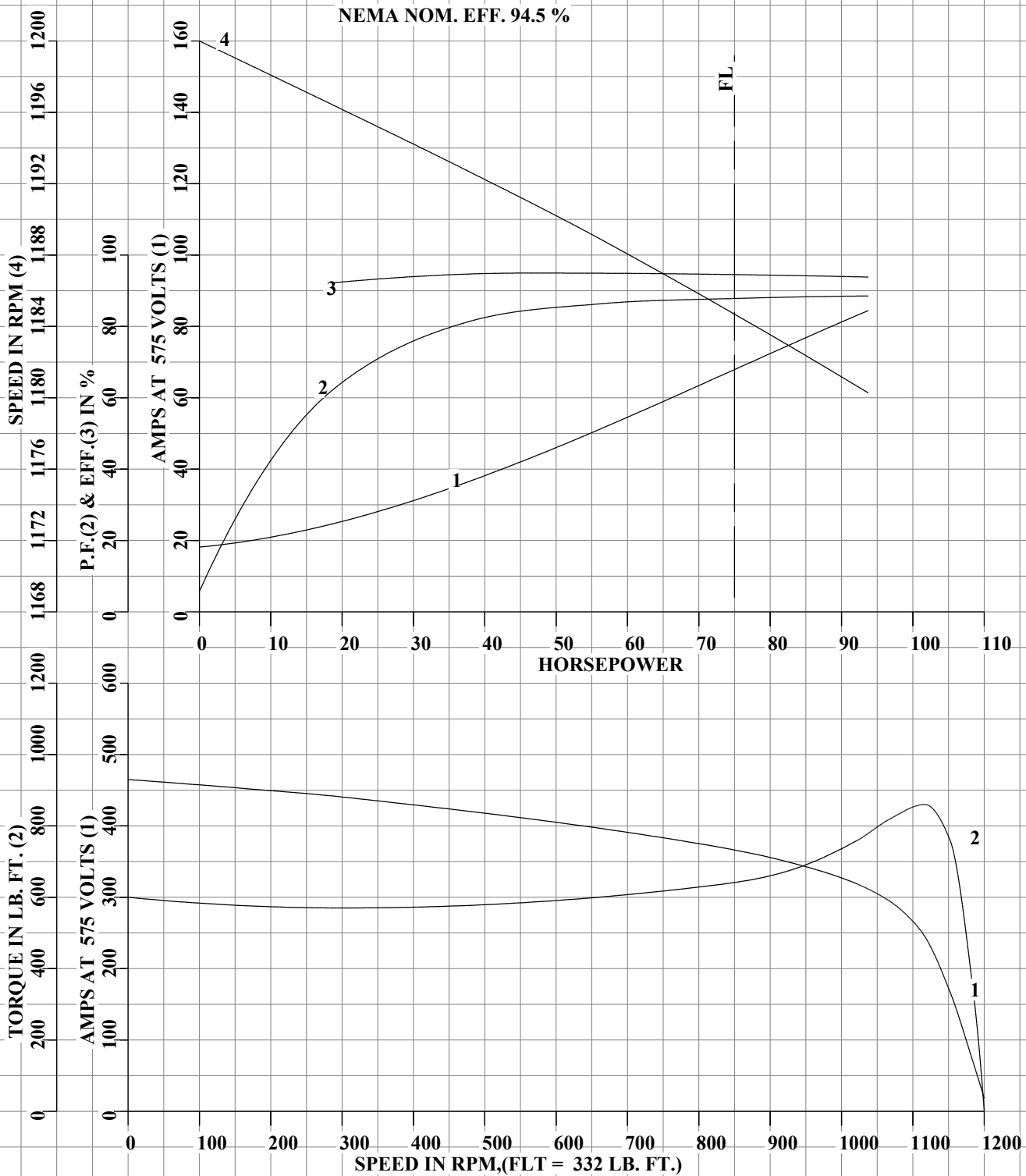
STATOR RES. @ 25°C .139

PHASE / HERTZ 3/60

AMB °C / INSUL 40/F

E/S -

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 575 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.



DRAWN BY: W. L. SMITH
CHECKED BY: C.E. JAMISON
APPROVED BY: W. L. SMITH
DATE: 05/20/25

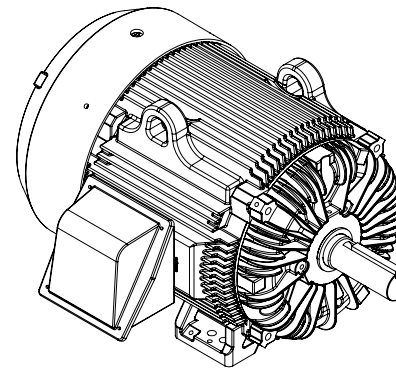
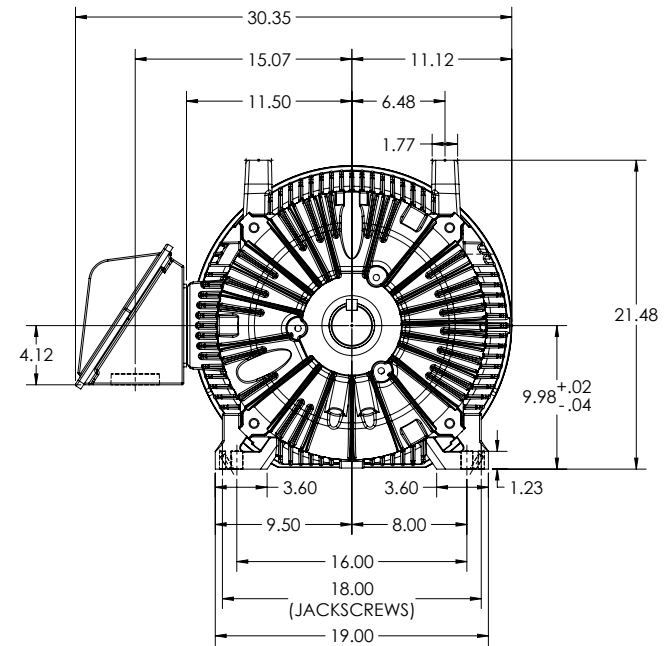
AC MOTOR
PERFORMANCE
DATA

A40WG1268-R001

ISSUE DATE 05/20/25

617429-818

ENCLOSURE ENHANCEMENT: 841-XL



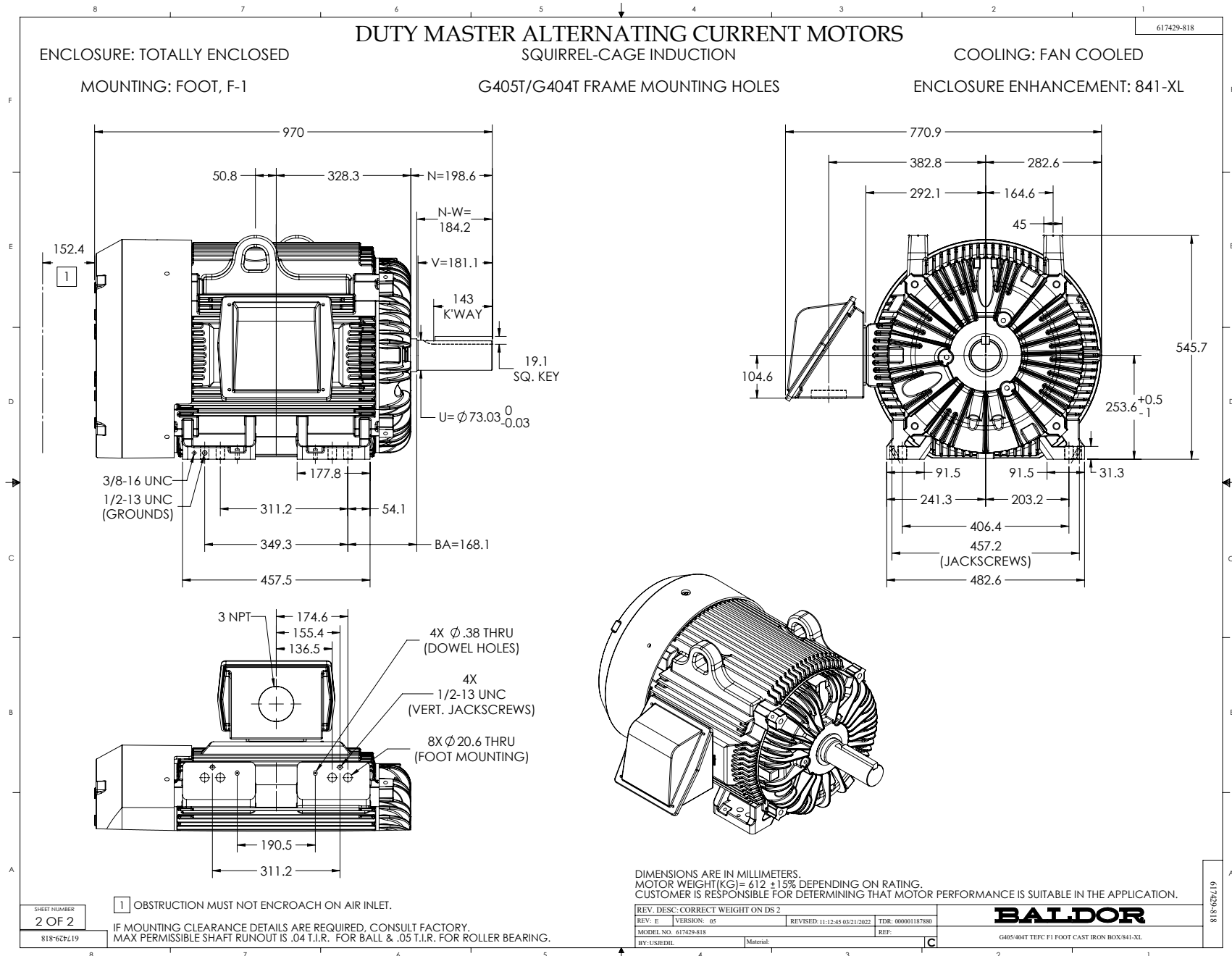
617429-818

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.
MAX PERMISSIBLE SHAFT RUNOUT IS .0015 T.I.R. FOR BALL & .002 T.I.R. FOR ROLLER BEARING.

REV. DESC: CORRECT WEIGHT ON DS 2			
REV: E	VERSION: 05	REVISED: 11:12:45 03/21/2022	TDR: 000001187880
MODEL NO. 617429-818			REF:
BY: USJFEDIL		Material:	

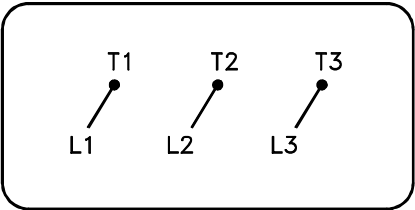
BALDOR

G405/404T TEFC F1 FOOT CAST IRON BOX/841-XL



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