



Customer information packet

DRX40144T-5

100HP, 1785RPM, 3PH, 60HZ, 405T, TEFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CSA UL
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Constant Torque Speed Range	6-60
Current @ Voltage	89.600 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	89.6 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	G

Part detail

Revision	A
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0665
Layout	617433-608
Eff. date	10-22-2021
CD Diagram	416820-036
Poles	04
Leads	3#2
Proprietary	False
Created date	07-12-2019

Lifting Lugs	Standard Lifting Lugs
Max Speed	3600 rpm
Motor Lead Quantity/Wire Size	3 @ 2 AWG
Motor Standards	NEMA
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.22 IN
Power Factor	88
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.00
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat

Nameplate

NP2496L	
MOBIL POLYREX EM	

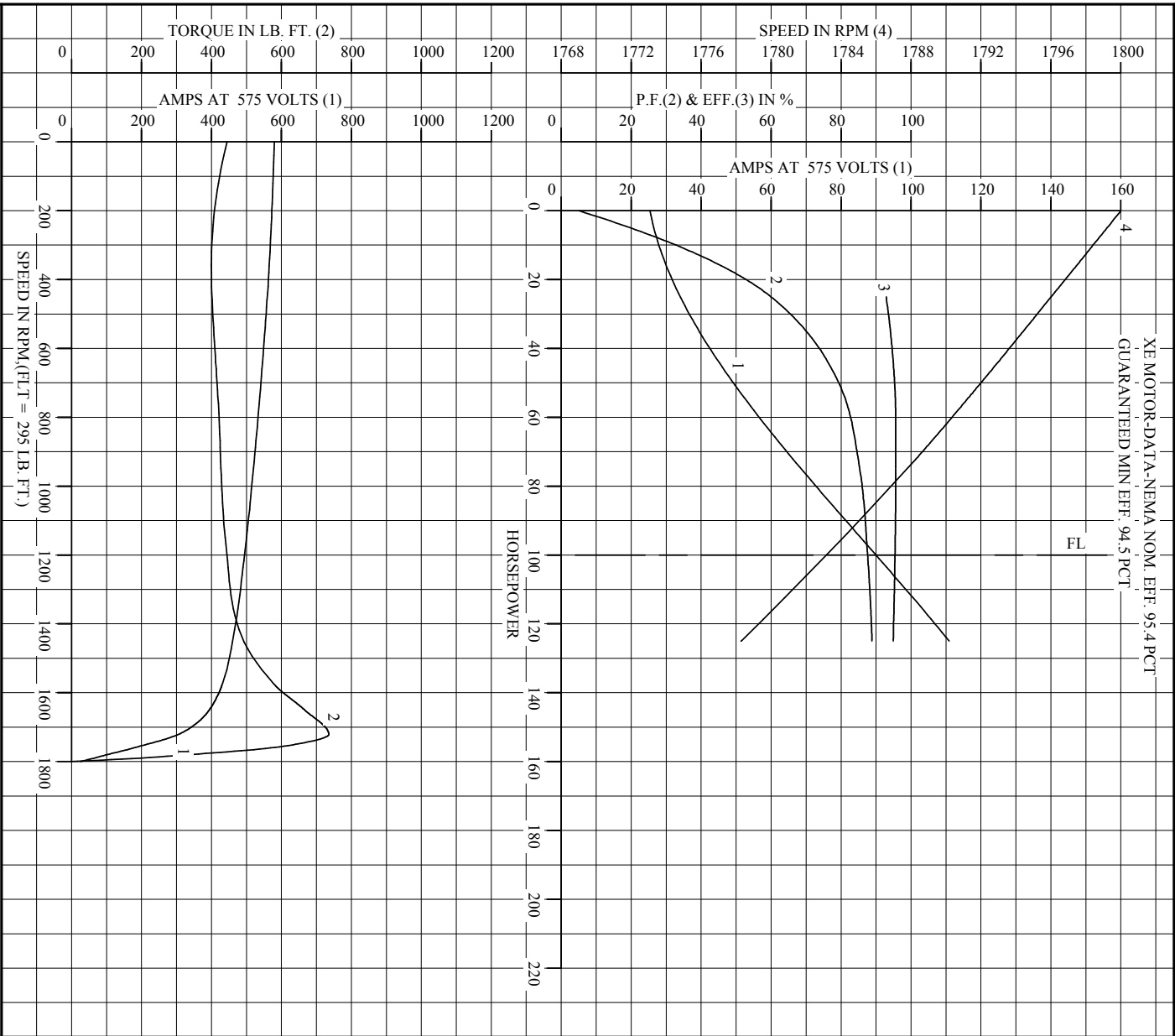
000613006PC		
CLASS I GROUP	C D X	NO.
CLASS II GROUP	X X X	
OPERATING TEMP CODE	T3C	

NP3140L

SPEC NO.	A40-7256-0665			CAT.NO.	DRX40144T-5					FRAME	405T
HP	100	VOLTS	575		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	89.6		HZ	60	AMB	40	SF	1.00	
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	80BC03J30X		ENCL	TEFC	CODE	G					
SF	1.15	WK2	26.346	MAG CUR	25.5		RPM MAX	3600			
CT HZ	6-60	VT HZ	0-60	CHP HZ	60-90		NEMA-NOM-EFF		95.4		
SER.NO.	SUIT FOR 55C AMB AT 1.00 SF					IP55					
				MOTOR WEIGHT							

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	100	P	3/60	1785	575
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
89.6	CONT	40/F	1.00	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496079	418142-33RE	---	---	.0761		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	25.5	1800	5.02	0	
1/4	25.0	33.6	1796	60.0	92.9	
2/4	50.0	49.5	1792	79.3	95.3	
3/4	75.0	68.8	1788	85.3	95.6	
4/4	100	89.6	1783	87.6	95.4	
5/4	125	111	1778	88.8	94.9	
SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	151	445	580		
PULL UP	360	136	400	565		
BREAKDOWN	1721	250	735	306		
FULL LOAD	1783	100	295	89.6		
AMPERES SHOWN FOR 575. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-DATA-NEMA NOM. EFF. 95.4 PCT GUARANTEED MIN EFF. 94.5 PCT						
 A MEMBER OF THE ABB GROUP		DR. BY G. R. WEBB CK. BY W. I. SMITH APP. BY W. I. SMITH DATE 06/23/15		A-C MOTOR PERFORMANCE DATA A40WG0665-R010 ISSUE DATE 09/17/20		

REL. S.O.		RPM	1785	S.F.	1.00	ROTOR	418142-33RE
FRAME	405T	VOLTS	575	NEMA DESIGN	B	TEST S.O.	TYPICAL DATA
HP	100	AMPS	89.6	CODE LETTER	G	TEST DATE	---
TYPE	P	DUTY	CONT	ENCLOSURE	TEFC	STATOR RES. @ 25 °C	.0761
PHASE/HERTZ	3/60	AMB °C/INSUL	40/F	E/S	496079	OHMS (BETWEEN LINES)	

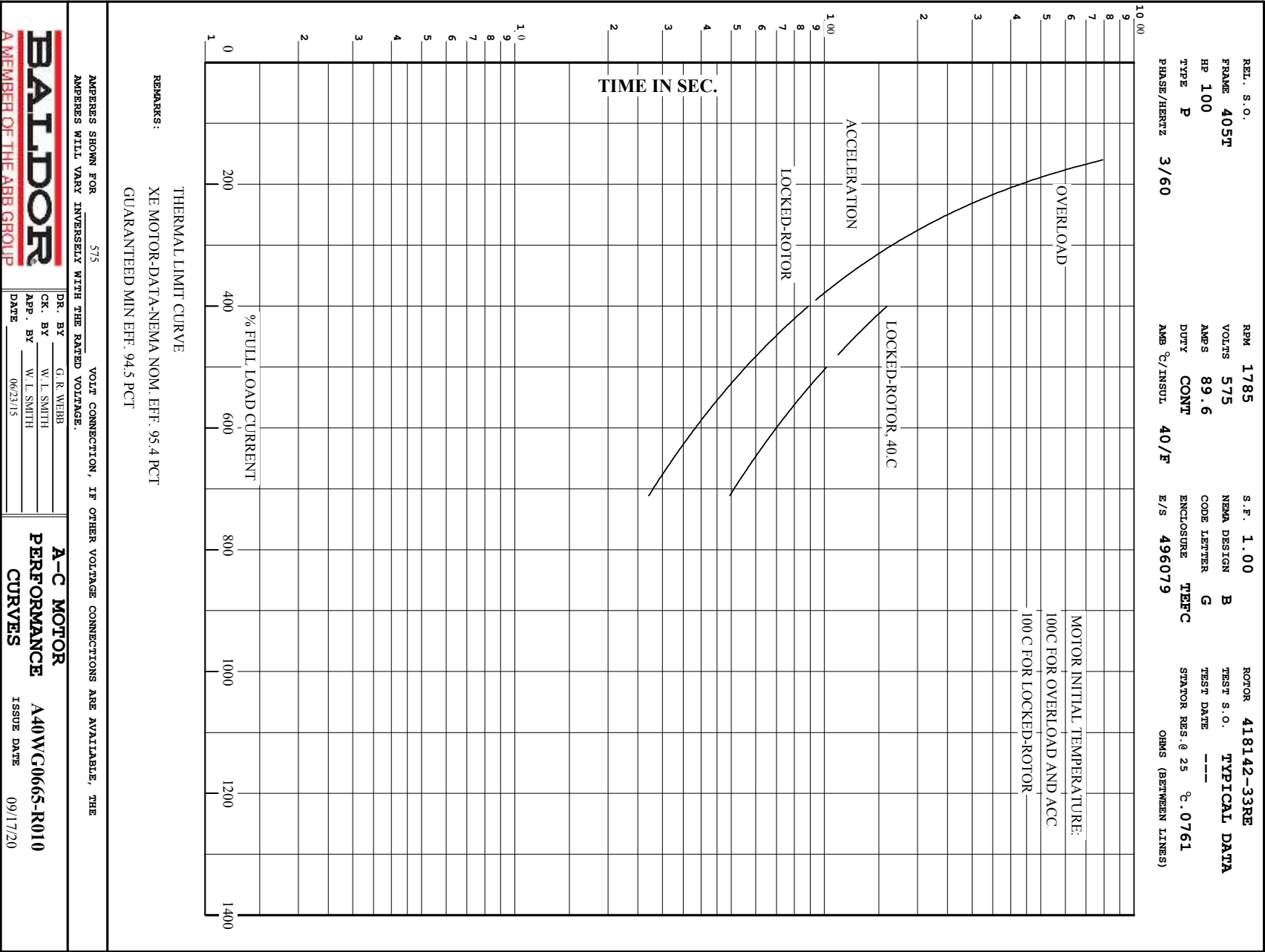


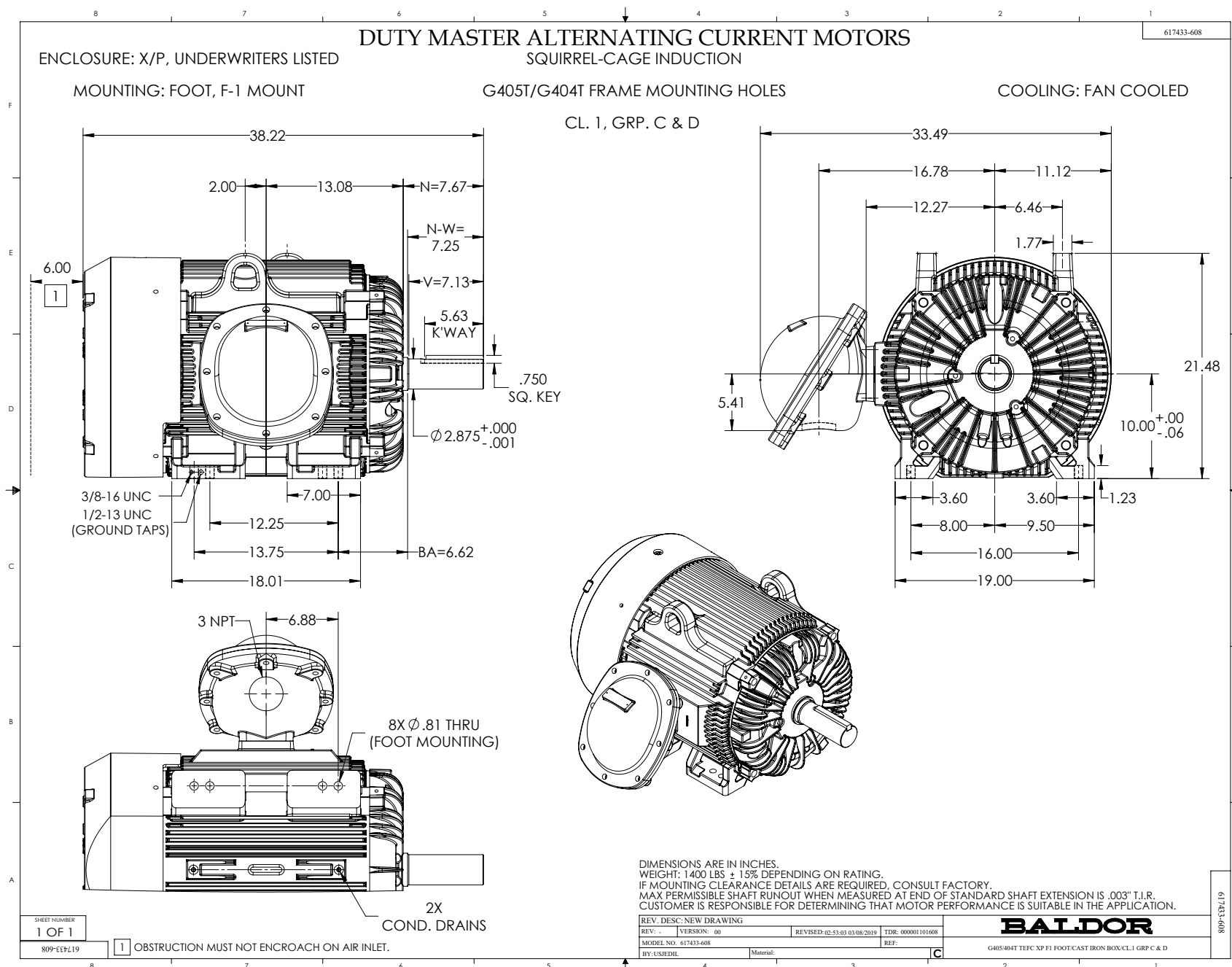
AMPERES SHOWN FOR 575 VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR
A MEMBER OF THE ABB GROUP

DR. BY _____ G. R. WEBB
CK. BY _____ W. L. SMITH
APP. BY _____ W. L. SMITH
DATE _____ 06/23/15

A-C MOTOR
PERFORMANCE
CURVES
A40W G0665-R010
ISSUE DATE 09/17/20





CONNECTION DIAGRAM
ACCESSORIES

MOTOR WINDING THERMOSTATS		
CONTACTS _____ @ _____ °C		
FIGURE NUMBER _____		
CONTACT RATING		
VOLTS	CONTINUOUS AMPERES	INRUSH AMPERES
110-120	3.0	30
220-240	1.5	15
440-480	0.75	7.5
550-600	0.60	6.0

THERMOSTATS	
NORMALLY CLOSED	NORMALLY OPEN
FIGURE 1	FIGURE 4
FIGURE 2	FIGURE 5
FIGURE 3	FIGURE 6
FIGURE 7	FIGURE 8

CUSTOMER _____ CUSTOMER ORDER NO. _____ S.O. NO. _____

418174-006

418174-006

REV. DESC: LOADED TO BUS		
REV. LTR: A	VERSION: 01	TDR: 000000570390
FILE: \RAG\00013\849	REVISED: 10:16:21 12/07/2010	BY: RAGDRF
MTL: -		

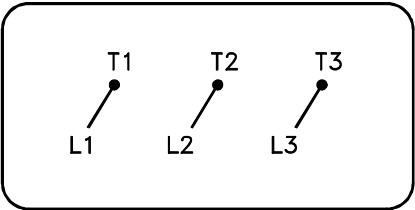
BALDOR

A-C MOTOR CONNECTION ACCESSORIES

SH 1 of 1

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