

ABB BALDOR RELIANCE III

Customer information packet

P40G381

40HP, 1190RPM, 3PH, 60HZ, 404U, A40052M, TEFC

Class -

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	404U
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	40.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	47.400 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.1 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	47.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	3 @ 4 AWG
Motor Standards	Other
Motor Type	A40052M
Mounting Arrangement	F1
Number of Poles	6

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0469
Layout	617428-015
Eff. date	09-30-2015
CD Diagram	416820-036
Poles	06
Leads	3#4
Proprietary	False
Created date	10-19-2010

Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Diameter	0.000 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1190 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2436L										
SPEC NO.	P40G381			CAT.NO.					FRAME	404U
HP	40	VOLTS	460	PHASE	3	DESIGN	B	TYPE	P	
RPM	1190	AMPS	47.4	HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	80BC03JPP30A		BLANK		DUTY	CONT		INSUL.CLASS	F	
OPP D.E. BEARING	80BC03JPP30A			ENCL	TEFC	CODE	G			
NEMA-NOM-EFF	94.1									
GUARANTEED EFFICIENCY	93.0									
SER.NO.				CAT# AEM4308-4						
MOTOR WEIGHT	1198									

NP2496L	
MOBIL POLYREX EM	

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS			
	404U	40	P	3/60	1190	460			
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.			
47.4	CONT	40/F	1.15	B	G	TEFC			
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)					
595872	418142-071-DE	---	---	.150					
PERFORMANCE									
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY				
NO LOAD	0	16.4	1200	6.99	0				
1/4	10.0	19.9	1197	53.3	88.5				
2/4	20.0	27.1	1195	74.6	92.8				
3/4	30.0	36.4	1192	82.3	93.9				
4/4	40.0	47.4	1189	84.0	94.1				
5/4	50.0	59.9	1186	83.2	93.8				
SPEED TORQUE									
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES				
LOCKED ROTOR		0	184	325	329				
PULL UP		0	184	325	329				
BREAKDOWN		1131	273	482	185				
FULL LOAD		1189	100	177	47.4				
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE REMARKS: TYPICAL DATA TYPICAL DATA									
		DR. BY C.R. THOMPSON		A-C MOTOR PERFORMANCE DATA					
		CK. BY J.T. PARKER							
		APP. BY J.T. PARKER							
		DATE 05/29/96							
				A40WG0469-R001 ISSUE DATE 12/15/10					

FRAME 404U

RPM 1190

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 47.4

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

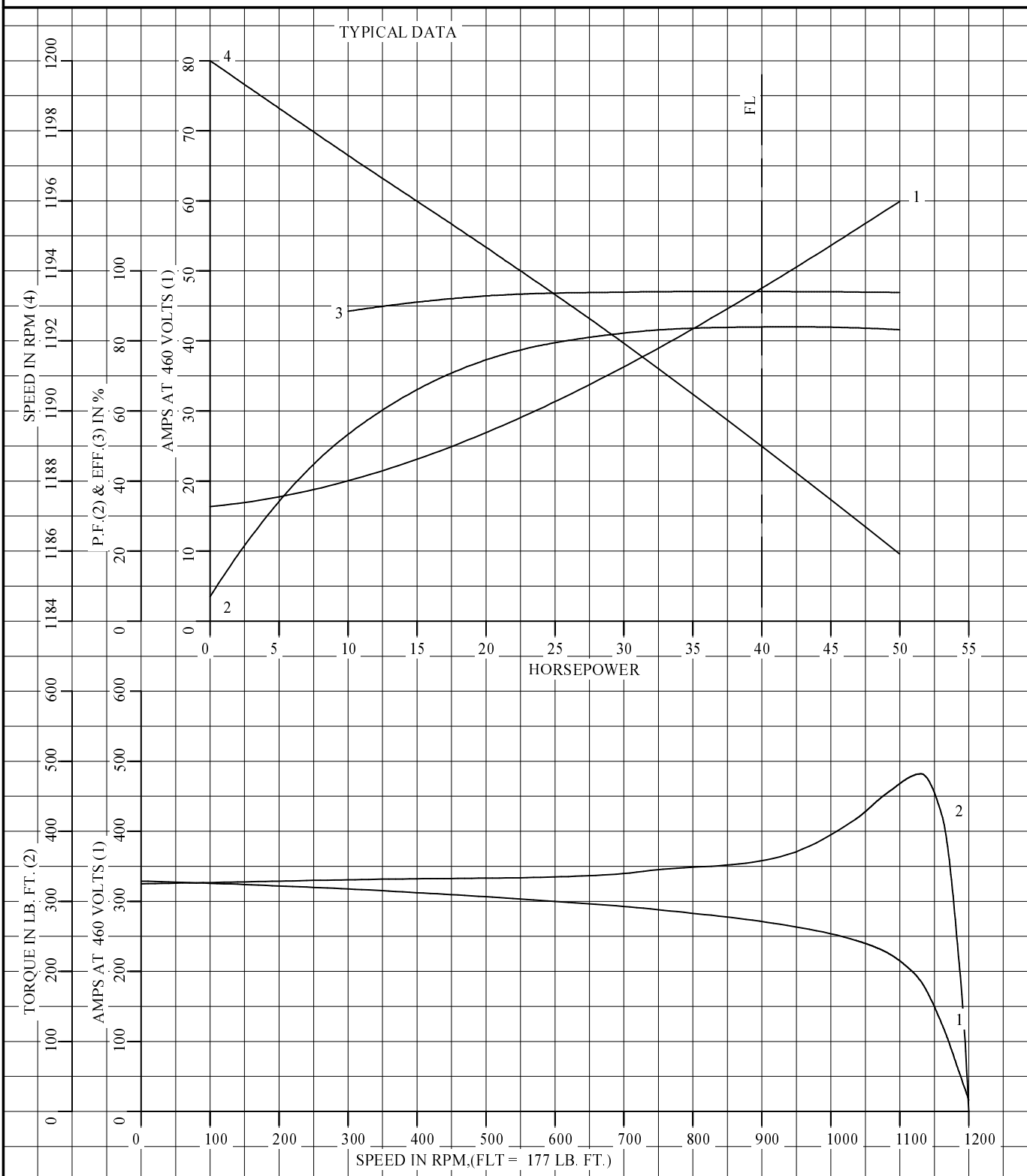
STATOR RES. @ 25 °C .150

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 595872

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 C.R. THOMPSON
CK. BY J.T. PARKER
APP. BY J.T. PARKER
DATE 05/29/96

**A-C MOTOR
PERFORMANCE
CURVES** A40WG0469-R001
ISSUE DATE 12/15/10

REL. S.O.

RPM 1190

S.F. 1.15

ROTOR 418142-071-DE

FRAME 404U

VOLTS 460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 40

AMPS 47.4

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TYPE P

DUTY CONT

ENCLOSURE TEFC

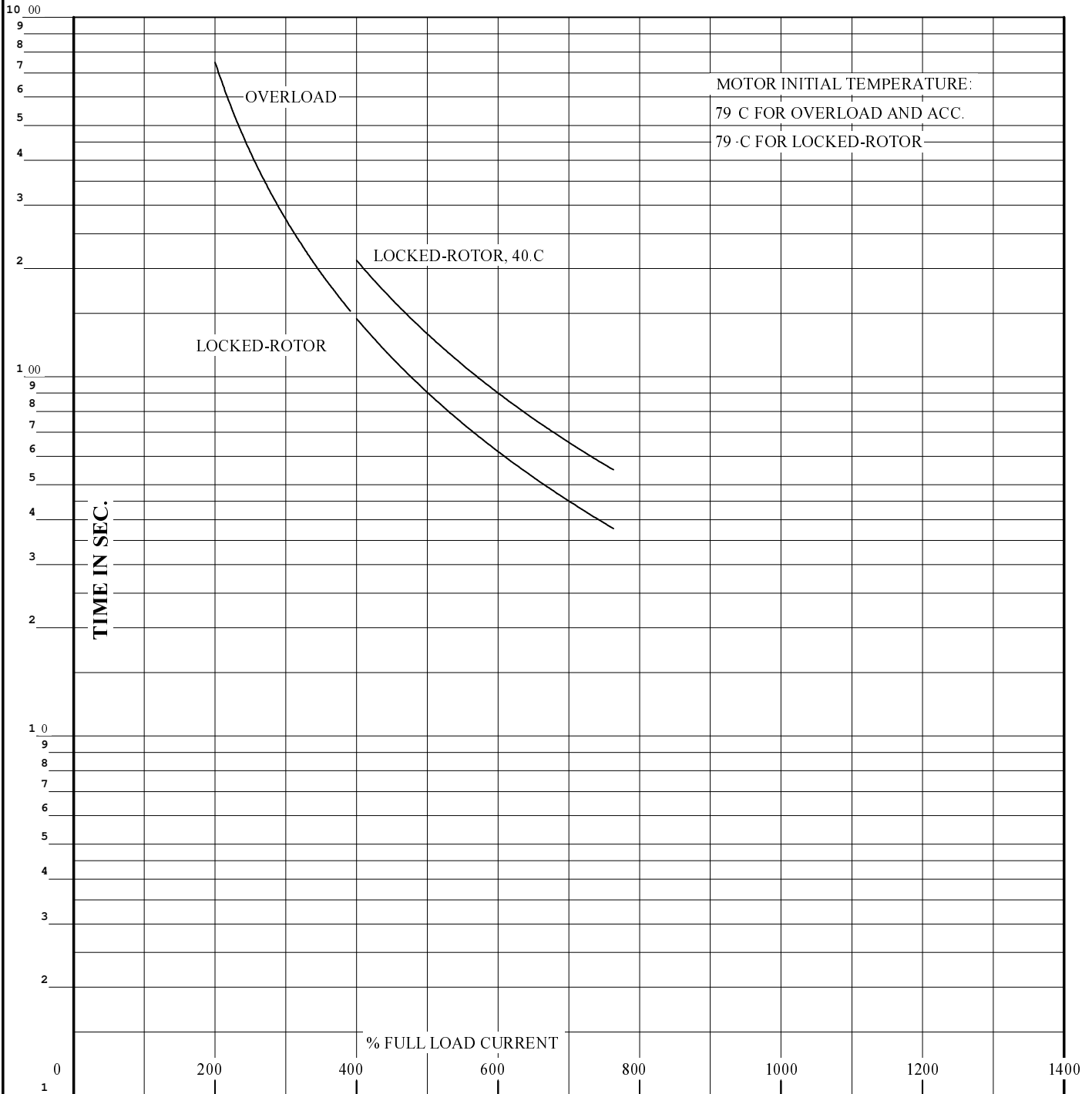
STATOR RES. @ 25 °C .150

PHASE/HERTZ 3/60

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E/S 595872

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

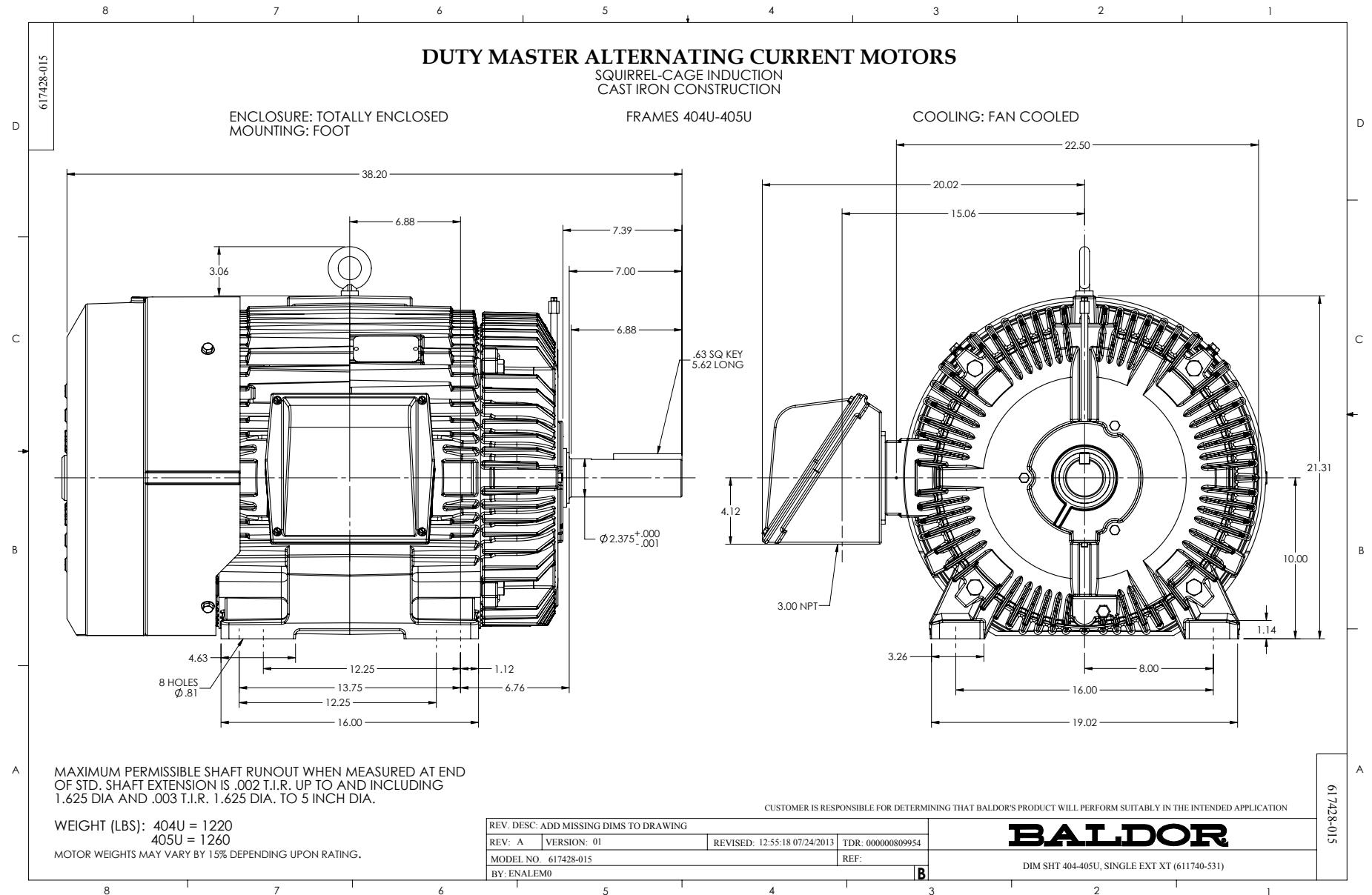
TYPICAL DATA

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BALDOR

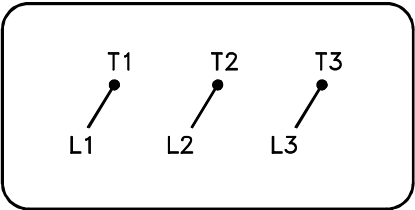
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**A-C MOTOR
PERFORMANCE CURVES** A40WG0469-R001
ISSUE DATE 12/15/10



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