



Customer information packet

EM2559T-4CI

125HP, 1785RPM, 3PH, 60HZ, 405T, ODP, FOOT,
Class - None
Division - Not Applicable

Specifications

Enclosure	DP
Frame	405T
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	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSA US CCSAUSEEV CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	141.000 A @ 460.0 V
Design Code	B
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	141.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Standards	NEMA

Part detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG0248
Layout	617428-119
Eff. date	09-04-2024
CD Diagram	416820-036
Poles	04
Leads	3#4 (02 per group)
Proprietary	False
Created date	10-19-2010

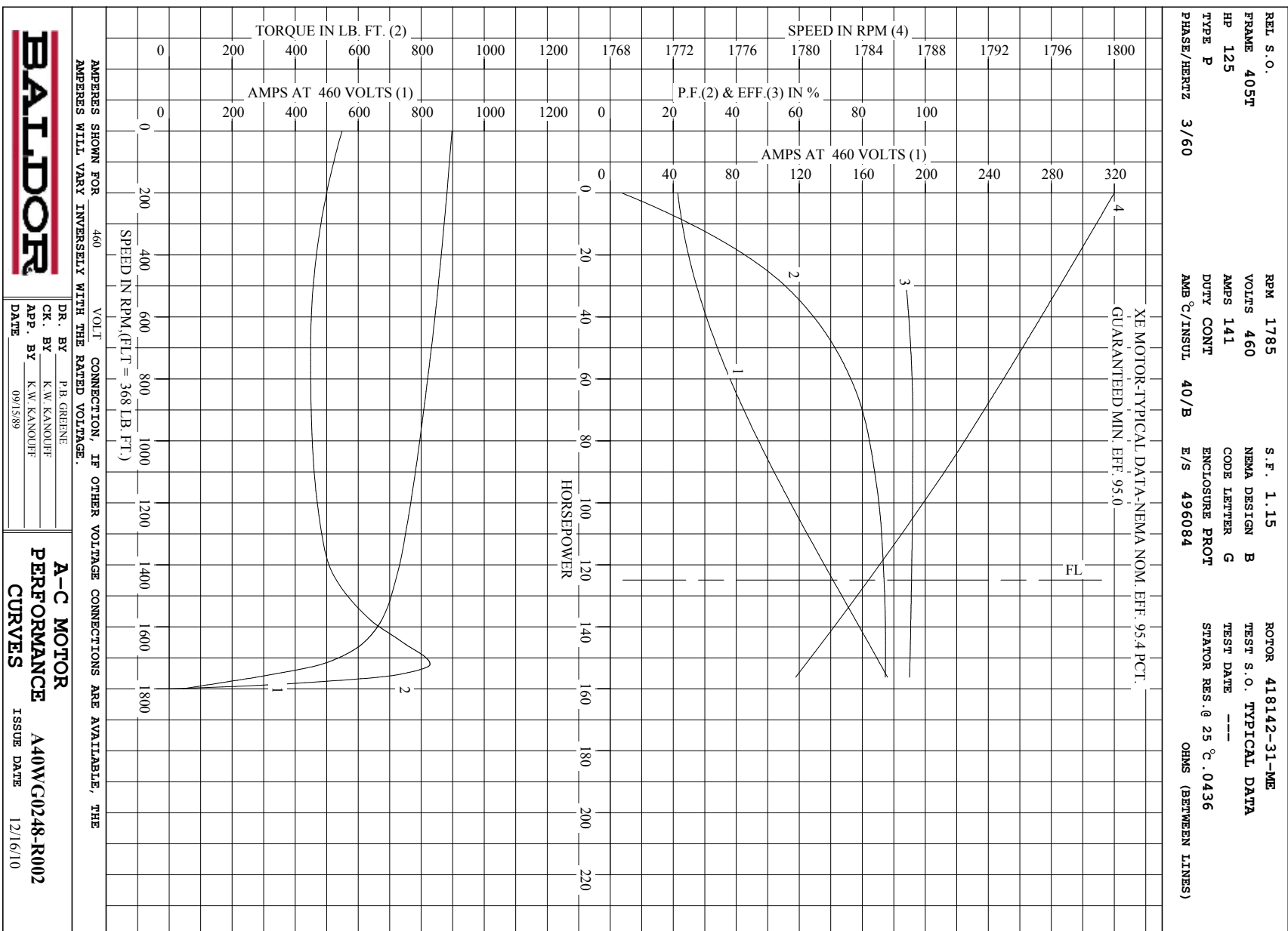
Motor Type	A40064M
Mounting Arrangement	F1
Number of Poles	4
Power Factor	87
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1785 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

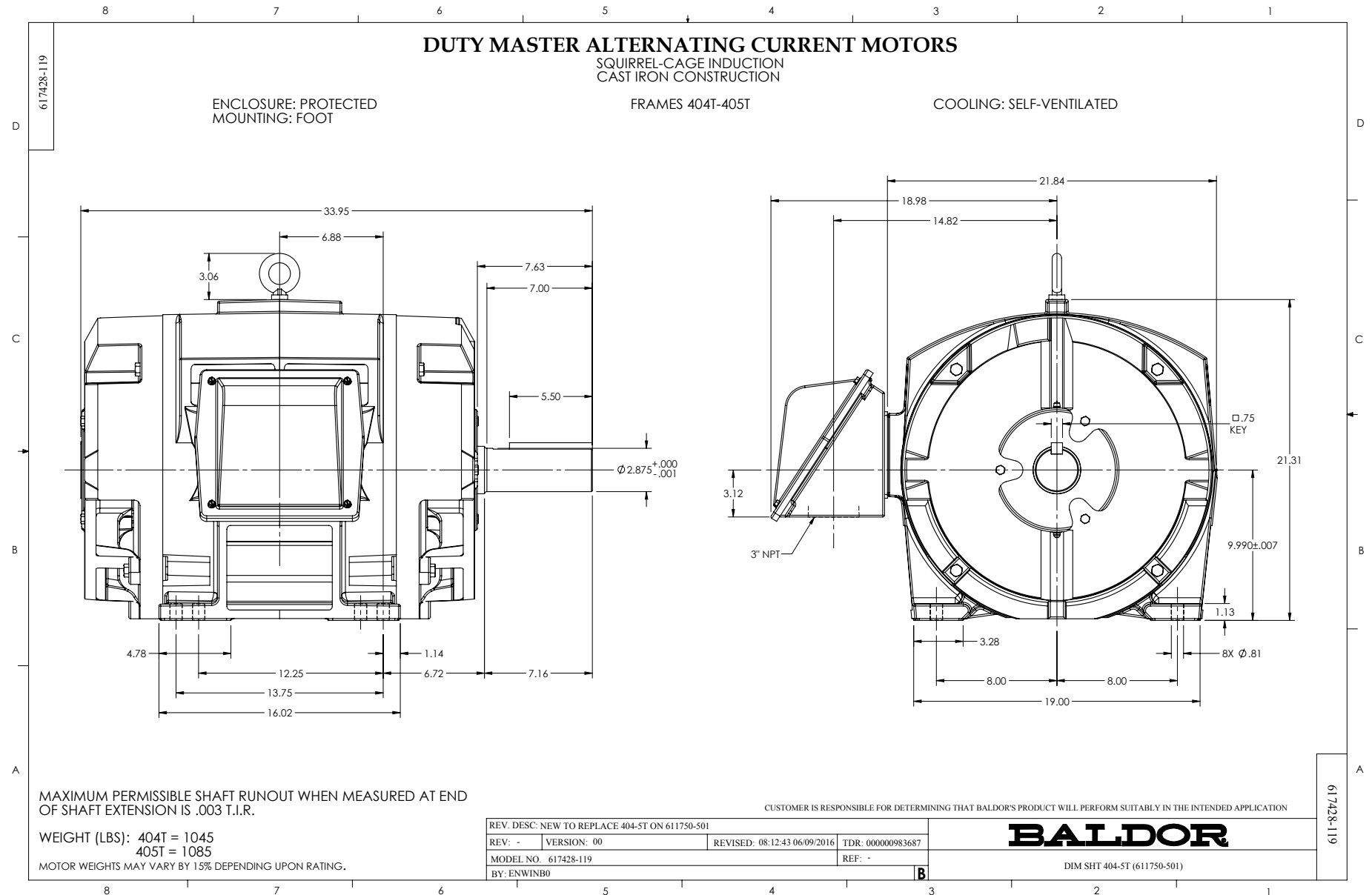
NP2349L

SPEC NO.	P40G298			CAT.NO.	EM2559T-4CI				FRAME	405T	
HP	125	VOLTS	460		PHASE	3	DESIGN	B	TYPE	P	
RPM	1785	AMPS	141		HZ	60	AMB	40	SF	1.15	
DRIVE END BEARING	80BC03J30X		DUTY	CONT	INSUL.CLASS			F			
OPP D.E. BEARING	80BC03J30X		ENCL	DP	CODE	G					
SER.NO.				POWER FACTOR	87	NEMA-NOM-EFFICIENCY				95.4	
						MAX CORR KVAR	25.0	GUARANTEED EFFICIENCY		95.0	
						NEMA NOM/CSA QUOTED EFF					
						MOTOR WEIGHT					

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	125	P	3/60	1785	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
141	CONT	40/B	1.15	B	G	PROT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)		
496084	418142-31-ME	----	----	.0436		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0	43.2	1800	3.72	0	
1/4	31.3	54.8	1796	56.9	94.1	
2/4	62.5	78.8	1793	77.4	95.9	
3/4	93.7	108	1789	84.5	96.0	
4/4	125	141	1784	86.9	95.6	
5/4	156	176	1780	87.3	95.0	
SPEED TORQUE						
	RPM	% TORQUE FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	149	549	897		
PULL UP	700	122	449	832		
BREAKDOWN	1721	225	828	484		
FULL LOAD	1784	100	368	141		
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: TYPICAL DATA XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT. GUARANTEED MIN. EFF. 95.0						
			DR. BY F.B. GREENE CK. BY K.W. KANOUFF APP. BY K.W. KANOUFF DATE 09/15/89			
			A-C MOTOR PERFORMANCE DATA A40WG0248-R002 ISSUE DATE 12/16/10			

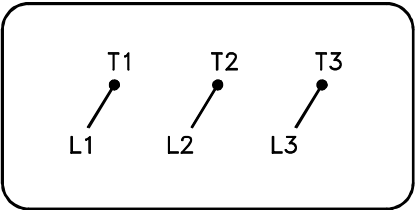


REL. S.O. FRAME 405T HP 125 TYPE P PHASE/HERTZ 3/60	RPM 1785 VOLTS 460 AMPS 141 DUTY CONT AMB °C/INSUL 40/B	S.F. 1.15 NEMA DESIGN B CODE LETTER G ENCLOSURE PROT E/S 496084	ROTOR 418142-31-ME TEST S.O. TYPICAL DATA TEST DATE --- STATOR RES. @ 25 °C. 0436 OHMS (BETWEEN LINES)
10 00 9 8 7 6 5 4 3 2 1 0			
OVERLOAD			
ACCELERATION			
LOCKED-ROTOR, 40 °C			
LOCKED-ROTOR			
MOTOR INITIAL TEMPERATURE: 92 °C FOR OVERLOAD AND ACC. 92 °C FOR LOCKED-ROTOR			
TIME IN SEC.			
1.00 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0			
200 400 600 800 1000 1200 1400			
% FULL LOAD CURRENT			
THERMAL LIMIT CURVE REMARKS: XE MOTOR-TYPICAL DATA-NEMA NOM. EFF. 95.4 PCT. GUARANTEED MIN. EFF. 95.0			
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.			
BALDOR A-C MOTOR PERFORMANCE CURVES A40WG0248-R002 ISSUE DATE 12/6/10			
DR. BY P.B. GREENE CK. BY K.W. KANOLFF APP. BY K.W. KANOLFF DATE 09/15/89			



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 CONN DIAG - STANDARD 3 LEAD SH 1 of 1
REV. LTR: -	VERSION: 00	TDR: 000000538207	
FILE: \MGA\00000\682		REVISED: 11: 54: 06 04/30/2010	
MTL: -		BY: RAGRA	