

ABB BALDOR RELIANCE III

Customer information packet

CSPM4402TS-4

100HP, 3575RPM, 3PH, 60HZ, 405TSC, A4072M, TEF

Class - CLI GP A,B,C,D; CLII GP F,G

Division - Division II

Specifications

Enclosure	TEFC
Frame	405TSC
Frame Material	Cast Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D; CLII GP F,G
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CCSAUSEEV CURUSEEV NEMA_PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	114.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.0 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	114.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Max Speed	4200 rpm
Motor Lead Quantity/Wire Size	3 @ 4 AWG

Part Detail

Revision	C
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	A40WG5798
Layout	617437-732
Eff. date	09-08-2026
CD Diagram	416820-036
Poles	02
Leads	3#4
Proprietary	False
Created date	12-10-2024

Motor Standards	NEMA
Motor Type	A4072M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	35.20 IN
Power Factor	87
Product Family	General Industrial
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3575 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2496L	
MOBIL POLYREX EM	

NP4562L

CAT NO	CSPM4402TS-4	SPEC NO.	A40-5002-5798	I.P.	55				
HP	100	AMPS	116	VOLTS	460	DESIGN	A		
FRAME SIZE	405TSC	RPM	3575	MAX RPM	4200	HZ	60	AMB	40 C
D.E. BRG.	80BC03J30X	PH.3	3	DUTY	CONT	INSUL.CLASS	F		
O.D.E. BRG.	80BC03J30X	TYPE P		ENCL	TEFC	SF	1.15	CODE	L
POWER FACTOR	84	MAX CORR KVAR	22.3	NEMA NOM EFFICIENCY	95	MOTOR WEIGHT		LBS	
CL.I,DIV 2,GRP:	A,B,C,D	T.CODE	T3	CL.1,ZONE 2,GRP:		IIA,IIB,IIC	T= 200	C	INVERTER T.CODE T3
CL.II,DIV 2,GRP:	F,G	T.CODE	T3C	CL II ZONE 22 GRPS IIIB		T=	160	C	INVERTER T.CODE T3
ID LOGO	INV TYPE:	VPWM	CT 15	TO 60	VT 3	TO 60	CHP 60	TO 70	
ID LOGO	1.0 SF VPWM	WK2	16	LBFT2	SL HZ	0.43	MAG CUR	43.6	
SER.NO.		MEETS INTENT OF IEEE-45				FOR WEATHER PROTECTION			

CSPM4402TS-4 - 100HP, 3575RPM, 3PH, 60HZ, 405TSC, A4072M, TEF								
S/O	CUSTOMER INFORMATION	FRAME	PACKET	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405	100	P	3/60	3575	460		
AMPS	DUTY	AMB °C/ INSUL	S.F.	NEMA DESIGN	CODE LETTER	ENCLOSURE		
116	CONT	40/F	1.15	A	L	TEFC		
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C OHMS (BETWEEN LINES)				
---	A40RC2072A00	---	---	.0362				
PERFORMANCE								
LOAD	HP	AMPERES	RPM	% POWER FACTOR		% EFFICIENCY		
NO LOAD	0	43.6	3600	5.82		0		
1/4	25.0	52.9	3594	49.3		89.7		
2/4	50.0	70.4	3587	71.0		93.7		
3/4	75.0	92.1	3581	80.4		94.8		
4/4	100	116	3574	84.6		95.0		
5/4	125	141	3568	87.3		94.9		
SPEED TORQUE								
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.		AMPERES		
LOCKED ROTOR		0	439	645		1240		
PULL UP		2130	364	535		1055		
BREAKDOWN		3380	425	625		650		
FULL LOAD		3574	100	147		116		
AMPERES SHOWN FOR 460 VOLT CONNECTION. IF OTHER CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.								
TYPICAL DATA XE MOTOR-NEMA NOM. EFF. 95.0 %								
		DRAWN BY: <u>W. L. SMITH</u>		AC MOTOR PERFORMANCE DATA		A40WG5798-R002 DATE ISSUED 01/30/26		
		CHECKED BY: <u>G. R. WEBB</u> APPROVED BY: <u>E.J. CHRISTIAN</u> DATE: <u>01/23/02</u>						

FRAME 405

RPM 3575

S.F. 1.15

ROTOR A40RC2072A00

HP 100

VOLTS 460

NEMA DESIGN A

TEST S.O. TYPICAL DATA

TYPE P

AMPS 116

CODE LETTER L

TEST DATE ---

PHASE / HERTZ 3/60

DUTY CONT

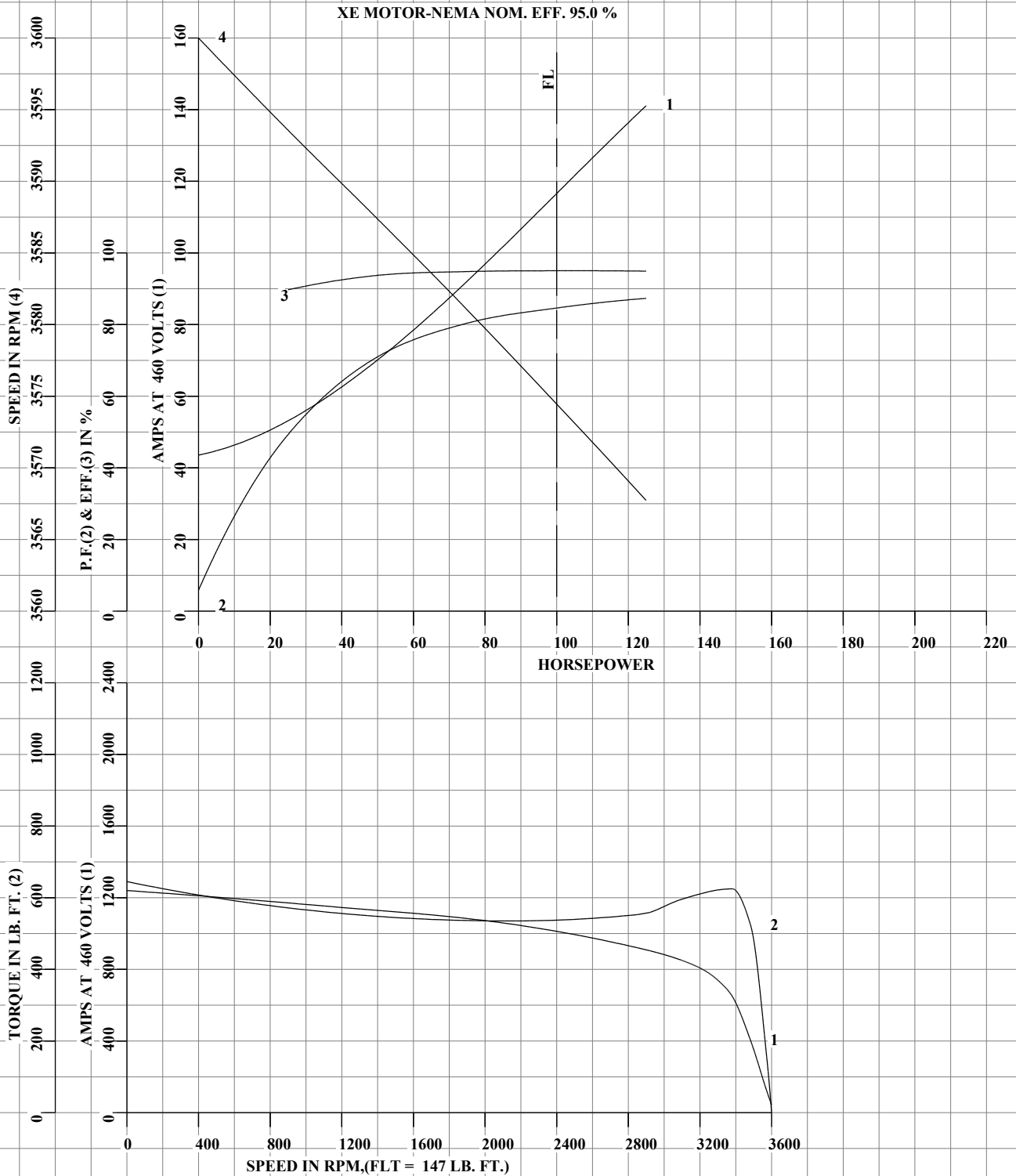
ENCLOSURE TEFC

STATOR RES. @ 25°C .0362

AMB °C / INSUL 40/F

E/S ---

OHMS (BETWEEN LINES)



AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

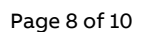


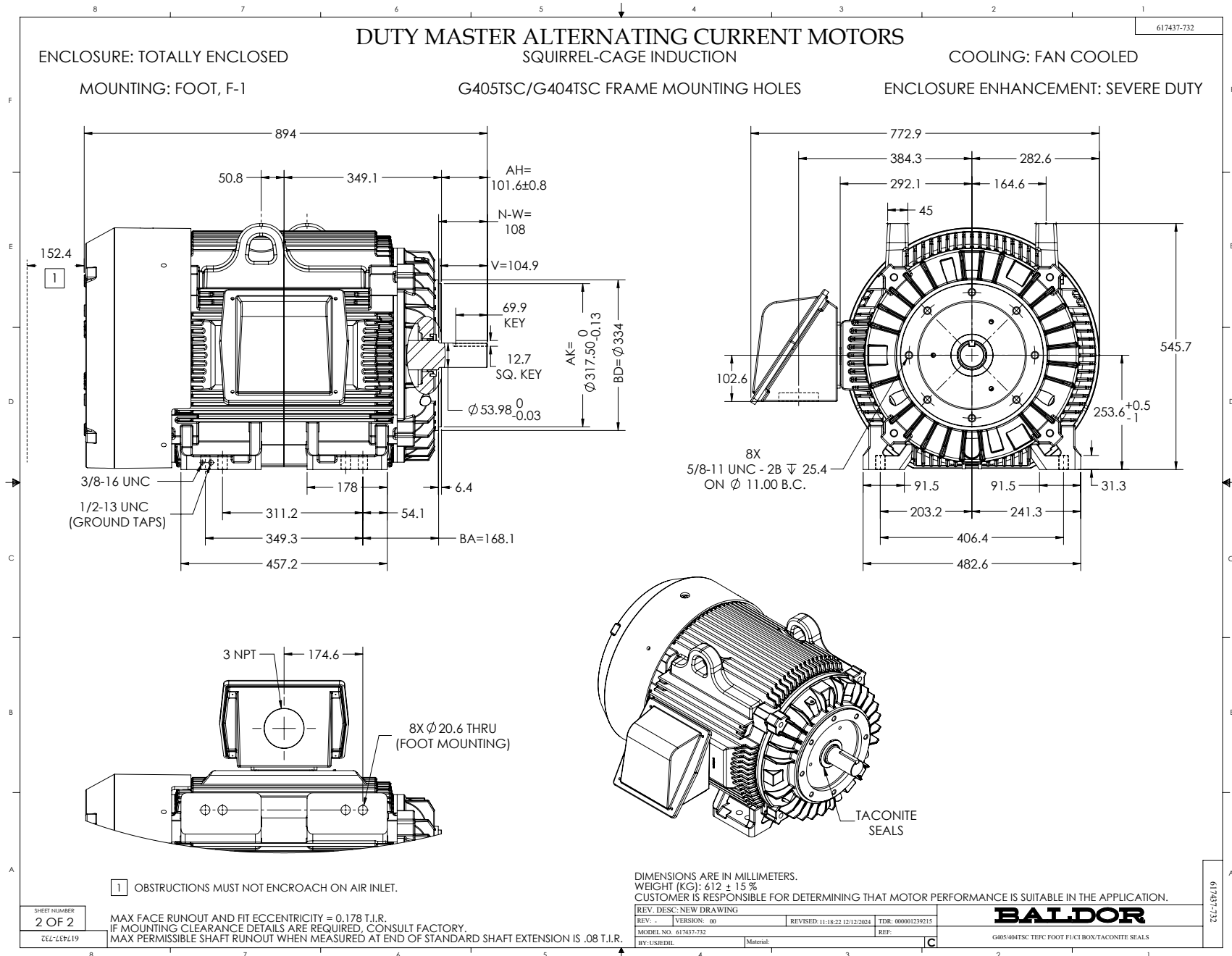
DRAWN BY: W. L. SMITH
 CHECKED BY: G. R. WEBB
 APPROVED BY: E.J. CHRISTIAN
 DATE: 01/23/02

AC MOTOR
 PERFORMANCE
 DATA

A40WG5798-R002

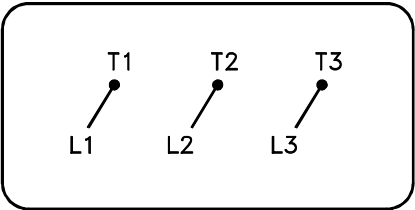
ISSUE DATE 01/30/26





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