

ABB BALDOR RELIANCE III

Customer information packet

M4400T-12

100HP, 1775RPM, 3PH, 60HZ, 405T, 1480M, TEFC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
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	100.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 HZ
Agency Approvals	CSA EEV CCSA US
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	232.000 A @ 230.0 V 116.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	94.5 %
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	116.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	G
Lifting Lugs	No Lifting Lugs
Motor Lead Quantity/Wire Size	12 @ 6 AWG

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0569
Layout	611740-001-SH1
Eff. date	05-17-2022
CD Diagram	416820-020
Poles	04
Leads	12#6
Proprietary	False
Created date	10-19-2010

Motor Standards	NEMA
Motor Type	A40054M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	38.31 IN
Power Factor	85
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Service Factor	1.15
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2498L												
CAT.NO.	M4400T-12					SPEC NO.		P40G4668				
HP	100	AMPS	232/116			VOLTS		230/460			DESIGN	B
FRAME	405T		RPM	1780	HZ	60	AMB	40	SF	1.15		
DRIVE END BEARING	80BC03J30X			PHASE	3	DUTY	CONT		INSUL.CLASS		F	
OPP D.E. BEARING	80BC03J30X			TYPE	P	ENCL	TEFC	CODE	G			
SER.NO.				POWER FACTOR			85.3		NEMA-NOM-EFFICIENCY			94.5
	FOR EXPORT ONLY						MAX CORR KVAR		22.0	GUARANTEED EFFICIENCY		94.1
							NEMA NOM/CSA QUOTED EFF					
							MOTOR WEIGHT					

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psecs-motoren

FRAME 405T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 232/116

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

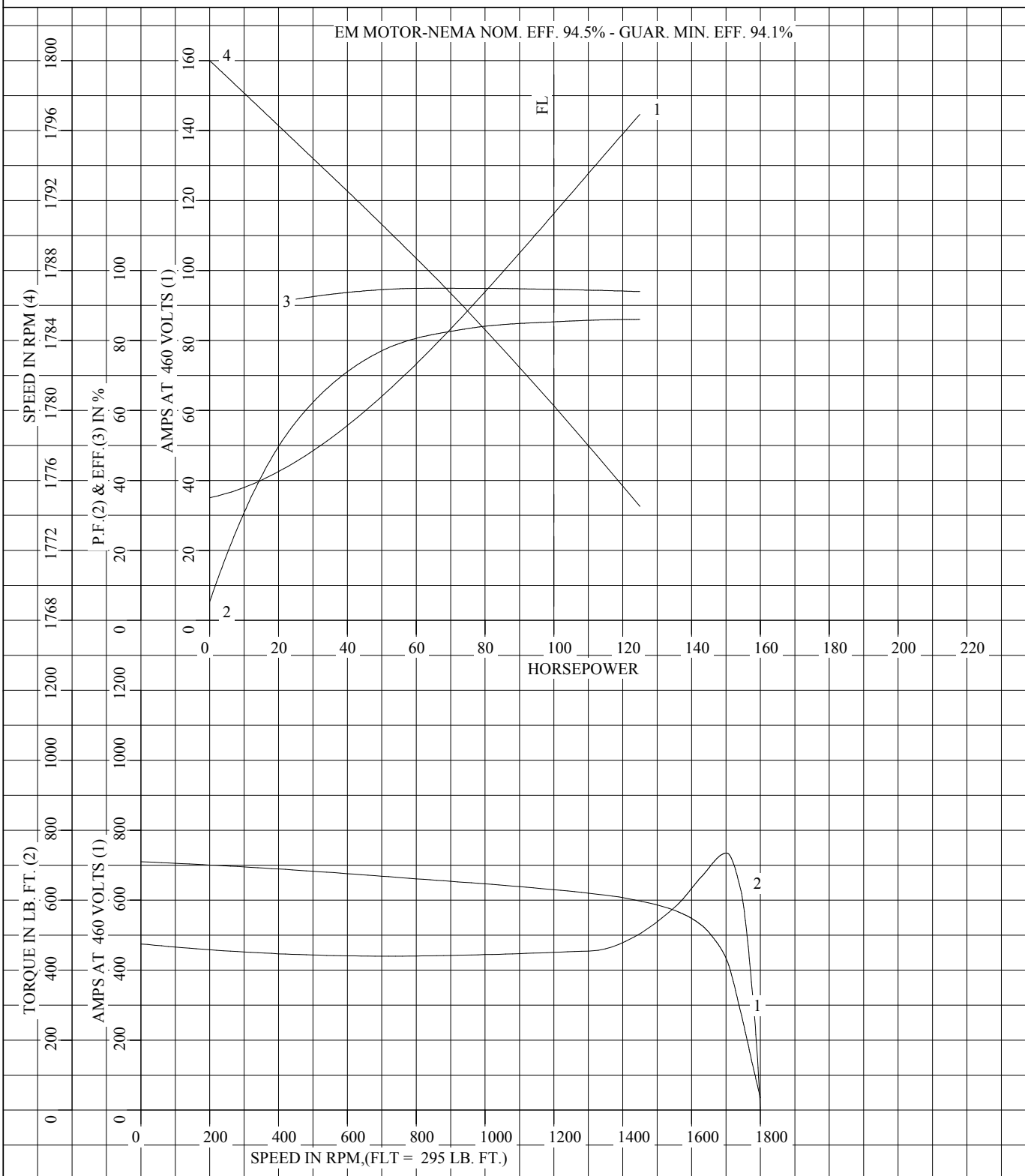
STATOR RES. @ 25 °C .0168/.0673

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 496562

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 J.J.HARRISON
CK. BY G.R.WEBB
APP. BY W.L.SMITH
DATE 08/10/02

**A-C MOTOR
PERFORMANCE A40WG0569-R001
CURVES ISSUE DATE 12/16/10**

REL. S.O.

RPM 1780

S.F. 1.15

ROTOR 418142033SE

FRAME 405T

VOLTS 230/460

NEMA DESIGN B

TEST S.O. TYPICAL DATA

HP 100

AMPS 232/116

CODE LETTER G

TEST DATE ---

TYPE P

DUTY CONT

ENCLOSURE TEFC

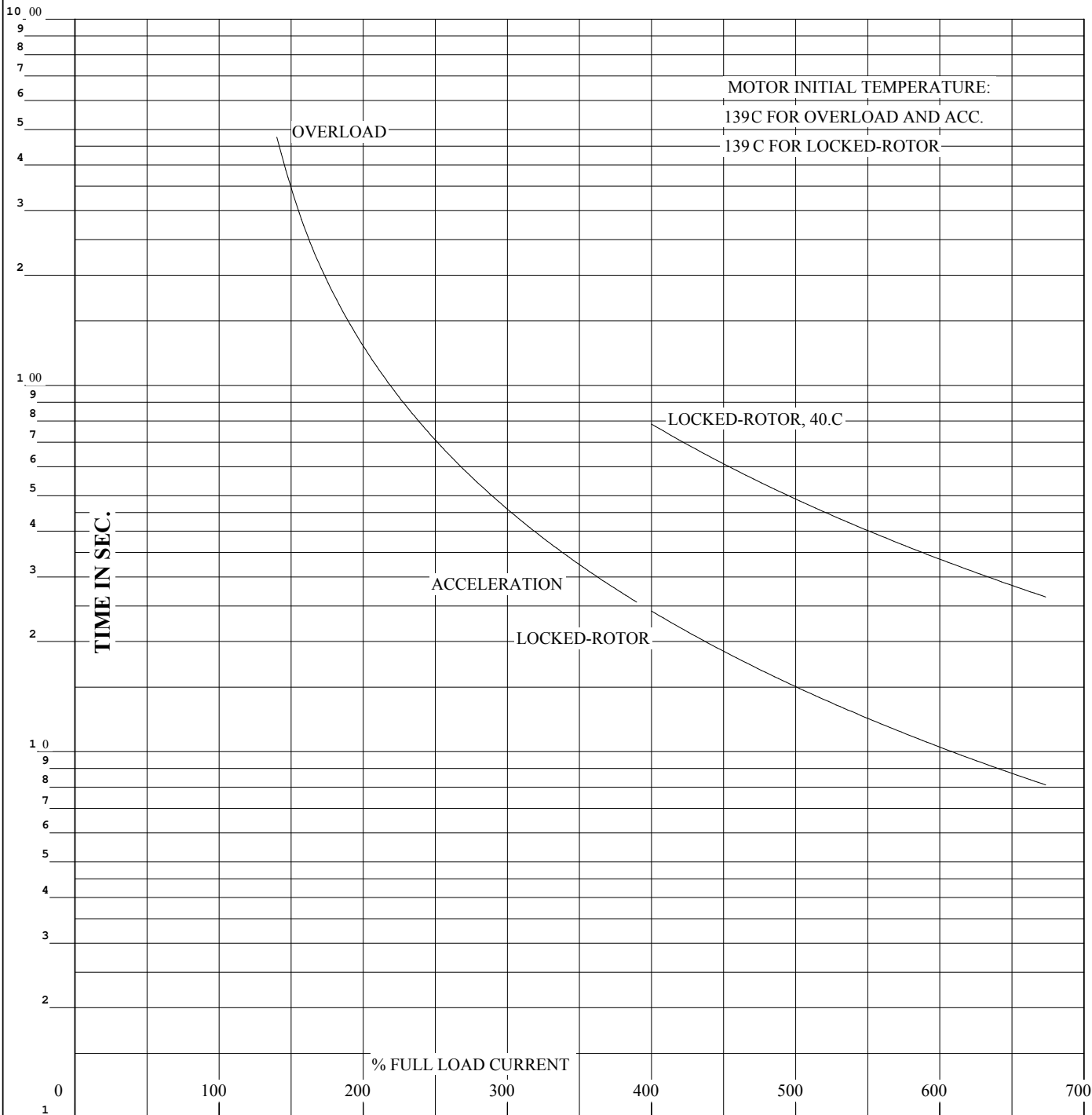
STATOR RES. @ 25 °C .0168/.0673

PHASE/HERTZ 3/60

AMB °C/INSUL 40/F

E/S 496562

OHMS (BETWEEN LINES)



THERMAL LIMIT CURVE

REMARKS:

EM MOTOR-NEMA NOM. EFF. 94.5% - GUAR. MIN. EFF. 94.1%

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



DR. BY J.J.HARRISON
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DATE 08/10/02

**A-C MOTOR
PERFORMANCE A40WG0569-R001
CURVES**

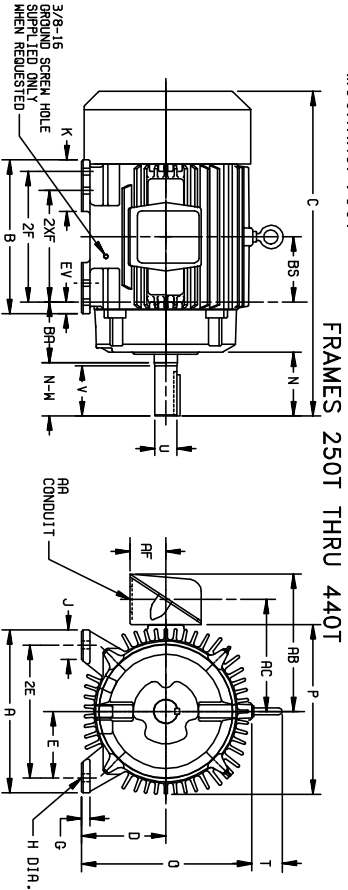
ISSUE DATE 12/16/10

611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

COOLING: FAN COOLED



DIMENSIONS ARE IN INCHES. SEE SHEET 2 FOR DIMENSIONS IN MILLIMETERS

FRAME	A	D(2)	E	G	H	J	K	O	P	T	AA	AB	AC	AF	BA	EV
254T-256T	12.50	6.25	5.00	.75	.56	2.50	---	13.25	13.25	2.44	1-1/4	10.75	8.75	2.50	4.25	1.00
284T-296T	13.75	7.00	5.50	.75	.56	2.50	---	14.75	14.88	2.44	1-1/2	12.75	10.00	3.19	4.75	1.00
324T-326T	15.50	8.00	6.25	.88	.69	2.75	4.50	16.69	17.00	2.44	2	15.19	11.44	4.25	5.25	1.38
364T-365T	17.00	9.00	7.00	.88	.69	2.75	3.88	18.50	19.50	2.94	3	16.08	14.00	5.38	5.88	1.38
404T-405T	19.00	10.00	8.00	1.12	.81	3.25	4.62	21.31	22.50	2.94	3	19.31	15.25	5.38	6.62	1.13
444T-445T	21.00	11.00	9.00	1.12	.81	3.25	5.25	23.38	25.25	3.25	3	23.38	18.12	6.50	7.50	1.25

FRAME	SIZE	C	BS	B	2F	(4) 2XF	N	N-W(6) U(3)	LOAD AND KEY				LGTH. LBS. (5)
									V	SQ.	KEY	WEIGHT	
254T	24.56	5.00	12.00	---	---	8.25	4.12	4.00	1.625	3.75	3.75	2.88	305
256T	24.56	5.00	12.00	10.00	---	---	4.12	4.00	1.625	3.75	3.75	2.88	315
284T	27.44	5.50	13.00	---	---	9.50	5.00	4.62	1.875	4.38	5.00	3.25	435
284T	27.44	5.50	13.00	---	---	9.50	3.62	3.25	1.625	3.00	3.75	1.88	435
286T	27.44	5.50	13.00	11.00	---	---	5.00	4.62	1.875	4.38	5.00	3.25	450
286T	26.06	5.50	13.00	11.00	---	---	3.62	3.25	1.625	3.00	3.75	1.88	450
324T	30.44	6.00	14.75	---	---	10.50	5.62	5.25	2.125	5.00	5.00	3.88	540
324T	28.94	6.00	14.75	---	---	10.50	4.12	3.75	1.875	3.50	5.00	2.00	540
326T	30.44	6.00	14.75	12.00	---	---	5.62	5.25	2.125	5.00	5.00	3.88	580
326T	28.94	6.00	14.75	12.00	---	---	4.12	3.75	1.875	3.50	5.00	2.00	580
364T	33.44	6.12	15.00	---	---	11.25	6.25	5.88	2.375	5.62	6.25	4.25	800
364T	31.31	6.12	15.00	---	---	11.25	4.12	3.75	1.875	3.50	5.00	2.00	794
365T	33.44	6.12	15.00	12.25	---	---	6.25	5.88	2.375	5.62	6.25	4.25	840
404T	38.31	6.88	16.00	---	---	12.25	7.50	7.25	2.875	7.00	7.50	5.62	1120
404T	38.31	6.88	16.00	---	---	12.25	4.50	4.25	2.125	4.00	5.00	2.75	1111
405T	38.31	6.88	16.00	13.75	---	---	7.50	7.25	2.875	7.00	7.50	5.62	1160
405T	35.31	6.88	16.00	---	---	---	4.50	4.25	2.125	4.00	5.00	2.75	1151
444T	44.62	8.25	19.00	---	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	1540
444T	40.88	8.25	19.00	---	---	14.50	5.19	4.75	2.375	4.50	6.25	3.00	1524
445T	44.62	8.25	19.00	16.50	---	---	8.94	8.50	3.375	8.25	8.75	6.88	1724
445T	40.88	8.25	19.00	16.50	---	---	5.19	4.75	2.375	4.50	6.25	3.00	1714

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES $\begin{cases} \text{---} 250T \text{ ---} 320T +.00, \text{---}.03. \\ \text{---} 360T \text{ ---} 440T +.00, \text{---}.06. \end{cases}$
- (3) "U" VARIES $\begin{cases} \text{---} \text{UP TO } 1.625 \text{ DIA.} +.0000, \text{---}.0005 \\ \text{---} 1.625 \text{ AND LARGER} +.000, \text{---}.001. \end{cases}$
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +.00, ---.25.

FRAME _____ TYPE _____ CERTIFIED FOR _____
ORDER _____ ITEM _____ HP _____ RPM _____ PH _____ HZ _____ VOLTS _____
RELIANCE SALES ORDER _____ APPROVED BY _____ DATE _____

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

REV. DESC: UPDATE TITLE SHEET 2

REV. LTR: B

VERSION: 02

TDR: 000000498266

FILE: \RAG\00000\167

REVISED: 07: 05: 46 04/29/2009

MTL: --

BY: RAGEC

Baldor • Dodge • Reliance

DIM SHEET 250T THRU 440T

SH 1 of 1

611740-001-SH1

