ABB BALDOR RELIANCE

Customer information packet

M4400T

100HP, 1775RPM, 3PH, 60HZ, 405T, 1480M, TEFC
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	405T
Frame Material	Iron
Frequency	60.00 Hz
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	CCSA US
	CSA EEV
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Current @ Voltage	116.000 A @ 460.0 V
	232.000 A @ 230.0 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	3 @ 2 AWG
Motor Standards	NEMA

Part Detail

Revision	F
Type	AC
Mech. spec.	
Base	
Status	INA/A
Elec. spec.	A40WG0482
Layout	611740-001-SH1
Eff. date	03-04-2016
CD Diagram	416820-002
Poles	04
Leads	3#2,6#6
Proprietary	False
Created date	10-19-2010

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	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None

Nameplate

NP2498L												
CAT.NO.	M4400T			**SPEC NO.**	P40G4665							
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	1180			

REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	405T	100	P	3/60	1780	230/460

AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
232/116	CONT	40/F	1.15	B	G	TEFC

E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)
496537	418142033SE	---	---	.0168/.0673

PERFORMANCE

LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY
NO LOAD	0	35.1	1800	5.34	0
1/4	25.0	45.0	1795	56.7	91.8
2/4	50.0	64.3	1791	77.0	94.5
3/4	74.9	88.7	1786	83.4	94.9
4/4	100	116	1780	85.3	94.6
5/4	125	145	1775	86.0	94.0

SPEED TORQUE

	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	161	475	710
PULL UP	720	149	440	667
BREAKDOWN	1702	249	735	430
FULL LOAD	1780	100	295	116

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

REMARKS: TYPICAL DATA
EM MOTOR-NEMA NOM. EFF. 94.5% - GUAR. MIN. EFF. 94.1%

BALDOR

DR. BY D. F. DUNN
CK. BY D. M. BYRD
APP. BY D. M. BYRD
DATE 07-30-93

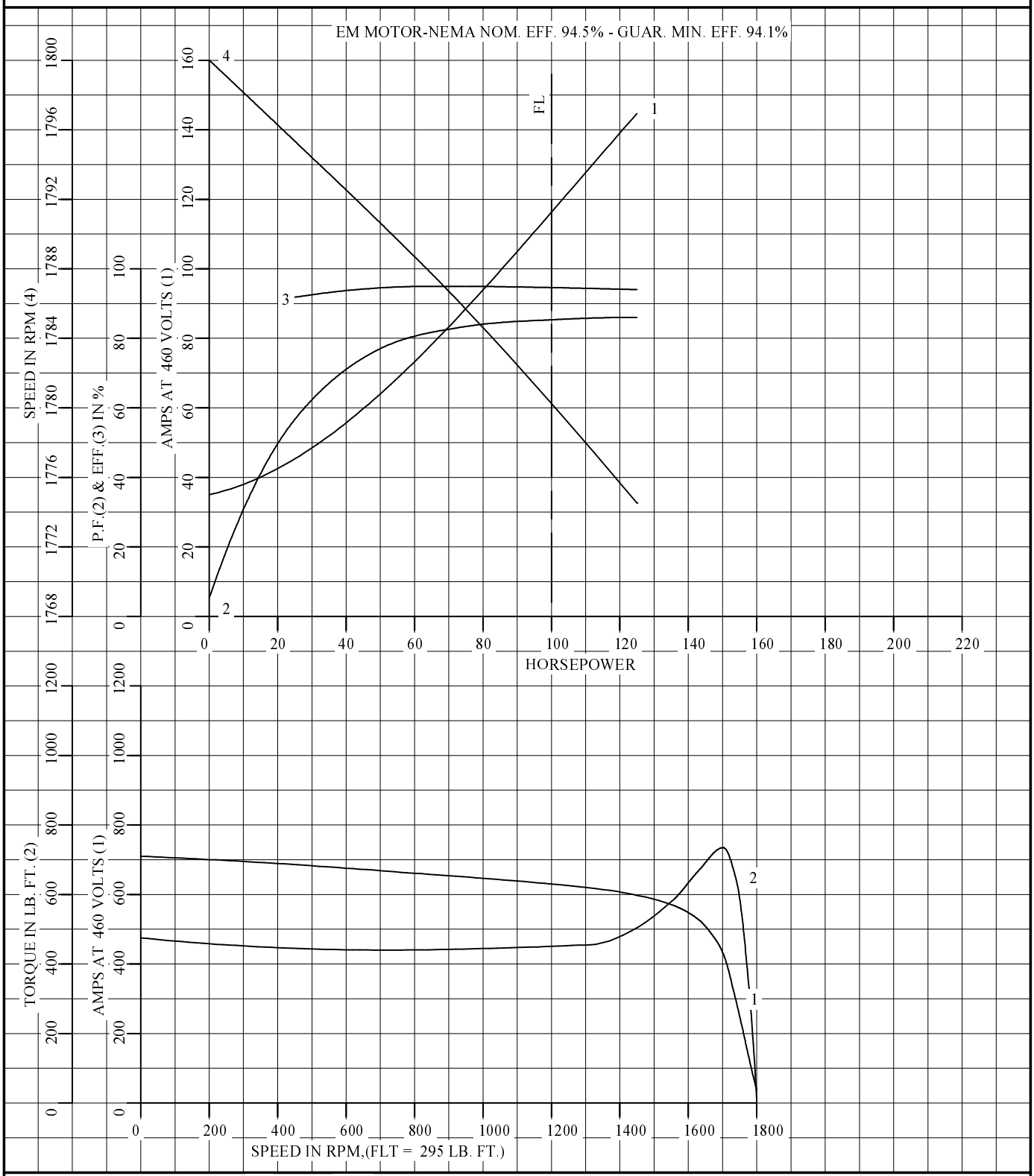
A-C MOTOR PERFORMANCE DATA

A40WG0482-R001
ISSUE DATE 12/15/10

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET M4400T - 100HP, 1775RPM, 3PH, 60HZ, 405T, 1480M, TEFC

FRAME 405T	RPM 1780	S.F. 1.15	ROTOR 418142033SE
HP 100	VOLTS 230/460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
TYPE P	AMPS 232/116	CODE LETTER G	TEST DATE ---
PHASE/HERTZ 3/60	DUTY CONT	ENCLOSURE TEFC	STATOR RES.@ 25 ℃ .0168/.0673
	AMB ℃/INSUL 40/F	E/S 496537	OHMS (BETWEEN LINES)



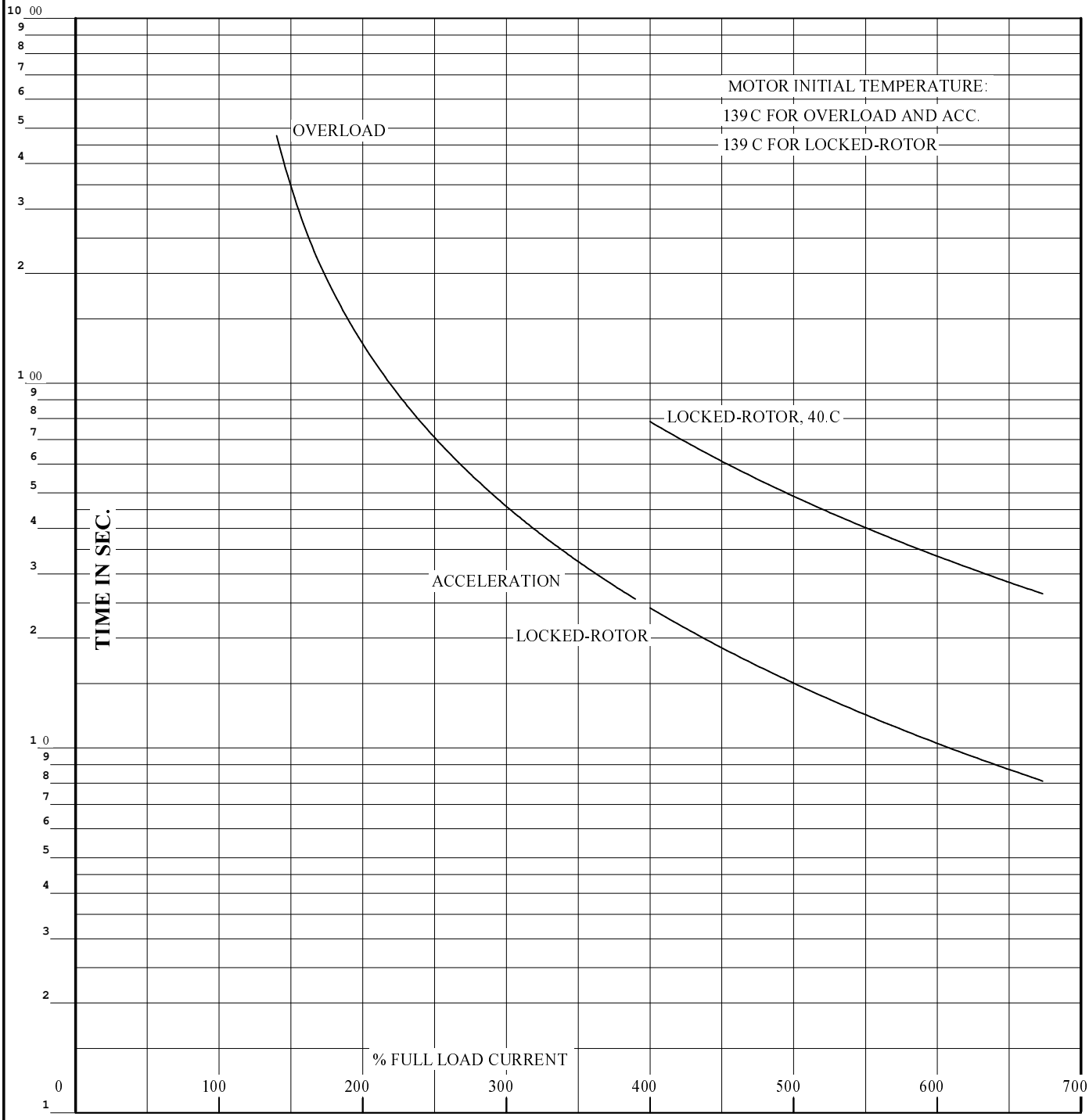
AMPERES SHOWN FOR 460 VOLT CONNECTION, IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE.

BALDOR

DR. BY D. F. DUNN
CK. BY D. M. BYRD
APP. BY D. M. BYRD
DATE 07-30-93

A-C MOTOR PERFORMANCE CURVES A40WG0482-R001 ISSUE DATE 12/15/10

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 ℃.0168/.0673
PHASE/HERTZ 3/60	AMB ℃/INSUL 40/F	E/S 496537	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.**

BALDOR

DR. BY	D. F. DUNN
CK. BY	D. M. BYRD
APP. BY	D. M. BYRD
DATE	07-30-93

A-C MOTOR PERFORMANCE CURVES A40WG0482-R001 ISSUE DATE 12/15/10

611740-001-SH1

DUTY MASTER ALTERNATING CURRENT MOTORS

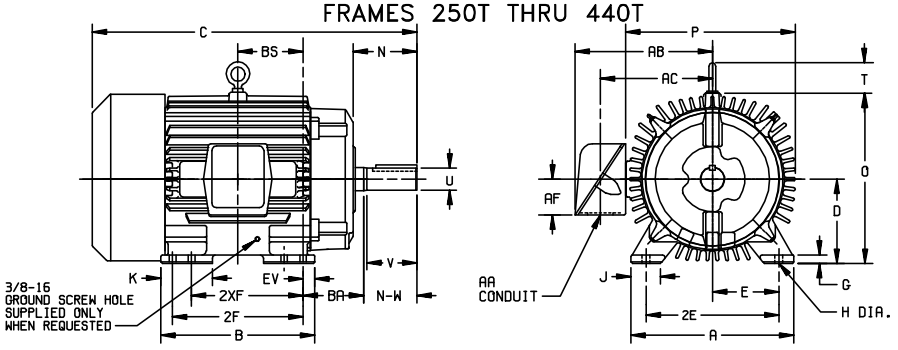
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

MOUNTING: FOOT

FRAMES 250T THRU 440T



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

FRAME	A	D(2)	E	G	H	J	K	O	P	T	STEEL TERMINAL BOX 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-286TS	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-326TS	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-365TS	17.00	9.00	7.00	.88	.69	2.75	3.88	18.50	19.50	2.94	3	18.06	14.00	5.38	5.88	1.38
404T-405TS	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-445TS	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
(1)																

FRAME SIZE	C	BS	B	2F	(4) 2XF	N	SHAFT AND KEY N-W(6)	U(3)	V	SQ.	LGTH.	WEIGHT LBS. (5)
254T	24.56	5.00	12.00	---	8.25	4.12	4.00	1.625	3.75	.375	2.88	305
256T	24.56	5.00	12.00	10.00	---	4.12	4.00	1.625	3.75	.375	2.88	315
284T	27.44	5.50	13.00	---	9.50	5.00	4.62	1.875	4.38	.500	3.25	435
284TS	26.06	5.50	13.00	---	9.50	3.62	3.25	1.625	3.00	.375	1.88	435
286T	27.44	5.50	13.00	11.00	---	5.00	4.62	1.875	4.38	.500	3.25	450
286TS	26.06	5.50	13.00	11.00	---	3.62	3.25	1.625	3.00	.375	1.88	450
324T	30.44	6.00	14.75	---	10.50	5.62	5.25	2.125	5.00	.500	3.88	540
324TS	28.94	6.00	14.75	---	10.50	4.12	3.75	1.875	3.50	.500	2.00	540
326T	30.44	6.00	14.75	12.00	---	5.62	5.25	2.125	5.00	.500	3.88	580
326TS	28.94	6.00	14.75	12.00	---	4.12	3.75	1.875	3.50	.500	2.00	580
364T	33.44	6.12	15.00	---	11.25	6.25	5.88	2.375	5.62	.625	4.25	800
364TS	31.31	6.12	15.00	---	11.25	4.12	3.75	1.875	3.50	.500	2.00	794
365T	33.44	6.12	15.00	12.25	---	6.25	5.88	2.375	5.62	.625	4.25	840
365TS	31.31	6.12	15.00	12.25	---	4.12	3.75	1.875	3.50	.500	2.00	834
404T	38.31	6.88	16.00	---	12.25	7.50	7.25	2.875	7.00	.750	5.62	1120
404TS	35.31	6.88	16.00	---	12.25	4.50	4.25	2.125	4.00	.500	2.75	1111
405T	38.31	6.88	16.00	13.75	---	7.50	7.25	2.875	7.00	.750	5.62	1160
405TS	35.31	6.88	16.00	13.75	---	4.50	4.25	2.125	4.00	.500	2.75	1151
444T	44.62	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	.875	6.88	1540
444TS	40.88	8.25	19.00	---	14.50	5.19	4.75	2.375	4.50	.625	3.00	1524
445T	44.62	8.25	19.00	16.50	---	8.94	8.50	3.375	8.25	.875	6.88	1730
445TS	40.88	8.25	19.00	16.50	---	5.19	4.75	2.375	4.50	.625	3.00	1714
(1)												

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "D" VARIES — 250T – 320T +.00, -.03. / 360T – 440T +.00, -.06.

(3) "U" VARIES — UP TO 1.625 DIA. +.0000, -.0005 / 1.625 AND LARGER +.000, -.001.

(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.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2,W-1, W-4,W-5,W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .002 T.I.R. UP TO AND INCLUDING 1.625 DIA. AND .003 T.I.R. 1.625 DIA. TO 5 INCH DIA.

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.

Baldor • Dodge • Reliance

DIM SHEET 250T THRU 440T

SH 1 of 1

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

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET M4400T - 100HP, 1775RPM, 3PH, 60HZ, 405T, 1480M, TEFC

P40G4665: 100HP,1780RPM,3PH,60HZ,405T,A40054M,TEFC

DUTY MASTER ALTERNATING CURRENT MOTORS

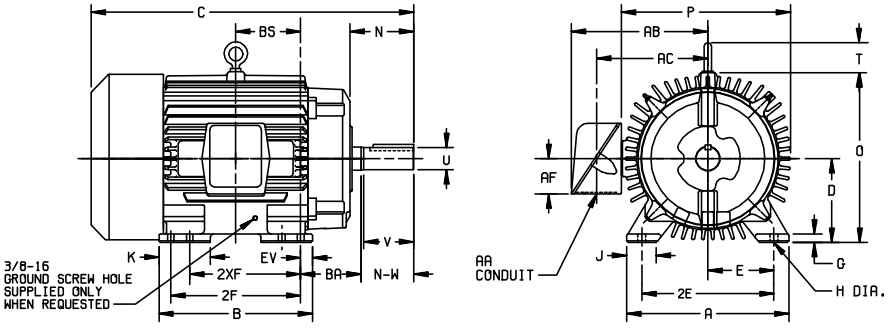
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED

COOLING: FAN COOLED

MOUNTING: FOOT

FRAMES 250T THRU 440T



DIMENSIONS ARE IN MILLIMETERS; SEE SHEET 1 FOR DIMENSIONS IN INCHES

FRAME	A	D(2)	E	G	H	J	K	O	P	T	STEEL TERMINAL BOX AA(7)	AB	AC	AF	BA	EV
254T-256T	317.5	158.8	127.0	19.0	14.2	63.5	--	336.5	336.5	62.0	1-1/4	273.0	222.3	63.5	108.0	25.4
284T-286TS	349.2	177.8	139.7	19.0	14.2	63.5	--	374.6	378.0	62.0	1-1/2	323.8	254.0	81.0	120.7	25.4
324T-326TS	393.7	203.2	158.8	22.4	17.5	69.9	114.3	423.9	431.8	62.0	2	385.8	290.6	108.0	133.3	35.1
364T-365TS	431.8	228.6	177.8	22.4	17.5	69.9	98.6	469.9	495.3	74.7	3	458.7	355.6	136.7	149.4	35.1
404T-405TS	482.6	254.0	203.2	28.4	20.6	82.5	117.3	541.3	571.5	74.7	3	490.5	387.3	136.7	168.1	28.7
444T-445TS	533.4	279.4	228.6	28.4	20.6	82.5	133.3	593.9	641.3	82.5	3	593.9	460.2	165.1	190.5	31.7
(1)																

FRAME SIZE	C	BS	B	2F	(4) 2XF	N	SHAFT AND KEY N-W(6)	U(3)	V	SQ.	LGTH.	WEIGHT KGS. (5)
254T	623.8	127.0	304.8	---	209.6	104.6	101.6	41.27	95.3	9.52	73.2	138
256T	623.8	127.0	304.8	254.0	---	104.6	101.6	41.27	95.3	9.52	73.2	142
284T	697.0	139.7	330.2	---	241.3	127.0	117.3	47.63	111.3	12.70	82.5	197
284TS	661.9	139.7	330.2	---	241.3	91.9	82.5	41.27	76.2	9.52	47.8	197
286T	697.0	139.7	330.2	279.4	---	127.0	117.3	47.63	111.3	12.70	82.5	204
286TS	661.9	139.7	330.2	279.4	---	91.9	82.5	41.27	76.2	9.52	47.8	204
324T	773.2	152.4	374.6	---	266.7	142.7	133.3	53.97	127.0	12.70	98.6	244
324TS	735.1	152.4	374.6	---	266.7	104.6	95.3	47.63	88.9	12.70	50.8	244
326T	773.2	152.4	374.6	304.8	---	142.7	133.3	53.97	127.0	12.70	98.6	263
326TS	735.1	152.4	374.6	304.8	---	104.6	95.3	47.63	88.9	12.70	50.8	263
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	15.88	108.0	362
364TS	795.3	155.4	381.0	---	285.7	104.6	95.3	47.63	88.9	12.70	50.8	360
365T	849.4	155.4	381.0	311.1	---	158.8	149.4	60.33	142.7	15.88	108.0	381
365TS	795.3	155.4	381.0	311.1	---	104.6	95.3	47.63	88.9	12.70	50.8	378
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02	177.8	19.05	142.7	508
404TS	896.9	174.8	406.4	---	311.1	114.3	108.0	53.97	101.6	12.70	69.9	503
405T	973.1	174.8	406.4	349.2	---	190.5	184.1	73.02	177.8	19.05	142.7	526
405TS	896.9	174.8	406.4	349.2	---	114.3	108.0	53.97	101.6	12.70	69.9	522
444T	1133.3	209.6	482.6	---	368.3	227.1	215.9	85.72	209.6	22.22	174.8	698
444TS	1038.4	209.6	482.6	---	368.3	131.8	120.7	60.33	114.3	15.88	76.2	691
445T	1133.3	209.6	482.6	419.1	---	227.1	215.9	85.72	209.6	22.22	174.8	784
445TS	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33	114.3	15.88	76.2	777
(1)												

(1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.

(2) "D" VARIES — 250T – 320T +.0, -.8. / 360T – 440T +.0, -1.5.

(3) "U" VARIES — UP TO 41.27 DIA. +.000, -.013 / 41.27 AND LARGER +.00, -.03

(4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING.

(5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.

(6) "N-W" VARIES +.0, -6.4.

(7) DIMENSIONS ARE IN INCHES.

CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2,W-1, W-4,W-5,W-7, OR C-1 MOUNTING IS SPECIFIED.

IF MOUNTING CLEARANCE DETAILS ARE REQUIRED, CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .05 T.I.R. UP TO AND INCLUDING 41.27 DIA. AND .08 T.I.R. 41.27 DIA. TO 127.00 MILL. DIA.

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.

Baldor • Dodge • Reliance

DIM SHEET 250T THRU 440T METRIC

SH 1 of 1

REV. DESC: UPDATE TITLE

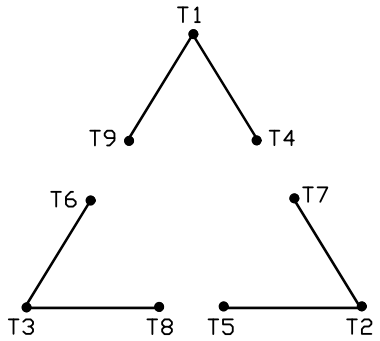
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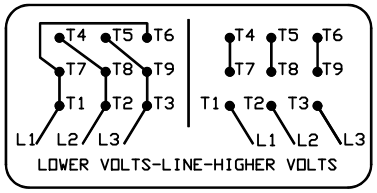
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416820-002

A-C MOTOR
CONNECTION DIAGRAM
STANDARD 9 LEAD DELTA-CONNECTED





(N. P. 1575-B)

416820-002

REV. DESC: ADJUST TEXT DARKNESS		
REV. LTR: B	VERSION: 02	TDR: 000001285318
FILE: \RAG\00022\453	REVISED: 09:36:26 09/24/2026	BY: USJOSUL
MTL: –		

ABB

CONN DIAG – STANDARD 9 LEAD, DELTA-CONNECTED

SH1 of 1