

BALDOR® • RELIANCE

Product Information Packet

EM4402T-4

100HP/3565RPM/3PHASE/TEFC/NEMA405TS

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Part Detail							
Revision:	G	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	A40060M	Elec. Spec:	A40WG1270	CD Diagram:	
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:		Layout:	
Frame:	405TS	Mounting:	F1	Poles:	02	Created Date:	12-02-2010
Base:		Rotation:	R	Insulation:	F	Eff. Date:	06-20-2012
Leads:	6#4	Literature:		Elec. Diagram:		Replaced By:	

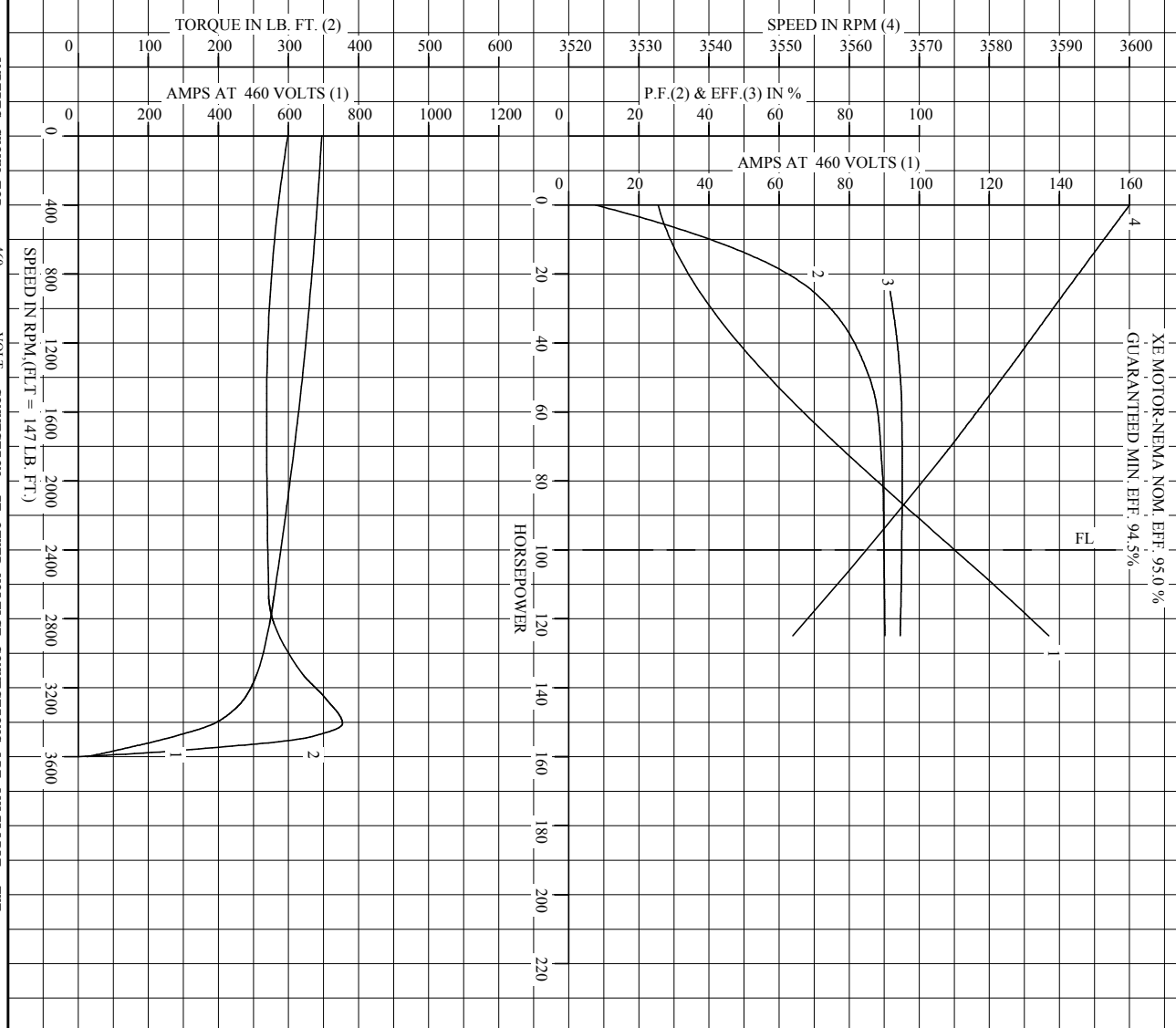
Nameplate NP2383L									
CAT.NO.	EM4402T-4	SPEC NO.	P40G4566						
HP	100	AMPS	110	VOLTS	460	DESIGN	B		
FRAME	405TS	RPM	3565	HZ	60	AMB	40	SF	1.15
DRIVE END BEARING	65BC03J30X	PHASE	3	DUTY	CONT	INSUL.CLASS	F		
OPP D.E. BEARING	65BC03J30X	TYPE	P	ENCL	TEFC	CODE	F		
SER.NO.		POWER FACTOR	90	NEMA-NOM-EFFICIENCY	95.0				
		MAX CORR KVAR	10.0	GUARANTEED EFFICIENCY	94.5				
NEMA NOM/CSA QUOTED EFF									
		MOTOR WEIGHT							

Parts List		
Part Number	Description	Quantity
SA212553	SA P40G4566	1.000 EA
RA199782	RA P40G4566	1.000 EA
613-6PU	N/P (RELEASE QTY 10,000)	1.000 EA
NP2383L	SUPER-E ,SS, CC, CSA-C US, CSA EEV	1.000 EA
000692000VD	N/P (REL QTY 4000)	1.000 EA
421948044	LABEL, MYLAR	1.000 EA
004824015A	GREASE POLYREX EM	0.540 LB
032018010CK	HHCS 3/8-16X1-1/4 PLTD.	4.000 EA
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 EA
034000014AB	WSH ID.406 OD.812 TH.065	4.000 EA
034180012DA	KEY 1X4X1/4X1-1/2 L	1.000 EA
034530064AB	P/NIP 1/8X8" GALV.	1.000 EA
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
035000001G	GITS GRS CUP,ODE	1.000 EA
083198006A	FANCV-PLASTIC400 KB@45	1.000 EA
089413082B	BRKT 400 089413081WCC KB	1.000 EA
410700004F	WSHR	1.000 EA
415072001B	CLAMP	1.000 EA
415096002A	CPLG 1/8 HEX TYPE	1.000 EA
702675001D	FAN 250-440	1.000 EA
032018016EK	HHCS 5/8-11X2 PLATED	4.000 EA
032018028CK	HHCS 3/8-16X3-1/2 PLTD.	3.000 EA

Parts List (continued)		
Part Number	Description	Quantity
034600001AA	BUSH 1/4TO1/8 BLACK	1.000 EA
034690001AB	SQHDPLG, COND	1.000 EA
035000001G	GITS GRS CUP,ODE	1.000 EA
089413082B	BRKT 400 089413081WCC KB	1.000 EA
032018005AK	HHCS 1/4-20X5/8 PLATED	4.000 EA
032018008CK	HHCS 3/8-16X1L PLATED	4.000 EA
033512004LB	HHTTS 1/4-20X1/2 PLTD.	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
035000001A	ALFTG 1/8" 1610-BL	1.000 EA
043292000AJ	GASK 320-400	1.000 EA
077176000L	C/BOX, PAINTED 360-400	1.000 EA
077176001A	CBOXC, PAINTED 360-400	1.000 EA
402731001A	GASK 360-440	1.000 EA
406099000A	PLUG - FAN COVER 320-440	1.000 EA
415000003D	T/LUG 897-777 KPA25/G16	1.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
MG1000Y03	WILKO 689.710 GOLD PAINT SUPER E	0.250 GA
033775004EA	DRSCR #6-1/4 304 S.S.	2.000 EA
418150003A	GREASE FITTING CAP	1.000 EA
034180022GA	KEY 1/2X1/2X2-3/4 L	1.000 EA
LB1345	LABEL, SUPER E, 1.75 X 1.75	1.000 EA
PK5004A02	WOOD BASE 40X32 STACK 2X4 RUNNER	1.000 EA

Accessories		
Part Number	Description	Multiplier
089412083B	C-FACE BRKT 400 089416083WCB	P1
089412075B	D-FLANGE BRKT 400 089416085WCA	P1

REL. S.O. _____ RPM 3565 S.F. 1.15 ROTOR 418142005PE
 FRAME 405T VOLTS 460 NEMA DESIGN B TEST S.O. TYPICAL DATA
 HP 100 AMPS 110 CODE LETTER F TEST DATE ---
 TYPE P DUTY CONT ENCLOSURE FCXE STATOR RES. @ 25 °C .0526
 PHASE/HERTZ 3/60 AMB °C/INSUL 40/F E/S 596954 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
 A MEMBER OF THE ABB GROUP

DR. BY J.HARRISON
 CK. BY W.L.SMITH
 App. BY W.L.SMITH
 DATE 06/13/07

A-C MOTOR PERFORMANCE CURVES
 A40W/G1270-R001
 ISSUE DATE 03/16/11

Printed on 3/16/11 7:48 @ ragsun


REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	405T	100	P	3/60	3565	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
110	CONT	40/F	1.15	B	F	FCXE
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (OHMS (BETWEEN LINES))		
596954	418142005PE	---	---	.0526		

PERFORMANCE						
LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %	
NO LOAD	0	25.6	3600	7.57	0	
1/4	25.0	36.7	3591	69.7	91.7	
2/4	50.0	57.7	3582	85.8	94.6	
3/4	75.1	82.7	3572	89.3	95.1	
4/4	100	110	3563	89.9	95.0	
5/4	125	137	3552	90.2	94.6	

SPEED TORQUE						
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES		
LOCKED ROTOR	0	203	299	695		
PULL UP	1545	182	269	632		
BREAKDOWN	3408	256	377	387		
FULL LOAD	3563	100	147	110		

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

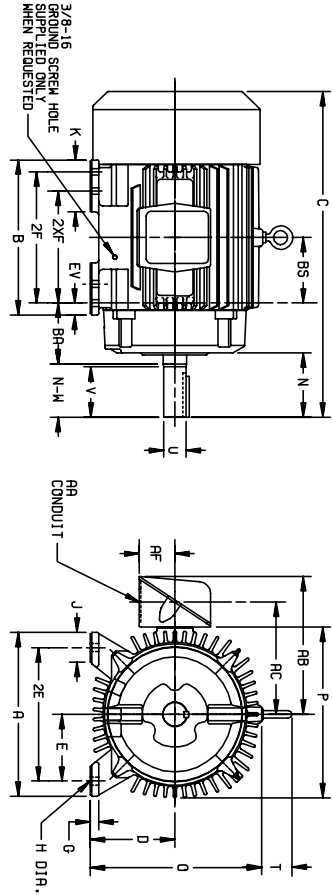
REMARKS: TYPICAL DATA
 XE MOTOR-NEMA NOM. EFF. 95.0 %
 GUARANTEED MIN. EFF. 94.5 %

 A MEMBER OF THE ABB GROUP	DR. BY J.J. HARRISON CK. BY W.I. SMITH APP. BY W.I. SMITH DATE 06/13/07	A-C MOTOR PERFORMANCE DATA A40WG1270-R001 ISSUE DATE 03/16/11
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611740-001-SH2

DUTY MASTER ALTERNATING CURRENT MOTORS
SQUIRREL-CAGE INDUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT
FRAMES 250T THRU 440T
COOLING: FAN COOLED



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

FRAME	A	D/2	E	G	H	J	K	O	P	T	AA(T)	AB	AC	AF	BA	EV
254T-261T	317.5	158.8	127.0	19.0	14.2	63.5	---	336.5	336.5	62.0	-1/4	273.0	222.3	63.5	108.0	25.4
264T-286TS	349.2	177.8	139.7	19.0	14.2	63.5	---	374.6	376.0	62.0	-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	492.3	74.7	3	456.7	359.6	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	188.1	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

FRAME SIZE	C	BS	B	ZF	ZXF	N	SHAFT AND KEY				WGTH (KGS. (5))	
							N-(W(6))	U(3)	V	SG		LGTH
254T	623.8	127.0	304.8	---	209.6	104.6	101.6	41.27	95.3	9.52	73.2	138
264T	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	263
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	283
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	311.1	---	104.6	95.3	47.63	88.9	12.70	50.8	360
365T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33	142.7	15.88	108.0	378
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	503
404TS	973.1	174.8	406.4	349.2	---	114.3	108.0	53.97	101.6	12.70	69.9	526
405T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02	177.8	19.05	142.7	526
405TS	898.9	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	419.1	---	227.1	215.9	85.72	209.6	22.22	174.8	691
445T	1133.3	209.6	482.6	---	368.3	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) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE. CONDUIT BOX LOCATED ON OPPOSITE SIDE WHEN F-2-W-1, W-4-W-5-W-7, OR C-1 MOUNTING IS SPECIFIED.
- (2) "D" VARIES UP TO 41.27 DIA. +0.0, -0.8.
- (3) "U" VARIES UP TO 41.27 DIA. +0.00, -0.13
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DUAL MOUNTING. 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.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +0.0, -6.4.
- (7) DIMENSIONS ARE IN INCHES.

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

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

REV. DESC: UPDATE TITLE	VERSION: 02	TDR: 000000498266
REV. LTR: B		REVISED: 14: 03: 30 04/28/2009
FILE: \RAG\00000\168		BY: RAGEC
MTL: -		

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DIM SHEET 250T THRU 440T METRIC

SH 1 of 1

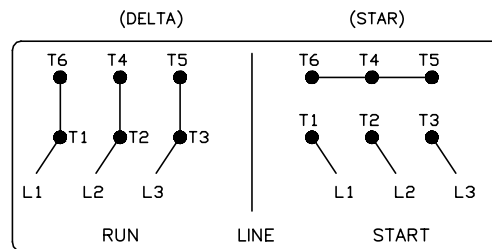
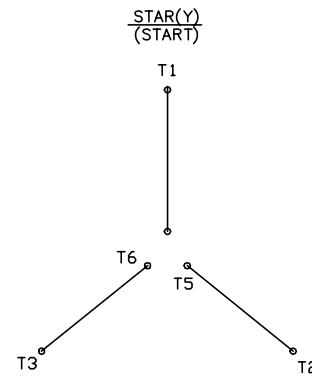
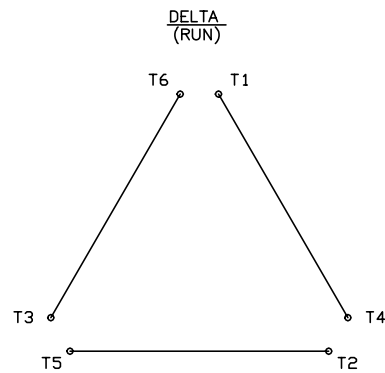
611740-001-SH2

416820-008

A-C MOTOR CONNECTION DIAGRAM

STANDARD 6 LEAD

Y START - DELTA RUN



< N. P. 1767-DC >

416820-008

REV. DESC: CORRECT VIEW ON DRAWING		
REV. LTR: C	VERSION: 03	TDR: 000000579787
FILE: \RAG\00001\808	REVISED: 01:18:33 03/29/2011	
MTL: -	BY: RAGRA	

BALDOR

CONNECT DIAGRAM STD 6 LEAD Y START DELTA RUN

SH 1 of 1