

BALDOR® • RELIANCE

Product Information Packet

CTM1762T

20HP,1770RPM,3PH,60HZ,256T,TEFC,FOOT,

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Part Detail			
Model Number:	CTM1762T	Environment:	Harsh / Mill & Chemical
Voltage:	460/ 460	HP:	20/5
RPM:	1770/885	Efficiency:	Premium (XE)
Phase:	3	Frequency:	60
Inverter Duty:	*	Enclosure:	TEFC
Frame Group:	250	Frame Size:	256T
Features:	Cooling Tower Duty	Mounting:	Foot Mounted
Service Factor:	1.15	Enclosure Group:	TEFC
Weight:	345	Price Symbol:	L1
Speed Range:		Insulation Class:	F
Nema Design:		Encl. Enhancement:	P25G6770
Catalog Page:	M-41,B	Dimension Sheet:	611740-501
Connection Diagram:	416820-196	Electric Design:	E03212-B-H001
Single HP:	20	Get Notes:	Cooling Tower Duty
Revision:		Instruction Manual:	MN408
Application:	2 Speed 1Wdg. Variable Torque	Epact:	Y
Scaled Drawing:	A83551	Obsolete:	N
Last Data Source:	RGG2,MADD	Bearing Type:	
Electrical Type:	PM	Mounting Pos.:	
Ambient:	40	Duty:	CONT
Amps:	24.4/9.30	Nominal Eff.:	91.0
Kva Code:	H	Power Factor:	
Poles:	04	Literature:	

611740-501-SHT1

DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
CAST IRON CONSTRUCTION

ENCLOSURE: TOTALLY ENCLOSED
MOUNTING: FOOT

COOLING: FAN COOLED

FRAMES 250T THRU 440T

3/8-16
GROUND
SCREW
HOLE
(7)
NPT
(7)
K
2XF
B
E
V
BR
N-M
U
N
C
BS
LX
A
D(2)
E
G
H
J
K
O
P
T
CAST IRON TERMINAL BOX
NPT
RF
J
U
ZC
R
H DIA.
D
O
T
PX
RC
AB
F
P
N

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

FRAME	A	D(2)	E	G	H	J	K	O	P	T	CAST IRON TERMINAL BOX	(7) AUX. CONDUIT BOX	BA	EV					
254T-256T	12.50	6.25	5.00	.75	.56	2.50	---	13.25	13.25	2.44	1-1/4	10.61	8.81	2.50	3/4	6.31	12.12	4.25	1.00
256T-258T	13.25	7.00	5.50	.75	.56	2.50	---	14.75	14.88	2.44	1-1/2	12.62	10.19	3.00	3/4	6.98	10.50	4.25	1.00
258T-260T	15.50	8.00	6.25	.88	.69	2.25	4.50	16.69	17.00	2.44	2	15.44	11.69	3.62	3/4	8.00	10.50	5.25	1.38
260T-262T	17.00	9.00	7.00	.88	.69	2.25	3.88	18.50	19.50	2.94	3	18.00	13.81	4.12	3/4	8.38	11.62	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	19.25	15.06	4.12	3/4	9.62	14.44	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	22.19	17.44	6.00	3/4	11.12	15.25	7.50	1.25

FRAME	BS	B	2F	(4)	N	N-W(6)	U(3)	V	SQ.	1GTH.	WGT.	
254T	24.56	5.00	12.00	---	6.25	4.12	4.00	1.625	3.75	2.68	3.55	
256T	25.25	5.00	12.00	---	6.25	4.12	4.00	1.625	3.75	2.68	3.55	
258T	27.44	5.50	13.00	---	6.00	4.62	3.25	1.875	3.00	3.75	4.45	
260T	28.06	5.50	13.00	---	9.50	3.62	3.25	1.625	3.00	3.75	1.88	4.75
262T	27.44	5.50	13.00	---	5.00	4.62	1.875	4.38	5.00	3.25	4.90	
268T	28.06	5.50	13.00	---	3.62	3.25	1.625	3.00	3.75	1.88	4.90	
324T	30.44	6.00	14.75	---	10.50	5.62	5.25	2.125	5.00	5.00	3.88	5.90
324T	28.94	6.00	14.75	---	10.50	4.12	3.75	1.875	3.50	5.00	2.00	5.90
326T	30.44	6.00	14.75	---	5.62	5.25	2.125	5.00	5.00	3.88	6.30	
326T	28.94	6.00	14.75	---	4.12	3.75	1.875	3.50	5.00	2.00	6.30	
364T	33.44	6.12	15.00	---	11.25	6.25	5.88	2.375	5.62	6.25	4.25	8.85
364T	31.34	6.12	15.00	---	4.12	3.75	1.875	3.50	5.00	2.00	8.85	
366T	31.34	6.12	15.00	---	4.12	3.75	1.875	3.50	5.00	2.00	8.85	
366T	31.31	6.12	15.00	---	12.25	7.50	2.875	7.00	7.50	5.62	12.20	
404T	38.31	6.88	16.00	---	12.25	7.50	2.875	7.00	7.50	5.62	12.20	
404T	35.31	6.88	16.00	---	12.25	4.50	4.25	2.125	4.00	5.00	2.75	12.11
405T	38.31	6.88	16.00	---	7.50	7.25	2.875	7.00	7.50	5.62	12.60	
405T	35.31	6.88	16.00	---	4.50	8.94	8.50	3.375	8.25	8.75	6.88	16.70
444T	44.62	8.25	19.00	---	14.50	8.94	8.50	3.375	8.25	8.75	6.88	16.70
444T	40.88	8.25	19.00	---	8.94	8.50	3.375	8.25	8.75	6.88	16.60	
445T	44.62	8.25	19.00	---	8.94	8.50	3.375	8.25	8.75	6.88	16.60	
445T	40.88	8.25	19.00	---	8.94	8.50	3.375	8.25	8.75	6.88	16.44	

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

(2) "O" VARIES
250T - 320T +.00, -.03
360T - 440T +.00, -.06
HP TO 1.625 DIA. +.0000, -.0005

(3) "U" VARIES
+.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.

(7) AUXILIARY CONDUIT BOX SUPPLIED WHEN SPECIFIED
CONDUIT BOXES LOCATED ON OPPOSITE SIDE WHEN F-2W-1,
W-4W-5W-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 TIR. UP TO
AND INCLUDING 1.825 DIA. AND .003 TIR. 1.625 DIA.
TO 5 INCH DIA.

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

1HS-105-104L119

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

REV. DESC: REMOVING TITLEBLOCK
REV. LTR: A VERSION: 01 TDR: 000000448517
FILE: \RAG\00004\525 REVISED: 14:06:59 11/07/2007 BY: CONBPM
MTL: -

BALDOR • DODGE • RELIANCE

DIM SHT 250T-440T TEFC FT MTG STD T & TS SGL EXT XT

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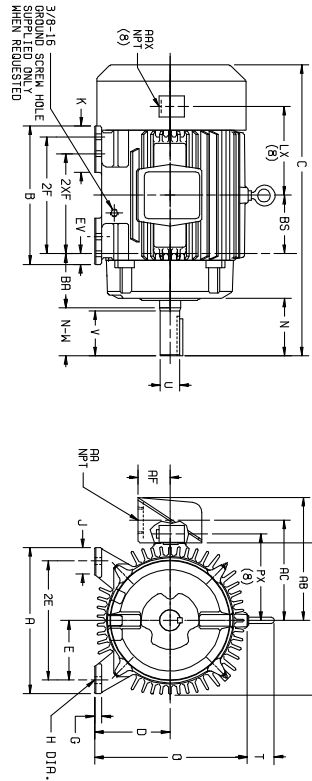
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DUTY MASTER ALTERNATING CURRENT MOTORS

SQUIRREL-CAGE INDUCTION
ENCLOSURE: TOTALLY ENCLOSED
CAST IRON CONSTRUCTION
MOUNTING: FOOT
COOLING: FAN COOLED

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	AA(7)	AB	AC	AF	MAX(L)	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	274.6	223.8	63.5	3/4	160.3	236.5
284T-286T	349.2	177.8	139.7	19.0	14.2	63.5	---	374.6	374.6	62.0	1-1/2	320.5	258.8	76.2	3/4	174.8	266.7
324T-326T	393.7	203.2	158.8	22.4	17.5	69.9	14.3	423.9	431.8	62.0	2	392.2	296.9	91.9	3/4	203.2	286.7
364T-366T	431.8	228.6	177.8	22.4	17.5	69.9	14.3	469.3	477.2	62.0	2	437.2	350.8	104.6	3/4	212.9	295.1
404T-406T	482.6	254.0	203.2	28.4	20.6	82.5	17.3	541.3	571.5	74.7	3	488.9	382.5	104.6	3/4	244.3	366.8
444T-446T	533.4	279.4	228.6	28.4	20.6	82.5	17.3	593.9	641.3	82.5	3	563.6	443.0	152.4	3/4	282.4	387.3

FRAME	SIZE	C	BS	B	2F	(4)	N	SHAFT AND KEY	WGT
254T	623.8	127.0	304.8	---	209.6	104.6	101.6	41.27 95.3 9.52 73.2 151	151
284T	623.8	127.0	304.8	254.0	---	104.6	101.6	41.27 95.3 9.52 73.2 151	151
284T	697.0	139.7	330.2	---	241.3	127.0	117.3	47.63 111.3 12.70 82.5 215	215
284T	661.9	139.7	330.2	---	241.3	127.0	117.3	47.63 111.3 12.70 82.5 215	215
284T	697.0	139.7	330.2	279.4	---	127.0	117.3	47.63 111.3 12.70 82.5 215	215
324T	723.2	152.4	374.6	---	286.7	142.7	133.3	53.97 127.0 12.70 98.6 267	267
324T	723.2	152.4	374.6	---	286.7	142.7	133.3	53.97 127.0 12.70 98.6 267	267
324T	723.2	152.4	374.6	304.8	---	104.6	101.6	41.27 95.3 9.52 73.2 151	151
324T	723.2	152.4	374.6	---	286.7	142.7	133.3	53.97 127.0 12.70 98.6 267	267
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33 142.7 15.88 108.0 392	392
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33 142.7 15.88 108.0 392	392
364T	849.4	155.4	381.0	311.1	---	104.6	101.6	41.27 95.3 9.52 73.2 151	151
364T	849.4	155.4	381.0	---	285.7	158.8	149.4	60.33 142.7 15.88 108.0 392	392
364T	849.4	155.4	381.0	311.1	---	104.6	101.6	41.27 95.3 9.52 73.2 151	151
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02 177.8 19.05 142.7 553	553
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02 177.8 19.05 142.7 553	553
404T	973.1	174.8	406.4	349.2	---	114.3	108.0	43.02 101.6 12.70 98.6 267	267
404T	973.1	174.8	406.4	---	311.1	190.5	184.1	73.02 177.8 19.05 142.7 553	553
444T	1038.4	209.6	482.6	---	368.3	227.1	215.9	85.22 209.6 22.22 174.6 843	843
444T	1038.4	209.6	482.6	---	368.3	227.1	215.9	85.22 209.6 22.22 174.6 843	843
444T	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33 114.3 15.88 76.2 836	836

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "D" VARIES 250T - 320T +0.0, -0.8.
360T - 440T +0.0, -1.5.
- (3) "U" VARIES 41.27 AND LARGER +.000, -.013
UP TO 41.27 DIA. +.000, -.013
- (4) ALL FRAMES HAVE EIGHT MOUNTING HOLES FOR DIA. MOUNTING.
- (5) MOTOR WEIGHTS MAY VARY BY 15% DEPENDING UPON RATING.
- (6) "N-W" VARIES +0.0, -6.4.
- (7) DIMENSIONS ARE IN INCHES.
- (8) AUXILIARY CONDUIT BOX SUPPLIED WHEN SPECIFIED.
CONDUIT BOXES 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
250T DIA. 41.27 DIA. AND .08 T.I.R. 41.27 DIA.
TO 127 MILLIDIA.

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

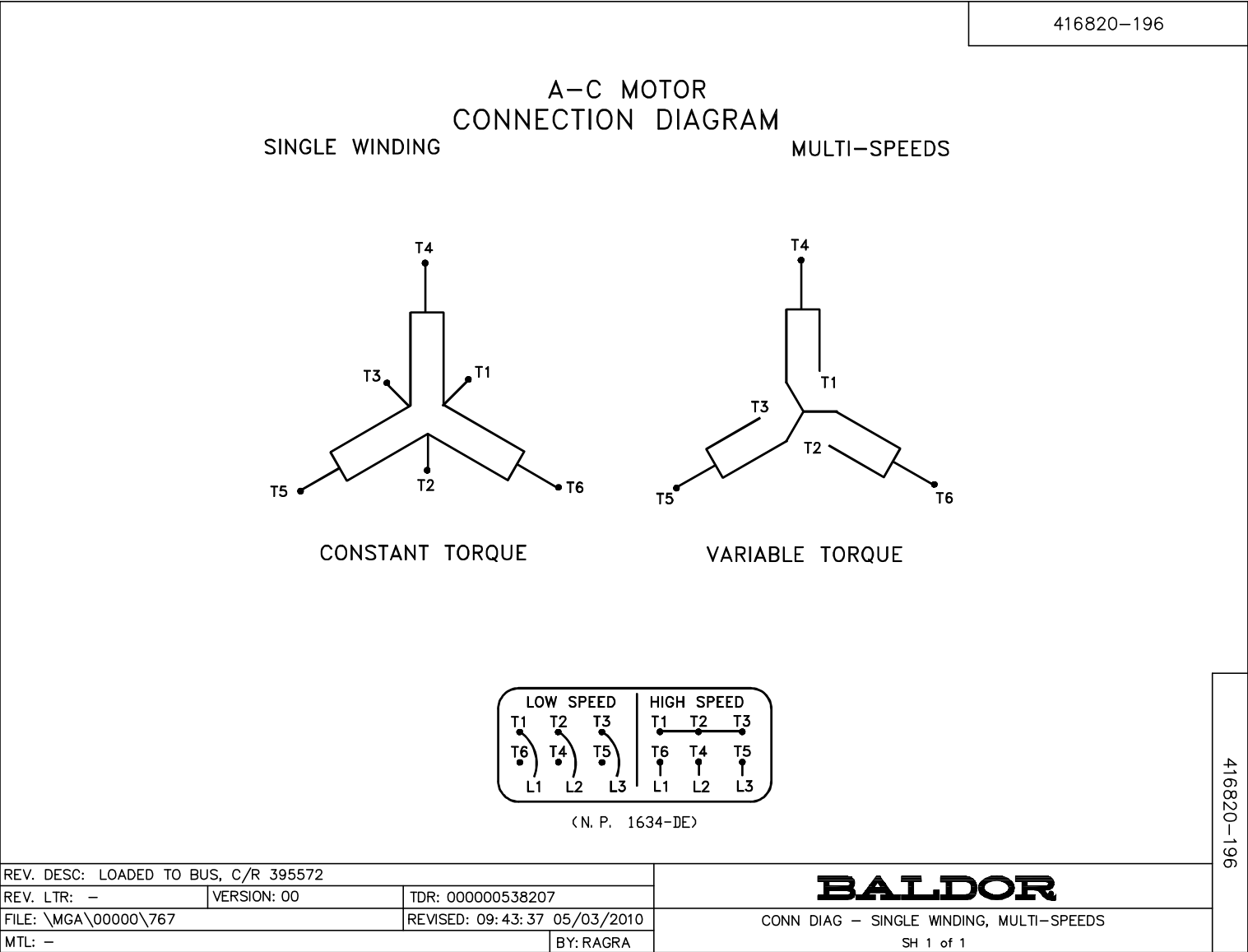
2HS-105-074119

611740-501-SH2

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT MOTOR PERFORMANCE IS SUITABLE IN THE APPLICATION.

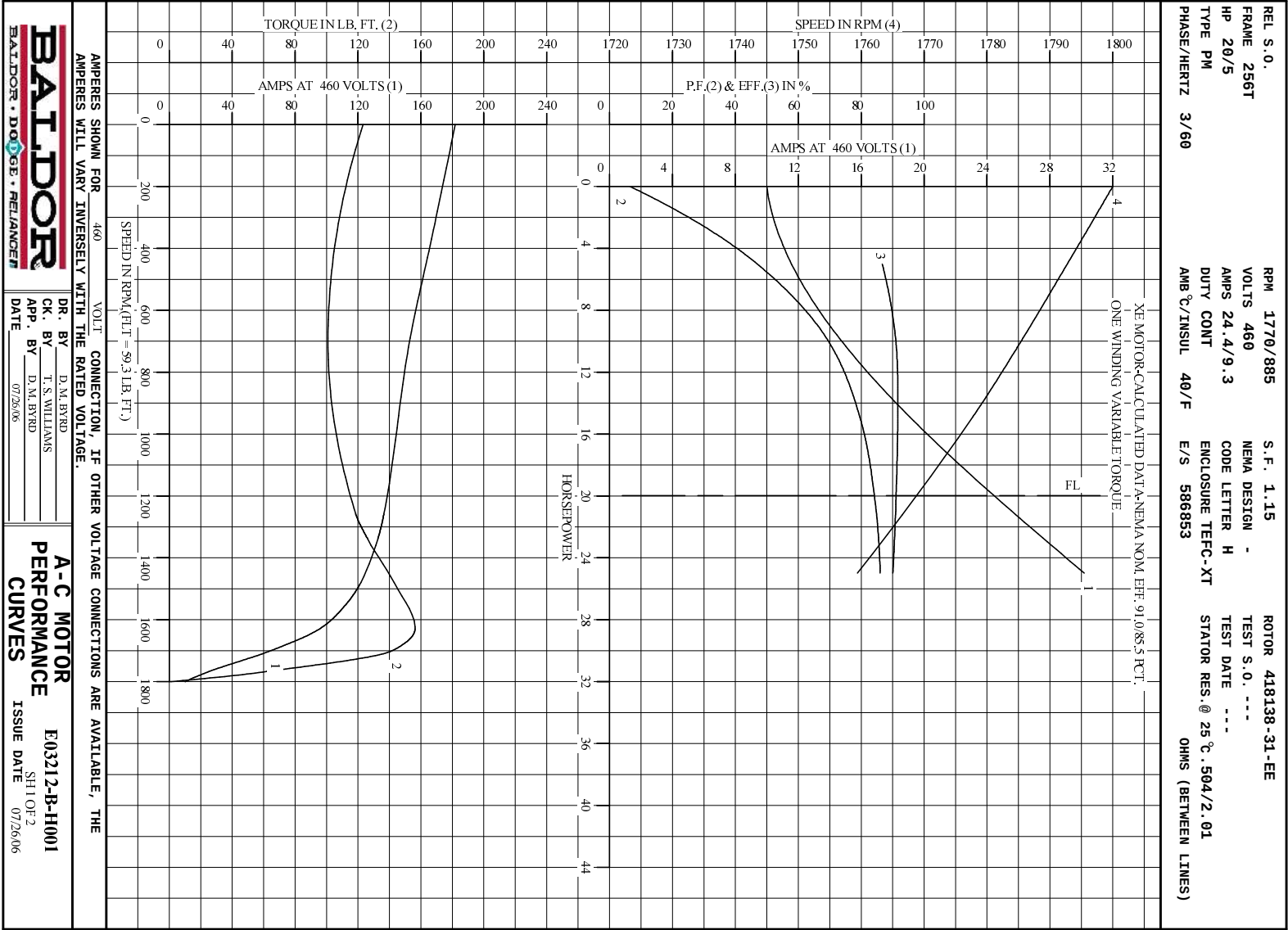
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REV. LTR: A	REVISED: 14:09:46 11/07/2007	BY: CONBPM
FILE: \RAG\00004\526		
MTL: -		

BALDOR • DODGE • RELIANCE
DIM SHT 250T-440T TEFC FT MTG STD T & TS SGL EXT XT



REL. S.O.	FRAME	HP	TYPE	PHASE/ HERTZ	RPM	VOLTS
	256T	20/5	PM	3/60	1770/885	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
24.4/9.3	CONT	40/F	1.15	-	H	TEFC-XT
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES.@25 °C OHMS (BETWEEN LINES)		
586853	418138-31-EE	---	---	.504/2.01		
PERFORMANCE						
LOAD	HP	AMPERES	RPM	% POWER FACTOR	% EFFICIENCY	
NO LOAD	0/ 0	10.0/ 6.6	1800/ 900	6.47/ 5.39	0/ 0	
1/4	5.02/ 1.25	11.5/ 6.8	1793/ 896	47.0/ 22.8	86.7/ 75.6	
2/4	10.0/ 2.50	14.8/ 7.3	1785/ 893	69.6/ 38.3	91.0/ 84.1	
3/4	15.0/ 3.75	19.2/ 8.1	1778/ 888	79.7/ 50.2	91.6/ 86.2	
4/4	20.0/ 5.00	24.4/ 9.3	1769/ 884	84.2/ 58.6	91.1/ 86.3	
5/4	25.0/ 6.25	30.2/ 10.7	1759/ 878	86.0/ 64.0	90.1/ 85.4	
SPEED TORQUE						
		RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES	
LOCKED ROTOR		0/ 0	208/ 142	123/ 42.1	182/ 36.4	
PULL UP		700/ 150	170/ 124	101/ 36.9	153/ 35.1	
BREAKDOWN		1627/ 828	264/ 195	156/ 58.0	96.2/ 22.5	
FULL LOAD		1769/ 884	100/ 100	59.3/ 29.7	24.4/ 9.3	
AMPERES SHOWN FOR 460. VOLT CONNECTION. IF OTHER VOLTAGE CONNECTIONS ARE AVAILABLE, THE AMPERES WILL VARY INVERSELY WITH THE RATED VOLTAGE						
REMARKS: XE MOTOR-CALCULATED DATA-NEMA NOM. EFF. 91.0/85.5 PCT. ONE WINDING VARIABLE TORQUE						
BALDOR		DR. BY D. M. BYRD CK. BY T. S. WILLIAMS APP. BY D. M. BYRD DATE 07/26/06		A-C MOTOR PERFORMANCE E03212-B-H001 DATA ISSUE DATE 07/26/06		

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