



BALDOR® • *RELIANCE*

Product Information Packet

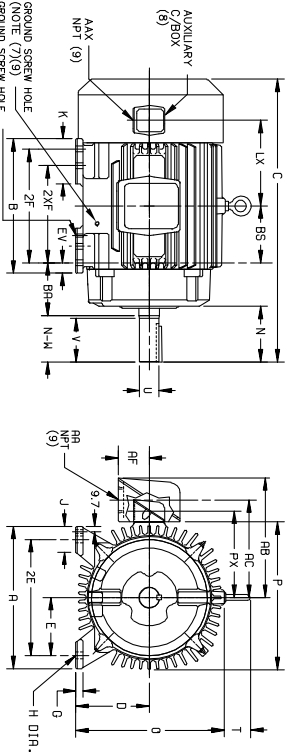
ECP84107T-4

25HP,3550RPM,3PH,60HZ,284TS,TEFC,FOOT

Product Detail			
Model Number:	ECP84107T-4	Environment:	Harsh / Mill & Chemical
Voltage:	460	HP:	25
Rpm:	3550	Efficiency:	Premium (XE)
Phase:	3	Frequency:	60
Inverter Duty:	*	Enclosure:	TEFC
Frame Group:	280	Frame Size:	284TS
Features:	Meets IEEE-841	Mounting:	Foot Mounted
Service Factor:	1.15	Enclosure Group:	TEFC
List Price:	3533.00	Price Symbol:	SD
Speed Range:	2501-3600	Insulation Class:	F
Nema Design:	B	Encl Enhancement:	
Catalog Page:	M-22,B	Dimension Sheet:	611760-570
Connection Diagram:	416820-25	Electric Design:	W00405-B-E002
Single HP:	25	Get Notes:	Meets IEEE-841
Revision:		Instruction Manual:	B-3620
Application:	General Purpose	Epact:	Y
Scaled Drawing:	A84408	Obsolete:	N
Last Data Source:	RAG,MADD	Bearing Type:	
Electrical Type:	P	Mounting Pos:	
Ambient:	40	Duty:	CONT
Amps:	28.1	Nominal Eff:	93.0
Kva Code:	G	Power Factor:	89.0
Poles:	02	Weight:	451

611760-570-SH2

DUTY MASTER ALTERNATING CURRENT MOTORS
 SQUIREL-CAGE INDUCTION MOTOR
 ENCLASURE: TOTALLY ENCLOSED
 MOUNTING: FOOT
 COOLING: FAN COOLED
 FRAMES 250T THRU 440TS
 841-XL WITH STANDARD OVERSIZED CONDUIT BOX



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

FRAME	A	D(2)	E	G	H	J	K	O	P	T	W(6)	X	Y(9)	Z
254T-256T	317.5	156.8	127.0	191	142.6	63.5	---	336.6	336.6	62.0	-1/4	274.6	223.8	63.5
284T-286T	349.3	177.8	139.7	191	142.6	63.5	---	374.7	376.0	62.0	-1/2	320.5	258.8	76.2
324T-326T	393.7	203.2	158.8	224.4	175.5	69.9	114.3	423.9	431.8	62.0	2	392.2	298.9	91.9
364T-366T	431.8	228.6	177.8	224.4	175.5	69.9	114.3	469.9	485.3	74.7	3	457.2	350.8	104.6
404T-406T	482.6	254.0	203.2	228.4	206.6	82.6	117.3	541.3	571.5	74.7	3	489.0	392.5	104.6
444T-446T	533.4	279.4	228.6	228.4	206.6	82.6	133.4	593.9	641.4	82.6	3	563.6	443.0	152.4

FRAME	C	BS	B	ZF	(2)	N	SHAFT AND KEY	SO.	LGTH.	WEIGHT
SIZE					2/F		(3)			(K) LB
254T	623.8	127.0	304.8	---	209.6	104.6	101.6	41.28	95.3	9.53
256T	623.8	127.0	304.8	254.0	---	104.6	101.6	41.28	95.3	73.2
284T	697.0	139.7	330.2	---	241.3	127.0	117.3	47.63	111.3	12.70
286T	697.0	139.7	330.2	241.3	---	91.9	82.6	41.28	76.2	9.53
324T	697.0	139.7	330.2	279.4	---	127.0	117.3	47.63	111.3	12.70
326T	697.0	139.7	330.2	279.4	---	91.9	82.6	41.28	76.2	9.53
364T	773.2	152.4	374.7	---	266.7	142.7	133.4	53.98	127.0	12.70
366T	773.2	152.4	374.7	304.8	---	104.6	95.3	47.63	86.9	12.70
396T	773.2	152.4	374.7	304.8	---	104.6	95.3	47.63	86.9	12.70
398T	773.2	152.4	374.7	304.8	---	104.6	95.3	47.63	86.9	12.70
364T	849.4	155.4	381.0	---	285.8	158.8	149.4	60.33	142.7	15.88
366T	849.4	155.4	381.0	285.8	---	104.6	95.3	47.63	86.9	12.70
364T	795.3	155.4	381.0	---	285.8	104.6	95.3	47.63	86.9	10.8
366T	795.3	155.4	381.0	311.2	---	104.6	95.3	47.63	86.9	12.70
404T	913.1	174.5	408.4	---	311.2	190.5	184.2	53.03	177.8	18.05
406T	913.1	174.5	408.4	348.3	---	104.6	95.3	47.63	86.9	12.70
406T	913.1	174.5	408.4	348.3	---	104.6	95.3	47.63	86.9	12.70
406T	913.1	174.5	408.4	348.3	---	104.6	95.3	47.63	86.9	12.70
406T	913.1	174.5	408.4	348.3	---	104.6	95.3	47.63	86.9	12.70
444T	1038.4	209.6	482.6	---	368.3	227.1	215.9	85.73	209.6	22.23
446T	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33	114.3	15.88
446T	1038.4	209.6	482.6	419.1	---	131.8	120.7	60.33	114.3	15.88

- (1) SPECIAL DIMENSIONS APPLYING TO THIS ORDER ON THIS LINE.
- (2) "C" VARIES --- 250T - 320T +0, -8
 --- 360T - 440T +0, -15
 --- HP TO 1.625 DIA. +0.00, -0.03
- (3) "U" VARIES 1.625 AND LARGER +0.00, -0.03
- (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) GROUND SCREW HOLE 3/8-16 TAP 1 TO 200 HP ABOVE 200 HP 1/2-13, SEE NOTE (9)
- (8) AUXILIARY CONDUIT BOX SUPPLIED ONLY WHEN REQUESTED
- (9) DIMENSIONS ARE IN INCHES

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

F MOUNTING CLEARANCE DETAILS ARE REQUIRED. CONSULT FACTORY.

MAXIMUM PERMISSIBLE SHAFT RUNOUT WHEN MEASURED AT END OF STD. SHAFT EXTENSION IS .03 TIR UP TO AND INCLUDING # 224T. MAX. ALLOWED BALL BEARINGS .08 TIR. ROLLER BEARINGS FOR LARGER DIAMETERS.

FRAME _____ TYPE _____ CERTIFIED FOR _____

ORDER _____ ITEM _____ HP _____ RPM _____ PH _____ HZ _____ VOLTS _____

SALES ORDER _____ APPROVED BY _____ DATE _____

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

REV. DESC: EDIT HEADER	VERSION: 02	TDR: 000000453739
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MTL: -		

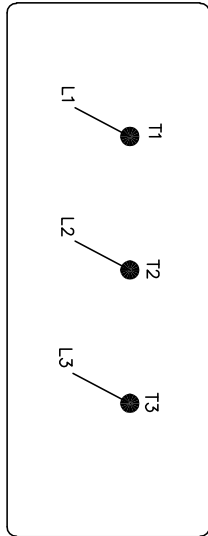
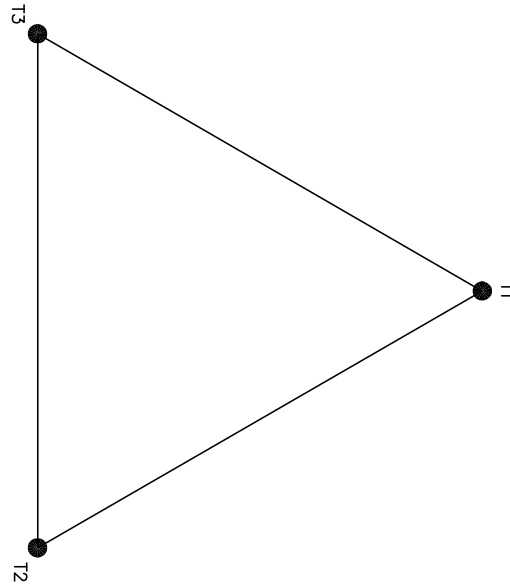
BALDOR • DODGE • RELIANCE

DIM SHT TEFC 250T-440TS STD BRKT 841-XL C BOX ON TOP

416820-025

A-C MOTOR
 CONNECTION DIAGRAM
 STANDARD 3 LEAD DELTA CONNECTED

416820-025



(N.P. 1575-BA)

REV. DESC: REMOVE EXCESS INFORMATION		
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MTL: -	BY: RAGZJR	

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CONNECT DIAGRAM STD 3 LEAD DELTA CONNECTED
 SH 1 of 1

REL. S.O.	FRAME	HP	TYPE	PHASE/HERTZ	RPM	VOLTS
	284T	25	P	3/60	3550	460
AMPS	DUTY	AMB °C/ INSUL.	S.F.	NEMA DESIGN	CODE LETTER	ENCL.
28.1	CONT	40/F	1.15	B	G	TEFC
E/S	ROTOR	TEST S.O.	TEST DATE	STATOR RES. @25 °C (BETWEEN LINES)		
487289	418139-4WE	---	---	.312		

PERFORMANCE


LOAD	HP	AMPERES	RPM	POWER FACTOR %	EFFICIENCY %
NO LOAD	0	7.1	3600	6.85	0
1/4	6.26	9.7	3587	66.4	90.9
2/4	12.5	14.8	3575	84.2	93.5
3/4	18.7	21.1	3562	88.7	93.7
4/4	25.0	28.1	3548	89.2	93.3
5/4	31.2	35.5	3532	89.0	92.6

SPEED TORQUE

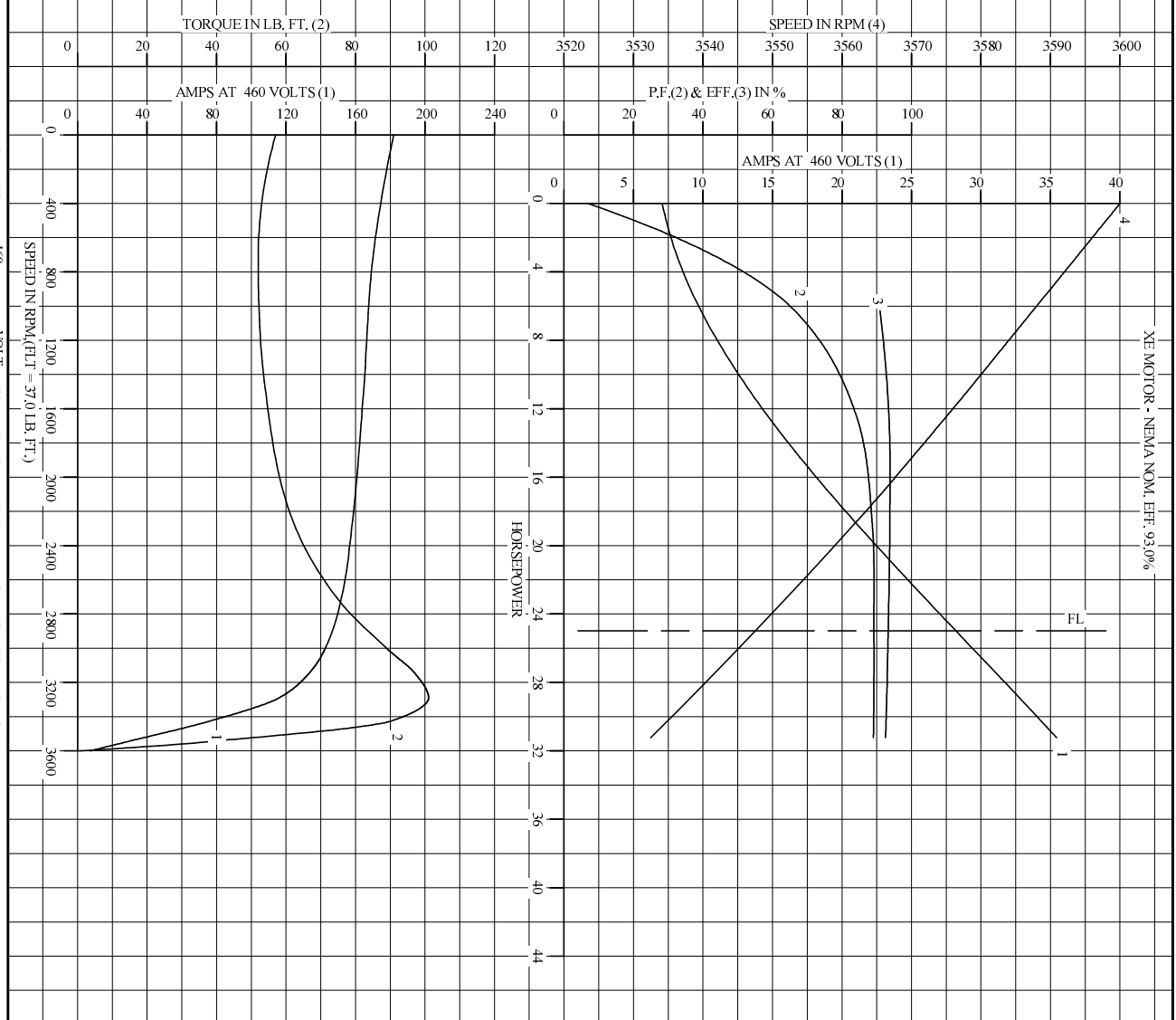
	RPM	TORQUE % FULL LOAD	TORQUE LB.-FT.	AMPERES
LOCKED ROTOR	0	154	57.0	182
PULL UP	720	141	52.0	170
BREAKDOWN	3290	273	101	116
FULL LOAD	3548	100	37.0	28.1

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. 93.0%

	DR. BY A. T. LONG	A-C MOTOR PERFORMANCE DATA W00405-B-E002 ISSUE DATE 12/18/06
	CK. BY R. H. KIRK APP. BY R. A. BRYANT DATE 04/08/98	

RTT S.O.	RPM 3550	S.F. 1.15	ROTOR 418139-4WE
FRAME 284T	VOLTS 460	NEMA DESIGN B	TEST S.O. TYPICAL DATA
HP 25	AMPS 28.1	CODE LETTER G	TEST DATE ---
TYPE P	DUTY CONT	ENCLOSURE TEFC	STATOR RES. @ 25 °C .312
PHASE/HERTZ 3/60	AMB °C/INSUL 40/F	E/S 487289	OHMS (BETWEEN LINES)



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



DR. BY A.T. LONG
 CK. BY K.H. KIRK
 APP. BY R.A. BRYANT
 DATE 04/8/88

A-C MOTOR
PERFORMANCE W00405-B-E002
CURVES ISSUE DATE 12/18/06