

BALDOR® • RELIANCE 

Product Information Packet

CESWDM3709T

7.5HP,3500RPM,3PH,60HZ,213TC,3734M,TEFC

Part Detail							
Revision:	P	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Prod. Type:	3734M	Elec. Spec:	37WGT384	CD Diagram:	CD0005
Enclosure:	TEFC	Mfg Plant:		Mech. Spec:	37H888	Layout:	37LYH888
Frame:	213TC	Mounting:	F1	Poles:	02	Created Date:	02-17-2010
Base:	RG	Rotation:	R	Insulation:	F	Eff. Date:	01-30-2017
Leads:	9#14					Replaced By:	
Literature:		Elec. Diagram:					

Nameplate NP1669L

CAT.NO.	CESWDM3709T											
SPEC.	37H888T384G1											
HP	7.5											
VOLTS	230/460											
AMP	16.6/8.3											
RPM	3500											
FRAME	213TC				HZ		60			PH	3	
SER.F.	1.15		CODE		K		DES		A		CLASS	F
NEMA-NOM-EFF	91		PF		93							
RATING	40C AMB-CONT											
CC	010A						USABLE AT 208V		17.9			
DE	6307				ODE		6206					
ENCL	TEFC		SN									
BLANK												

Parts List		
Part Number	Description	Quantity
SA191063	SA 37H888T384G1	1.000 EA
RA178727	RA 37H888T384G1	1.000 EA
36FN3000C02	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 EA
HW3200S01	EYEBOLT 3/8-16 X3/4 S.S. TDR #35988	1.000 EA
37CB3005A04MU	K.O. BOX-MODEL 37 .75 NPT LEAD	1.000 EA
37GS1025	37 MOLDED GASKET W/LIP, LEAD SEAL	1.000 EA
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 EA
HA5027A04	HA4054 T-DRAIN X2 BAGGED	1.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
37EP3101A49MU	FR EP 37 L & M TEFC (FOR S.P. #9D)	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 EA
37EP3300A25MU	FACE MT EP-ENCL-307 BRG-213TC-215TC NO G	1.000 EA
HW4500A33	1/8 NPT STAINLESS,HOLO-KROME #13002,PRES	3.000 EA
HW4606A04	JM CLIPPER/SEAL (LWE-1376-2125-AL45)	1.000 EA
10XN2520S30	1/4-20 X 1 7/8 HEX HEAD SS	4.000 EA
XY3118S12	5/16-18 HEX NUT, STAINLESS STEEL	4.000 EA
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 EA
37FH4000A45	STAINLESS FAN COVER, NO GREASER SLOT (FO	1.000 EA
11XW1032S06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	3.000 EA
37CB4514	37 CB LID - CLEANED	1.000 EA
37GS1008A02	37 GS FOR CB LID - WHITE NEOPRENE	1.000 EA
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 EA
HW4600B74	V-RING SLINGER 1.125 X 1.445 X .24 VITON	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HW2502F21	#303 SS,SQ KEY 5/16 X 2.375	1.000 EA
HA7000A02	KEY RETAINER RING, 1 1/8 DIA, 1 3/8 DIA	1.000 EA
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
HA3104S14	300UBOLT 12.125LG SS	4.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP1669L	SS WD SUPER-E UL CSA-EEV PREM REV MTG	1.000 EA
36PA1001	PKG GRP, PRINT PK1017A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1000/bx) 11/14	1.000 EA

AC Induction Motor Performance Data

Record # 11724 - Typical performance - not guaranteed values

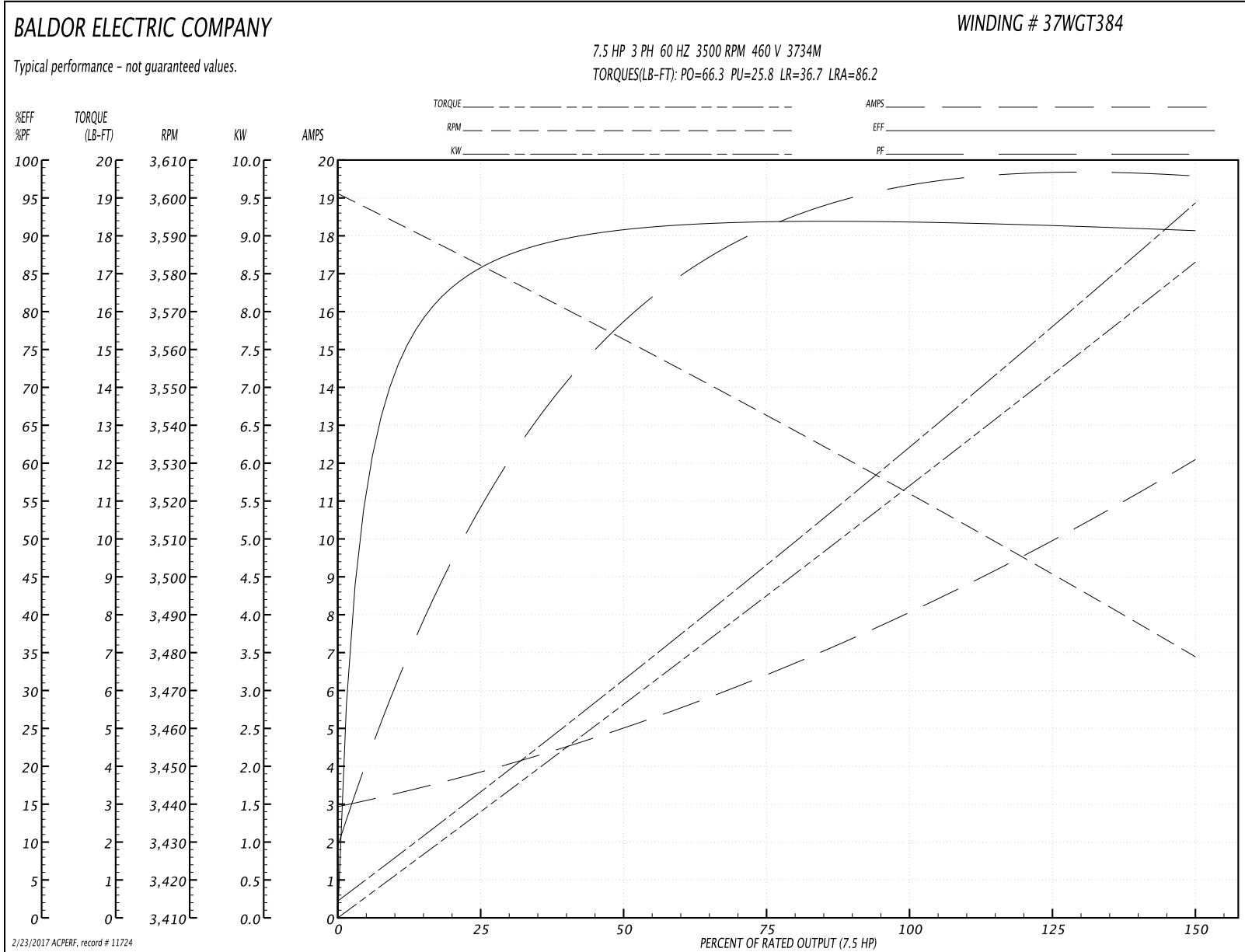
Winding: 37WGT384-R001	Type: 3734M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	11.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	16.6/8.3			Breakdown Torque	66.3 LB-FT
R.P.M.	3500			Pull-up Torque	25.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	36.7 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	86.2 A
Service Factor (S.F.)	1.15			No-load Current	3.25 A
NEMA Nom. Eff.	91	Power Factor	93	Line-line Res. @ 25°C	0.913 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C
				Locked-rotor Power Factor	32.4
				Rotor inertia	0.311 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	85	89	94	95	100	95
Efficiency	84.7	90.9	92.1	92	91.4	90.7	91.6
Speed	3584	3564	3541	3520	3498	3481	3507
Line amperes	3.54	4.72	6.63	8.32	10.3	11.8	9.5

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values



AC Induction Motor Performance Data

Record # 35780 - Typical performance - not guaranteed values

Winding: 37WGT384-R006	Type: 3734M	Enclosure: TEFC
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	7.5			Full Load Torque	11.5 LB-FT
Volts	230/460			Start Configuration	direct on line
Full Load Amps	16.6/8.3			Breakdown Torque	66.3 LB-FT
R.P.M.	3500			Pull-up Torque	25.8 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	36.7 LB-FT
NEMA Design Code	A	KVA Code	K	Starting Current	86.2 A
Service Factor (S.F.)	1.15			No-load Current	3.25 A
NEMA Nom. Eff.	91	Power Factor	93	Line-line Res. @ 25°C	0.913 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	47°C
S.F. Amps				Temp. Rise @ S.F. Load	56°C
				Locked-rotor Power Factor	32.4
				Rotor inertia	0.311 LB-FT ²

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	62	85	89	94	95	100	95
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Speed	3584	3564	3541	3520	3498	3481	3508
Line amperes	3.54	4.72	6.63	8.32	10.3	11.8	9.5

Performance Graph at 460V, 60Hz, 7.5HP Typical performance - Not guaranteed values

