

BALDOR® • RELIANCE 

Product Information Packet

CWDM3537

.5HP,3450RPM,3PH,60HZ,56C,3512M,TENV,F1

Part Detail							
Revision:	AJ	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WG1706	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35T964	Layout:	35LYT964	Poles:	02	Created Date:	06-22-2007
Base:	RG	Eff. Date:	07-17-2018	Leads:	9#18		

Specs			
Catalog Number:	CWDM3537	Heater Indicator:	No Heater
Enclosure:	TENV	Insulation Class:	F
Frame:	56C	Inverter Code:	Not Inverter
Frame Material:	Steel	KVA Code:	L
Output @ Frequency:	.500 HP @ 60 HZ	Lifting Lugs:	No Lifting Lugs
Synchronous Speed @ Frequency:	3600 RPM @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	None	Motor Type:	3512M
XP Division:	Not Applicable	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	76
	UR	Product Family:	Wash Down
Auxillary Box:	No Auxillary Box	Pulley End Bearing Type:	Sealed Bearing
Auxillary Box Lead Termination:	None	Pulley Face Code:	C-Face
Base Indicator:	Rigid	Pulley Shaft Indicator:	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	Rodent Screen:	None
Blower:	None	RoHS Status:	ROHS COMPLIANT

Current @ Voltage:	2.100 A @ 208.0 V	Shaft Extension Location:	Pulley End
	1.900 A @ 208.0 V	Shaft Ground Indicator:	No Shaft Grounding
	1.800 A @ 230.0 V	Shaft Rotation:	Reversible
	.900 A @ 460.0 V	Shaft Slinger Indicator:	Shaft Slinger
Design Code:	B	Speed Code:	Single Speed
Drip Cover:	No Drip Cover	Motor Standards:	NEMA
Duty Rating:	CONT	Starting Method:	Direct on line
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Bearing:	None
Feedback Device:	NO FEEDBACK	Thermal Device - Winding:	None
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
		Winding Thermal 2:	None

Nameplate NP1496L										
CAT.NO.	CWDM3537									
SPEC.	35T964-1706G1									
HP	.5									
VOLTS	208-230/460									
AMP	1.9-1.8/.9									
RPM	3450									
FRAME	56C				HZ	60			PH	3
SER.F.	1.25		CODE	L	DES	B		CLASS	F	
NEMA-NOM-EFF	70		PF	76						
RATING	40C AMB-CONT									
CC								USABLE AT 208V	2.1	
DE	6205				ODE	6203				
ENCL	TENV		SN							
	SFA 2.1-2/1									

Parts List		
Part Number	Description	Quantity
SA111052	SA 35T964-1706G1	1.000 EA
RA102431	RA 35T964-1706G1	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3008A01W	35 CB .50 NPT @ 6, MACH WHITE EPOXY	1.000 EA
35GS1040	35 MOLDED GASKET W/LIP, LEAD SEAL,	1.000 EA
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122D00W	MASTER ODE,203 BRG,.125NPT DRNS(WHITE)	1.000 EA
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307E00W	MASTER DE,205 BRG,1.623SH,.125NPT DRNS,C	1.000 EA
HW4072A01	BLACK DRAIN PLUG FOR .125 NPT	3.000 EA
HW4600B49	SEAL 0.938 X 1.624 X 0.250 SINGLE LIP DB	1.000 EA
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 EA
35CB4522	35 LIPPED CB LID PRIMED	1.000 EA
35GS1030A02	35 GS FOR CB LID - WHITE NEOPRENE	1.000 EA
59XW0832S07	TAPTITE II,HEX WSHR UNSLTD SER,410 S.S.,	4.000 EA
HW4600B46	V-RING SLINGER 0.875 X 1.420 X .24 VITON	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
HA3100S08	THRUBOLT 7.375LG SS	4.000 EA
LB1164	LABEL,WARNING AND DRAIN	1.000 EA
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 EA
MJ1000A02	GREASE, POLYREX EM EXXON (USe 4824-15A)	0.050 LB
MG1025W01	WILKOFAS, 781.01, SIGNAL WHITE #9003	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 EA
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 QT
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 EA
NP1496L	SS WD UL CSA CC	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA
PE-0000002	ZRTG PE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data

Record # 37295 - Typical performance - not guaranteed values

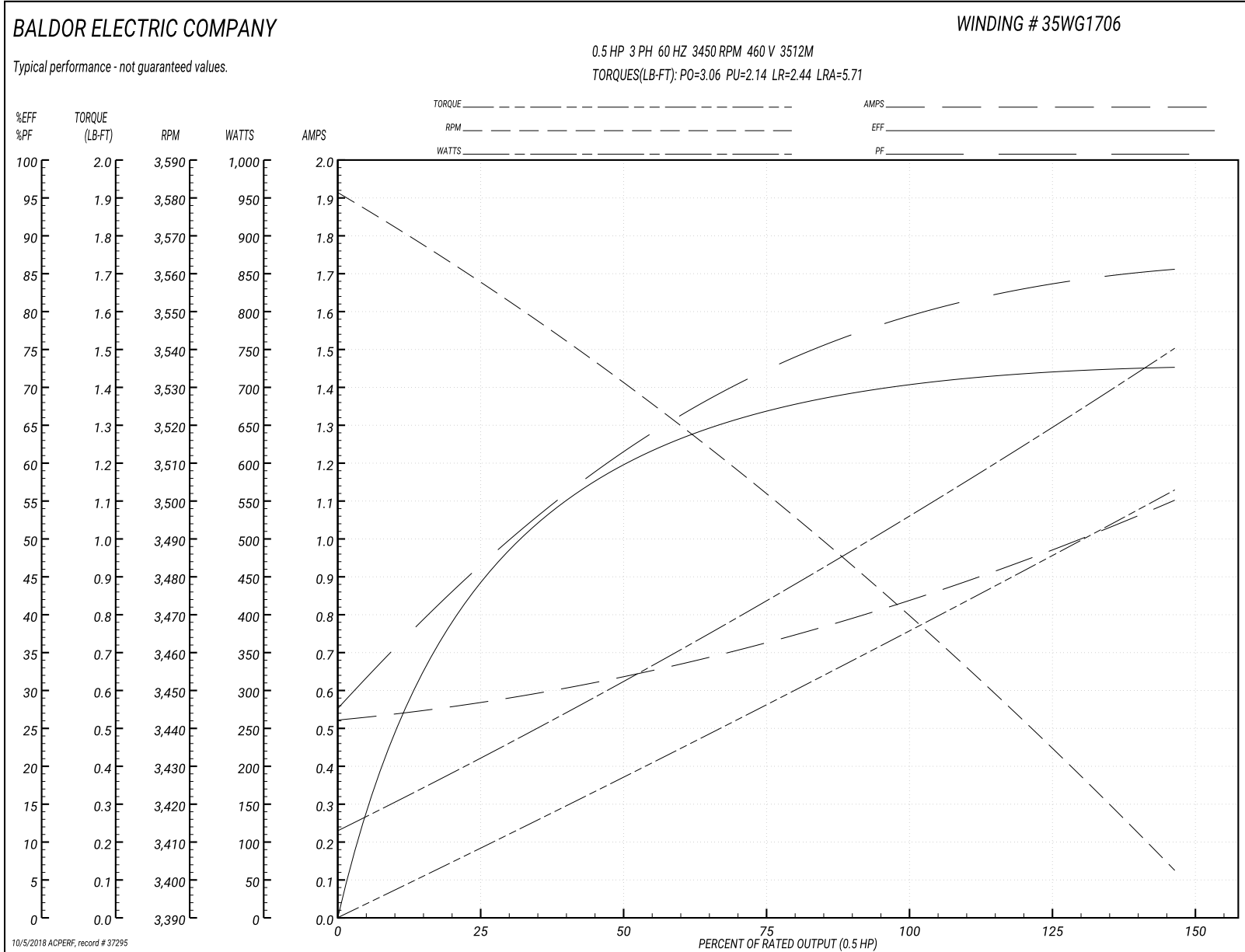
Winding: 35WG1706-R003	Type: 3512M	Enclosure: TENV
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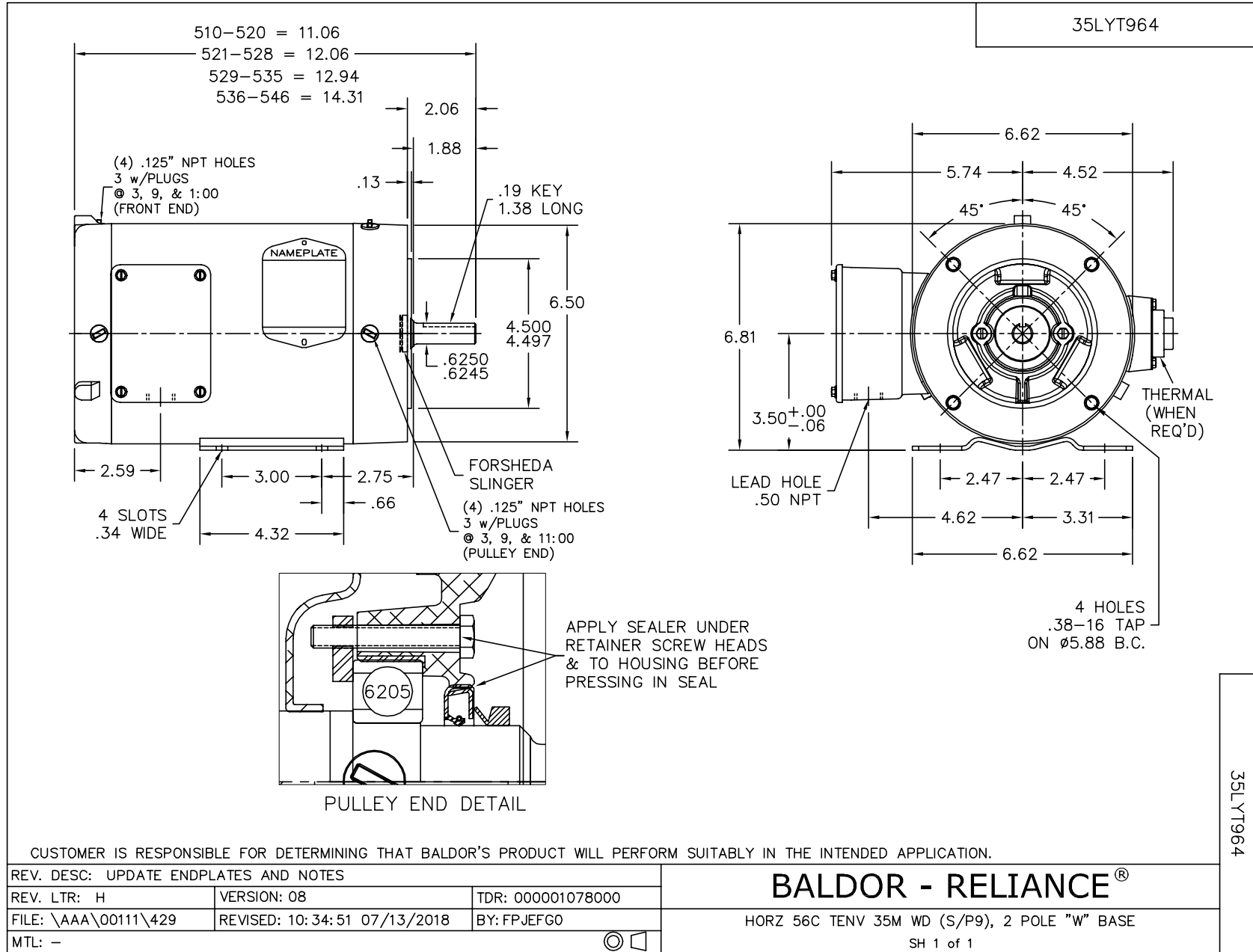
Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	.5			Full Load Torque	0.752 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	1.9-1.8/.9			Breakdown Torque	3.06 LB-FT
R.P.M.	3450			Pull-up Torque	2.14 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	2.44 LB-FT
NEMA Design Code	B	KVA Code	L	Starting Current	5.71 A
Service Factor (S.F.)	1.25			No-load Current	0.525 A
NEMA Nom. Eff.	70	Power Factor	76	Line-line Res. @ 25°C	37.8 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	63°C
S.F. Amps	2.1-2/1			Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	72.9
				Rotor inertia	0.0332 LB-FT ²

Load Characteristics 460 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	48	62	72	79	83	86	83
Efficiency	43.9	59.7	67.1	70.5	72.1	72.5	72.4
Speed	3557	3530	3502	3471	3438	3402	3450
Line amperes	0.565	0.636	0.727	0.839	0.961	1.1	0.96

Performance Graph at 460V, 60Hz, 0.5HP Typical performance - Not guaranteed values





CD0005



LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
900000		FILE: AAA00005140	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005