

BALDOR® • RELIANCE 

Product Information Packet

IDXM7006

.5HP, 1735RPM, 3PH, 60HZ, 56C, 3514M, XPFC, F1

Part Detail							
Revision:	R	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGP862	CD Diagram:	CD0005	Mfg Plant:	
Mech. Spec:	35M998	Layout:	35LYM998	Poles:	04	Created Date:	11-24-2010
Base:	RG	Eff. Date:	05-05-2020	Leads:	9#18		

Specs			
Catalog Number:	IDXM7006	Insulation Class:	F
Enclosure:	XPFC	Inverter Code:	Inverter Duty
Frame:	56C	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	.500 HP @ 60 HZ	Locked Bearing Indicator:	Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	9 @ 18 AWG
Voltage @ Frequency:	460.0 V @ 60 HZ	Motor Lead Exit:	Ko Box
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
XP Class and Group:	CLI GP D; CLII GP F,G	Motor Type:	X3514M
XP Division:	Division I	Mounting Arrangement:	F1
Agency Approvals:	CSA	Power Factor:	74
	UL	Product Family:	General Purpose
	UR	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	C-Face
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Rigid	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	RoHS Status:	ROHS COMPLIANT
Blower:	None	Shaft Extension Location:	Pulley End

Constant Torque Speed Range:	6	Shaft Ground Indicator:	No Shaft Grounding
Current @ Voltage:	.800 A @ 460.0 V	Shaft Rotation:	Reversible
	1.600 A @ 230.0 V	Shaft Slinger Indicator:	No 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:	Normally Closed Thermostat
Front Face Code:	Standard	Vibration Sensor Indicator:	No Vibration Sensor
Front Shaft Indicator:	None	Winding Thermal 1:	None
Heater Indicator:	No Heater	Winding Thermal 2:	None
		XP Temp Code:	T3C

Nameplate NP0887XPSL									
NO.					CC				
S/N					TEMP CODE	T3C			
SPEC.	35M998P862G1				INV.TYPE	PWM			
CAT.NO.	IDX7006				C HP FR	60	C HP TO	90	
HP	.5				CT HZ FROM	6	CT HZ TO	60	
VOLTS	230/460				VT HZ FROM	6	VT HZ TO	60	
AMPS	1.6/8				MAG CUR	1/5			
RPM	1735				MX RPM	2700			
HZ	60	PH	3	CL	F	NOM.EFF.	82.5		
SER.F.	1.00	DES	B	SL HZ	2.2	WK2	0.08		
FRAME	56C	RATING	40C AMB-CONT						
	55C RISE								

Parts List		
Part Number	Description	Quantity
SA212873	SA 35M998P862G1	1.000 EA
RA200102	RA 35M998P862G1	1.000 EA
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 EA
35CB3001A01SP	EXPL CONDUIT BOX, MACH, 1/2" PIPE TAP LE	1.000 EA
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 EA
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 EA
35EP3700A01SP	FR ENDPLATE, XPFC	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3702A01SP	PU EP-205 BRG-35X-56C-143-5TC	1.000 EA
84XN1032J20	SCREW, SOC 10-32 X 1 1/4"BMH4602	2.000 EA
HA3013A01	1/2-20X5/8 SPL.HX BOLT	2.000 EA
HW3021C06	3/32 DI X .625 PIN (F/S)	2.000 EA
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 EA
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
35FH4005A01SP	IEC FH NO GREASER W/PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB3500A01SP	CONDUIT BOX LID, MACH	1.000 EA
51XN2520A16	SCREW, HEX WS SLT, ZN, 1/4-20 X 1.00	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	8.000 EA
NP0018F	ALUM UL XP CONDUIT BOX NAMEPLATE	1.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.017 GA

Parts List (continued)		
Part Number	Description	Quantity
HA3104A06	THRUBOLT 5/16-18 X 8.50 OHIO ROD	4.000 EA
LB1119N	WARNING LABEL	1.000 EA
LC0145B01	CONNECTION LABEL	1.000 EA
NP0887XPSL	SS XP INV UL CSA CC CL-I GP-D CL-II GP-F	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA



AC Induction Motor Performance Data

Record # 36569

Typical performance - not guaranteed values

Winding: 35WGP862	Type: 3513M	Enclosure: XPFC
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Nameplate Data			General Characteristics at 460 V, 60 Hz: High Volt Connection		
Rated Output (HP)	.5		Full Load Torque	1.53 LB-FT	
Volts	230/460		Start Configuration	DOL	
Full Load Amps	1.6/8		Break Down Torque	6.3 LB-FT	
R.P.M.	1735		Pull-Up Torque	3.55 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque	4.82 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	5.57 Amps
Service Factor	1		No-load Current	0.483 Amps	
NEMA Nom. Eff.	82.5	P.F.	74	Line-line Res. @ 25°C.	37.7 Ohms
Rating - Duty	40C AMB-CONT		Temp. Rise @ Rated Load	20°C	
S.F. Amps			Temp. Rise @ S.F. Load	26°C	

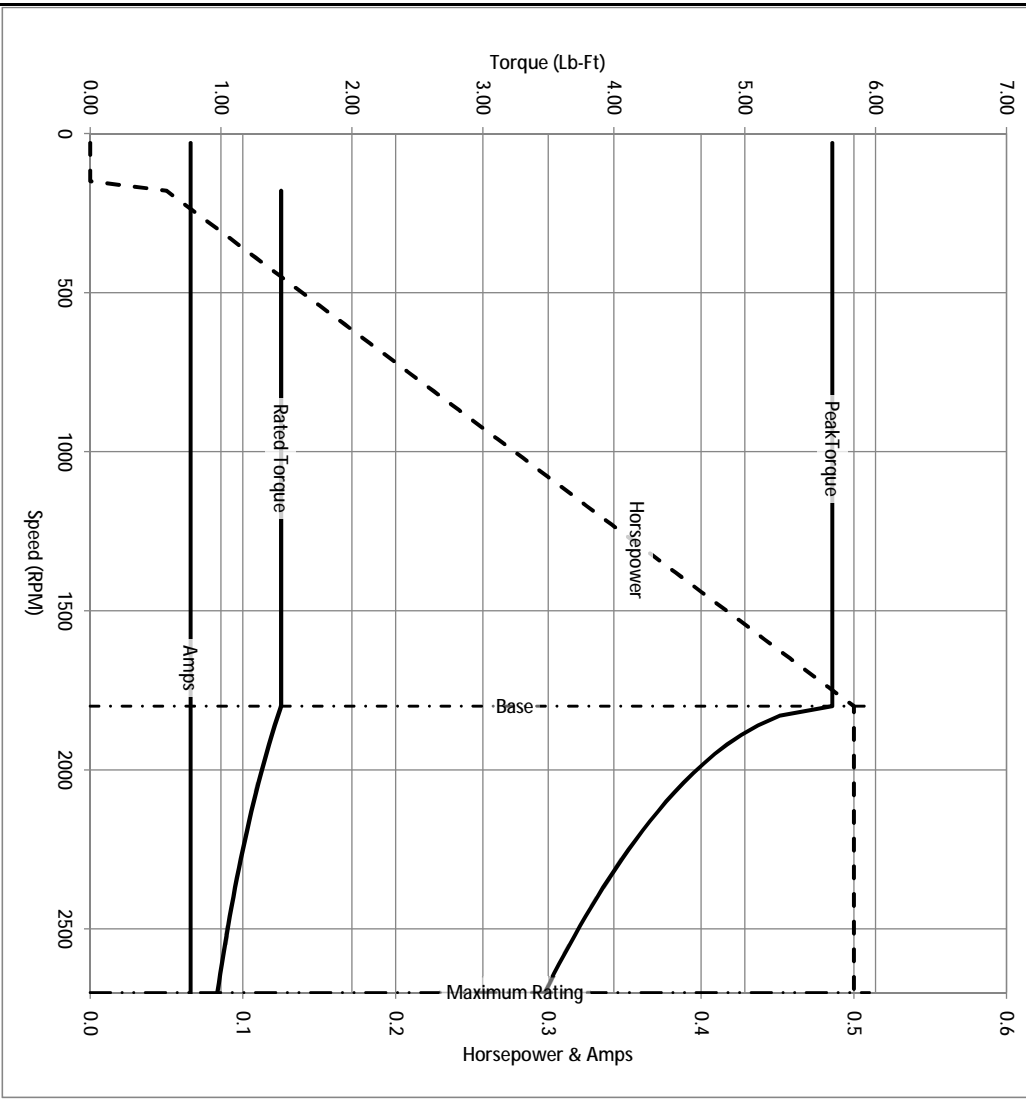
Load Characteristics at 460 Volts, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	34	52	64	75	79	85	
Efficiency	69.7	80.2	82.4	82.8	81.9	79.7	
Speed	1784	1770	1755	1737	1718	1697	
Line Amperes	0.512	0.575	0.662	0.768	0.899	1.04	

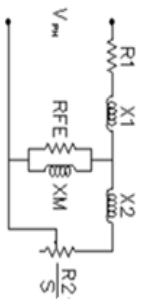
Baldor Electric Company Fort Smith, Arkansas



Catalog	IDXM7006	NP VOLTS	230/460	ENCLOSURE	XPFC	WVE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)
FRAME	56C	NP AMPS	1.6/ .8	Base Volts	460	R1 18.400 X1 22.338
HP	0.5 HP	DUTY	Cont	Base AMPS	0.768	R2 13.200 X2 12.942
BASE SPEED	1800	MAX SAFE RPM	2700	Slip Hz	2.10	XM1 503.246
PHASE/HZ	3/60	AMB ⁰ /INSUL	40/F	WK ² (lb.-ft. ²)	0.0768	



Remarks: Calculated Data



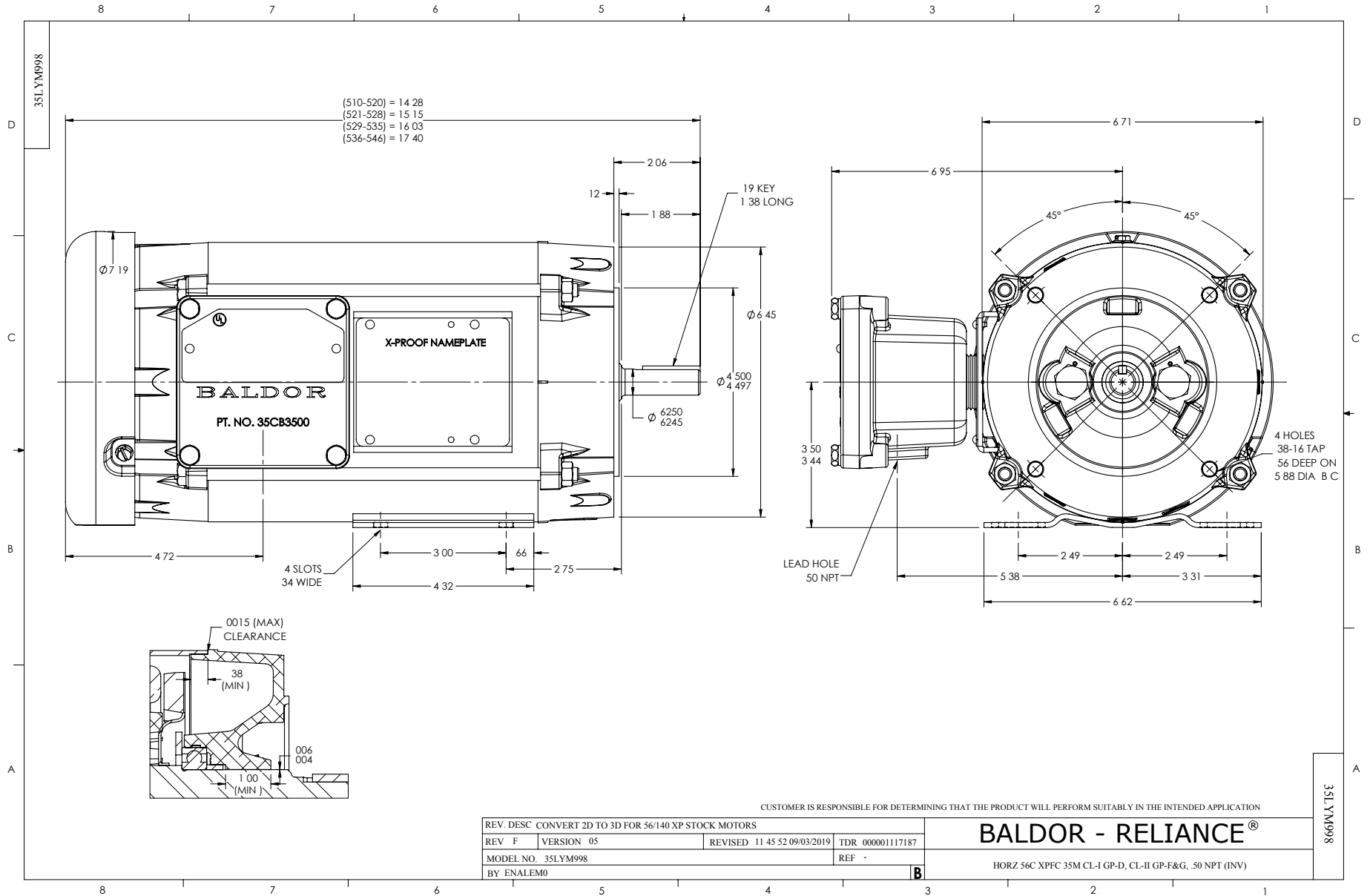
BALDOR DR BY ENR
 CK BY
 APP BY ENR
 DATE 3/6/2013

35M998P862G1

A-C MOTOR
 PERFORMANCE CURVES

ISSUE DATE 3/6/2013

A MEMBER OF THE ABB GROUP



CD0005

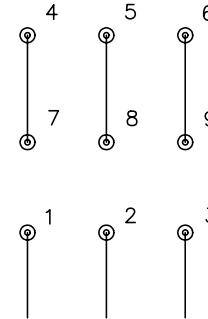


LOW VOLTAGE
(2Y)



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

90000

FILE: AAA00005140

MDL: -

MTL: -

BALDOR ELECTRIC Co.

3PH, DV, 9 LEADS

CD0005