

BALDOR® • RELIANCE 

Product Information Packet

RM3157A

2HP, 1725RPM, 3PH, 60HZ, 56H, 3524M, OPAO, F1, N

Part Detail							
Revision:	AD	Status:	PRD/A	Change #:		Proprietary:	No
Type:	AC	Elec. Spec:	35WGT785	CD Diagram:	CD0007	Mfg Plant:	
Mech. Spec:	35N501	Layout:	35LYN501	Poles:	04	Created Date:	
Base:	RS	Eff. Date:	10-17-2019	Leads:	12#18		

Specs			
Catalog Number:	RM3157A	Insulation Class:	B
Enclosure:	OPAO	Inverter Code:	Not Inverter
Frame:	56H	KVA Code:	K
Frame Material:	Steel	Lifting Lugs:	No Lifting Lugs
Output @ Frequency:	2.000 HP @ 60 HZ	Locked Bearing Indicator:	No Locked Bearing
Synchronous Speed @ Frequency:	1800 RPM @ 60 HZ	Motor Lead Quantity/Wire Size:	12 @ 18 AWG
Voltage @ Frequency:	208.0 V @ 60 HZ	Motor Lead Exit:	Terminal Panel
	230.0 V @ 60 HZ	Motor Lead Termination:	Flying Leads
	460.0 V @ 60 HZ	Motor Type:	3524M
XP Class and Group:	None	Mounting Arrangement:	F1
XP Division:	Not Applicable	Power Factor:	79
Agency Approvals:	UR	Product Family:	General Purpose
	CSA	Pulley End Bearing Type:	Ball
Auxillary Box:	No Auxillary Box	Pulley Face Code:	Resilient Mount
Auxillary Box Lead Termination:	None	Pulley Shaft Indicator:	Standard
Base Indicator:	Resilient	Rodent Screen:	None
Bearing Grease Type:	Polyrex EM (-20F +300F)	Shaft Extension Location:	Pulley End
Blower:	None	Shaft Ground Indicator:	No Shaft Grounding

Current @ Voltage:	2.900 A @ 460.0 V	Shaft Rotation:	Reversible
	5.800 A @ 230.0 V	Shaft Slinger Indicator:	No Slinger
	6.000 A @ 208.0 V	Speed Code:	Single Speed
Design Code:	B	Motor Standards:	NEMA
Drip Cover:	No Drip Cover	Starting Method:	Direct on line
Duty Rating:	CONT	Thermal Device - Bearing:	None
Electrically Isolated Bearing:	Not Electrically Isolated	Thermal Device - Winding:	Do Not Use Eve-Not Valiid
Feedback Device:	NO FEEDBACK	Vibration Sensor Indicator:	No Vibration Sensor
Front Face Code:	Terminal Panel	Winding Thermal 1:	Automatic Thermal Overload
Front Shaft Indicator:	None	Winding Thermal 1 Location:	EP
Heater Indicator:	No Heater	Winding Thermal 2:	None

Nameplate NP1257L												
CAT.NO.	RM3157A											
SPEC.	35N501T785											
HP	2											
VOLTS	208-230/460											
AMP	6-5.8/2.9											
RPM	1725											
FRAME	56H					HZ	60			PH	3	
SER.F.	1.15			CODE	K			DES	B		CL	B
NEMA-NOM-EFF	81.5			PF	79							
RATING	40C AMB-CONT											
CC								USABLE AT 208V	6			
DE	6205			ODE	6203							
ENCL	OPAO			SN								

Parts List		
Part Number	Description	Quantity
SA080214	SA 35N501T785	1.000 EA
RA073621	RA 35N501T785	1.000 EA
11XW0832G06	#8-32 X 3/8, TAPTITE II, HEX WSHR SLTD	1.000 EA
35EP3202A01	STD OPEN FR EP - RESILIENT MTD	1.000 EA
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
HA6005A01	CLAMP, BASE	2.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 EA
LD5000A01	LEAD ASSY, ML1400DF14 7" RING TRM EA END	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	2.000 EA
HW1003A10	WASHER, #10 EX TH LK, ZN X	2.000 EA
SP1003A06	TERM. BOARD, MODE 35 SW X H-23655 SPL CU	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
WD4100A01	DP-875 HEYCO PLUG OR 62MP0875 MICRO PLAS	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP1209A01	PU ENDPLATE, MACH	1.000 EA
RM1000A02	CUSHION RING, MODEL 35 SAME AS A07	1.000 EA
HA6005A01	CLAMP, BASE	2.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	1.000 EA
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 EA
35CB4500SP	TERMINAL BOX LID STAMPED	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA

Parts List (continued)		
Part Number	Description	Quantity
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
MG1000G27	MED CHARCOAL METALLIC GREY 400-0096	0.017 GA
35BA4002B01	RESILIENT BASE, STAMPED	1.000 EA
35AD2005A01	BAFFLE PLATE,MOD 35-SLTD BAND MTRS GL.F.	1.000 EA
35AD2008A01	AIR DEFLECTOR FOR SL BANDW/THERMAL IN FR	1.000 EA
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 EA
LB1118	LABEL,WARNING (ROLL LABEL)	1.000 EA
LC0007	CONNECTION LABEL	1.000 EA
NP1257L	ALUM UL CSA CC THERMAL REV MTG	1.000 EA
35PA1066	PKG GRP, PRINT PK1008A06	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (1200/bx) 3/19	1.000 EA

AC Induction Motor Performance Data

Record # 61277 - Typical performance - not guaranteed values

Winding: 35WGT785-R004	Type: 3524M	Enclosure: OPSB
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Nameplate Data				460 V, 60 Hz: High Voltage Connection	
Rated Output (HP)	2			Full Load Torque	6.1 LB-FT
Volts	208-230/460			Start Configuration	direct on line
Full Load Amps	6-5.8/2.9			Breakdown Torque	22 LB-FT
R.P.M.	1725			Pull-up Torque	16 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	19 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	21 A
Service Factor (S.F.)	1.15			No-load Current	1.7 A
NEMA Nom. Eff.	81.5	Power Factor	79	Line-line Res. @ 25°C	9.26 Ω
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	62°C
S.F. Amps				Temp. Rise @ S.F. Load	74°C
				Locked-rotor Power Factor	64
				Rotor inertia	0.142 LB-FT ²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	36	58	71	79	84	87	82
Efficiency	70.8	80.4	82.4	82.4	81.2	79.2	81.7
Speed	1781	1765	1748	1731	1712	1688	1720
Line amperes	1.8	2	2.4	2.9	3.4	4.1	3.2

Performance Graph at 460V, 60Hz, 2.0HP Typical performance - Not guaranteed values

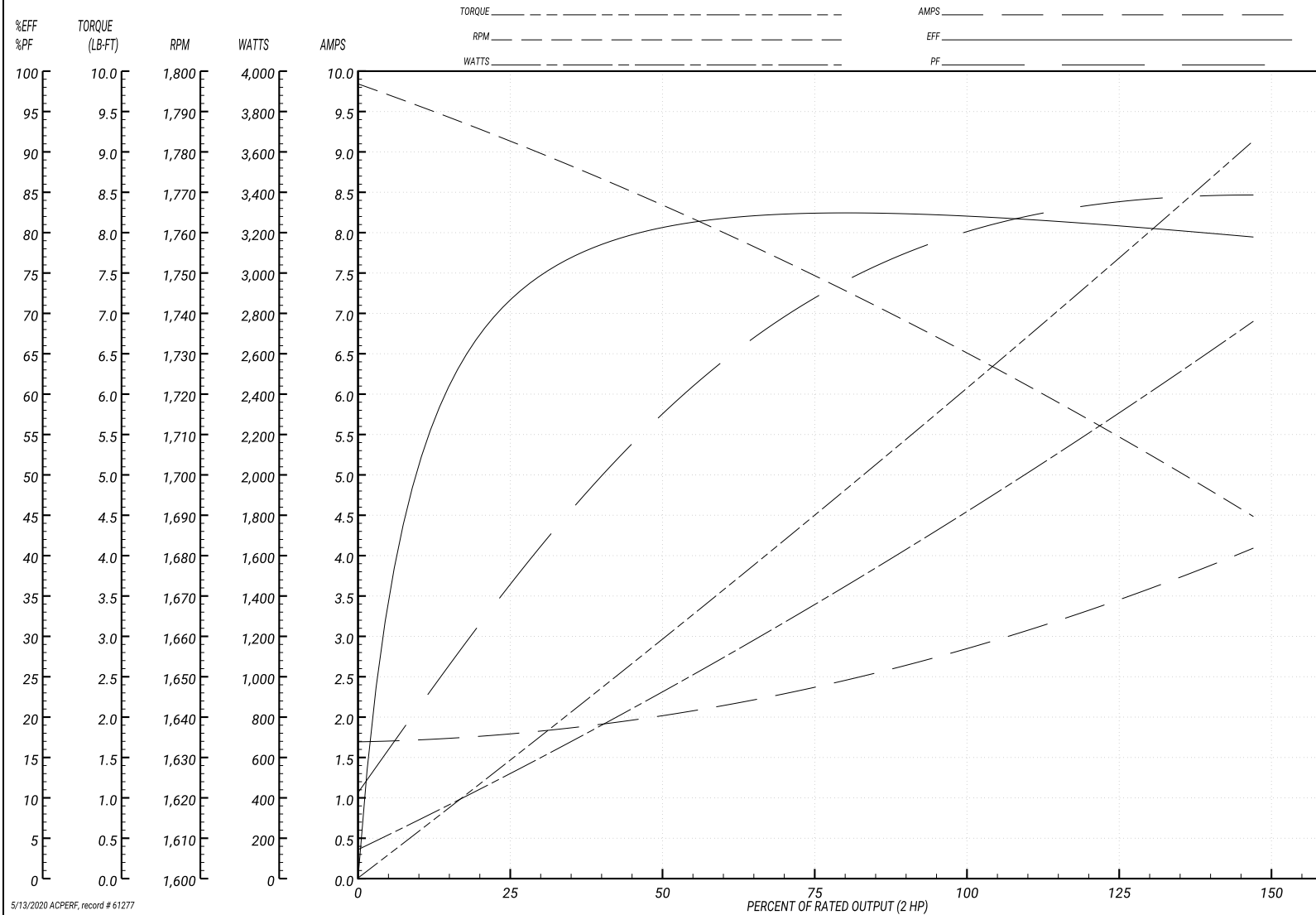
ABB Motors and Mechanical Inc.

WINDING # 35WGT785

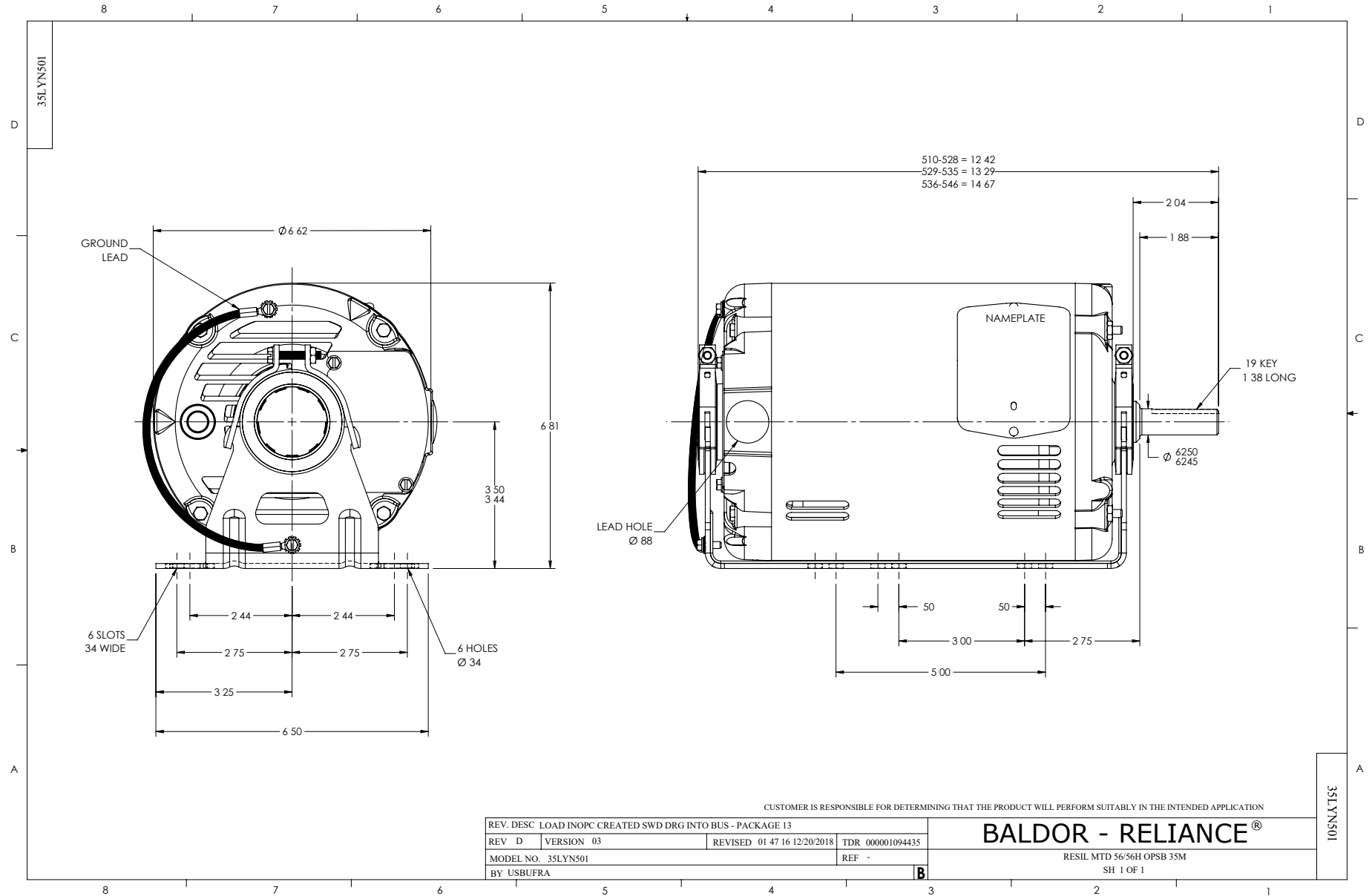
Typical performance - not guaranteed values.

2 HP 3 PH 60 HZ 1725 RPM 460 V 3524M

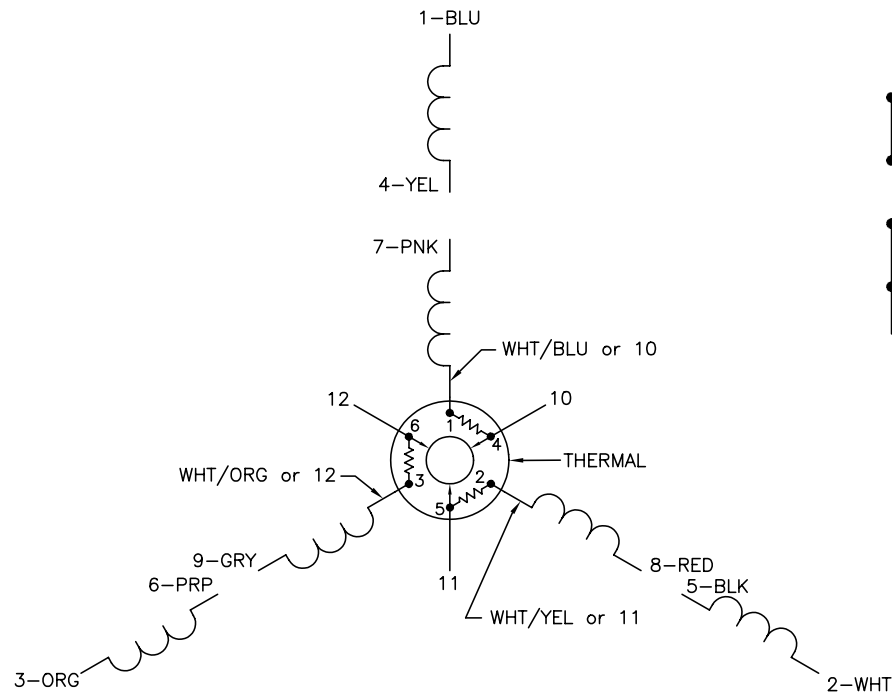
TORQUES(LB-FT): PO=22 PU=16 LR=19 LRA=21



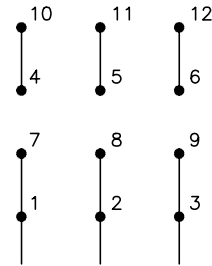
5/13/2020 ACPERF, record # 61277



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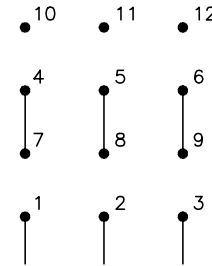


LOW VOLTAGE
(2Y)



LINE

HIGH VOLTAGE
(1Y)



LINE

NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
3. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

REV. DESC: ADDED "CK" PLANT CODE			
REV. LTR: E	BY: EAH	REVISED: 05/06/99 17:1	TDR: 0181040
L00000		FILE: AAA00008370	MDL: -
		MTL: -	

BALDOR ELECTRIC Co.

3PH, DV, THERMAL, 12 LEADS

CD0007