

ABB BALDOR RELIANCE III

Customer information packet

KBL3406

.33HP, 1725RPM, 1PH, 60HZ, 56C, BRAKE, 3414L

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Induction Run
Output @ Frequency	.330 HP @ 60 HZ
Phase	1
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	115.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	UR CSA
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.000 A @ 230.0 V 3.600 A @ 208.0 V 6.000 A @ 115.0 V
Design Code	N
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	60.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Brake Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AY
Type	AC
Mech. spec.	34K027
Base	
Status	PRD/A
Elec. spec.	34WG5507
Layout	34LYK027
Eff. date	10-28-2024
CD Diagram	CD0001
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

High Voltage Full Load Amps	3.0 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3414L
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.45 IN
Power Factor	60
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2

None

Nameplate

NP1256L											
CAT.NO.	KBL3406										
SPEC.	34K27-5507-B										
HP	.33										
VOLTS	115/230										
AMP	6/3										
RPM	1725										
FRAME	56C		HZ	60				PH	1		
SER.F.	1.35		CODE	L	DES	N		CLASS	B		
NEMA-NOM-EFF	60		PF	60							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 6.8/3.4										

Parts List

Part number	Description	Quantity
SA008128	SA 34K27-5507-B	1.000 ea
RA004575	RA 34K27-5507-B	1.000 ea
EC1189A02SP	61B2D120189NNBA ELEC CAP, 189-227MFD, 12	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A	CB CAST W/.88 DIA HOLE	1.000 ea
34GS1029A01	GASKET, CONDUIT BOX	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HA2001A01	SPACER, .218 ID X .250 LG	2.000 ea
11XT0832A12	8-32 X 3/4 HX WSHD SLTD, TY23	2.000 ea
34CB4800SP	CAPACITOR COVER, STAMPED PRIMED	1.000 ea
34GS3000SP	GASKET, CAPACITOR BOX	1.000 ea
51XB1016A05	10-16X5/16HX WA SL SR TYB (F/S)	2.000 ea
WD1000A16	2-520128-2 AMP FLAG TERMINAL(4M/RL)	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3300A24SP	PU ENDPLATE, MACH	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
34FN3002A03	EXTERNAL FAN, PLASTIC, .500 HUB I.D. W/5	1.000 ea
HW2500A13	KEY, USA #605, WOODRUFF	1.000 ea
18XN2520A08	1/4-20X1/2 FLAT HD SLTD X	2.000 ea
34FH4002A05	IEC FH W/DEEPER DIMPLES FOR BRAKE COVER,	1.000 ea
51XB1016A06	10-16X3/8 HXWSSLD SERTYB	3.000 ea
34CB4517	CB LID 4 MTG HOLES .22 DIA STAMPED, FOR	1.000 ea
34GS1031A01	GASKET, FLAT CONDUIT BOX LID (LEXIDE)	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
34EP3900T09	FR ENDPLATE, MACH	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1185	LABEL,BRAKE CONNECTION (ON ROLLS)	1.000 ea

SP5051B16	MDL 34 TORQ STAT SW,TYPE L , STD F1 & F2	1.000 ea
HA3100A12	THRUBOLT 10-32 X 7.375	4.000 ea
48BK6101BP-D	BRAKE, DRILL FOR COVER	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
27PA1001	PKG GRP, PRINT PK1027A06	1.000 ea
PK3083	STYROFOAM PACKING CRADLE	1.000 ea
PK3088	MICROFOAM, 8"X"8 PERF. SHEETS	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data

Record # 6774

Typical performance - not guaranteed values

Winding: 34WG5507-R001			Type: 3414L		Enclosure: TEFC			
Nameplate Data			230 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		.33	Full Load Torque		1 LB-FT			
Volts		115/230	Start Configuration		direct on line			
Full Load Amps		6/3	Breakdown Torque		2.95 LB-FT			
R.P.M.		1725	Pull-up Torque		2.55 LB-FT			
Hz	60	Phase	1	Locked-rotor Torque		3.6 LB-FT		
NEMA Design Code		N	KVA Code	L	Starting Current		13 A	
Service Factor (S.F.)		1.35		No-load Current		2.6 A		
NEMA Nom. Eff.		60	Power Factor		60	Line-line Res. @ 25°C		6.32 Ω A Ph 4.93 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		67°C		
S.F. Amps		6.8/3.4		Temp. Rise @ S.F. Load		83°C		

Load Characteristics 230 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	60	67	73	71
Efficiency	33	41	52	60	61.5	61.5	61.5
Speed	1780	1760	1745	1725	1705	1680	1690
Line amperes	2.6	2.7	2.8	3	3.3	3.7	3.4

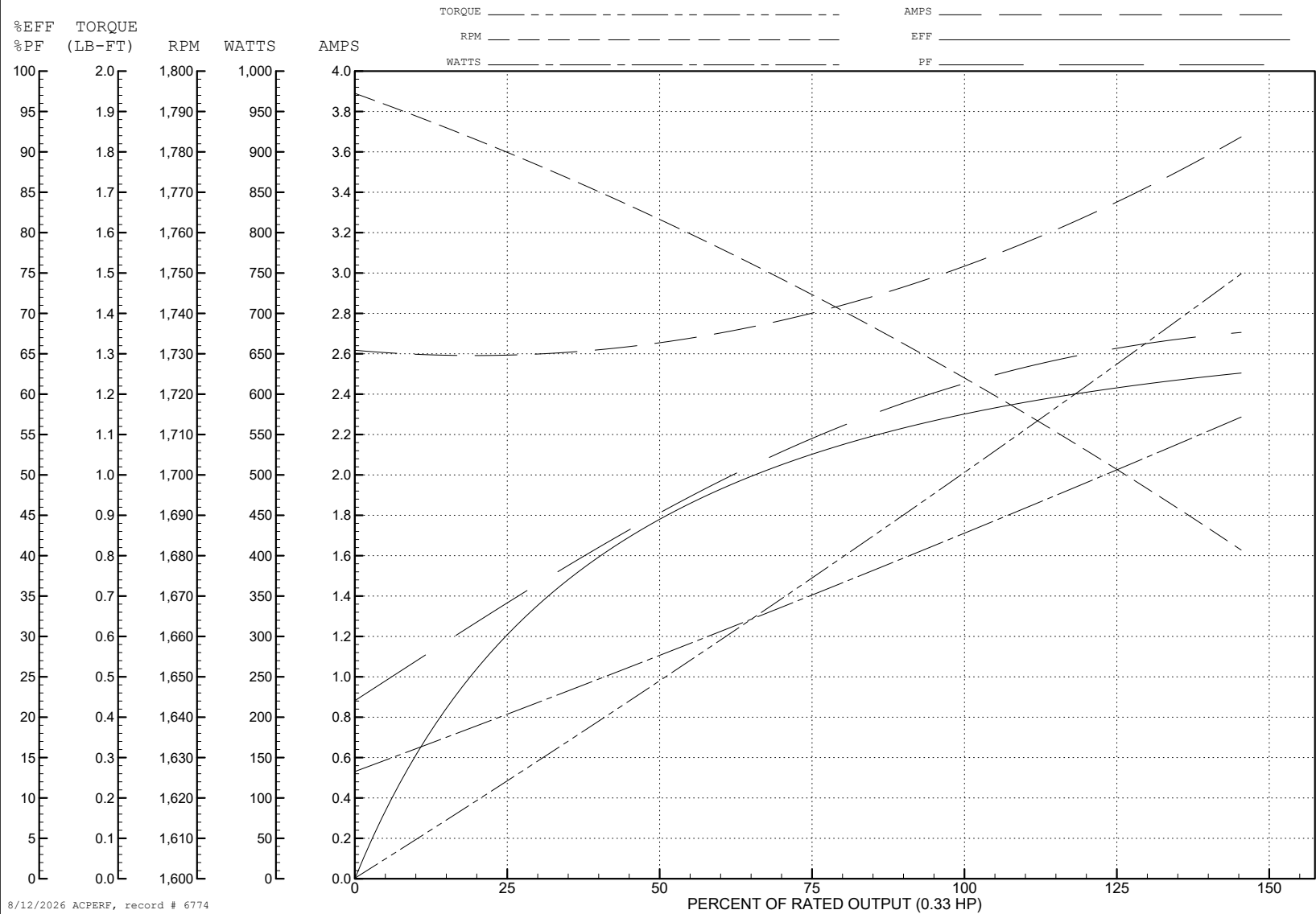
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WINDING # 34WG5507

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 230 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=13



AC Induction Motor Performance Data

Record # 29314

Typical performance - not guaranteed values

Winding: 34WG5507-R001			Type: 3414L	Enclosure: TEFC		
Nameplate Data				115 V, 60 Hz: Low Voltage Connection		
Rated Output (HP)		.33		Full Load Torque		1 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		6/3		Breakdown Torque		2.95 LB-FT
R.P.M.		1725		Pull-up Torque		2.55 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		3.6 LB-FT
NEMA Design Code		N	KVA Code	Starting Current		26 A
Service Factor (S.F.)		1.35		No-load Current		5.2 A
NEMA Nom. Eff.		60	Power Factor	Line-line Res. @ 25°C		1.5 Ω A Ph 4.81 Ω B Ph
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		68°C
S.F. Amps		6.8/3.4		Temp. Rise @ S.F. Load		81°C

Load Characteristics 115 V, 60 Hz, 0.33 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	31	41	52	59	65	67	66
Efficiency	34	49	56	59.9	62	63	62.4
Speed	1783	1765	1745	1730	1710	1680	1698
Line amperes	5.2	5.4	5.6	6	6.6	7.4	6.92

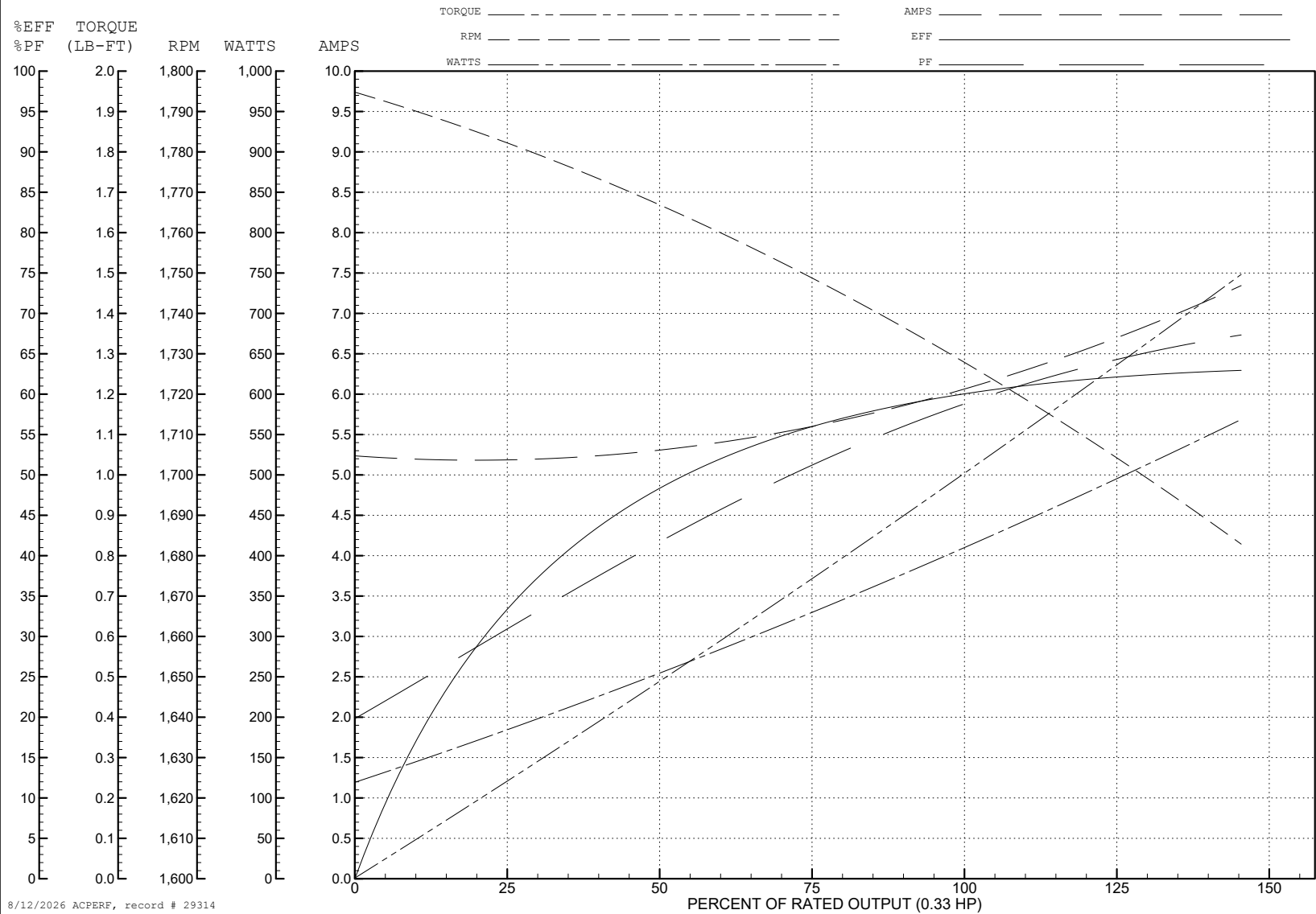
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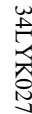
WINDING # 34WG5507

Typical performance - not guaranteed values.

0.33 HP 1 PH 60 HZ 1725 RPM 115 V 3414L

TORQUES (LB-FT) : PO=2.95 PU=2.55 LR=3.6 LRA=26





CD0001

