

ABB BALDOR RELIANCE III

Customer information packet

EL3403

.25HP, 1745RPM, 1PH, 60HZ, 48, 3414LC, TEFC, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	48
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Cap Start, Cap Run
Output @ Frequency	.250 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	C UR US CSA CURUS CURUSEEV NEMA PREMIUM (OLD LOGO) UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.250 A @ 230.0 V 2.500 A @ 115.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK

Part Detail

Revision	AF
Type	AC
Mech. spec.	34G374
Base	
Status	PRD/A
Elec. spec.	34WGW955
Layout	34LYG374
Eff. date	10-29-2024
CD Diagram	CD0055
Poles	04
Leads	6#18
Proprietary	False
Created date	01-01-0001

Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No 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	3414LC
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.35 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.500 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1745 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

NP2116L											
CAT.NO.	EL3403										
SPEC.	34G374W955G1										
HP	.25										
VOLTS	115/230										
AMP	2.5/1.25										
RPM	1745										
FRAME	48			HZ	60			PH	1		
SER.F.	1.35		CODE	K		DES	-	CL	F		
NEMA-NOM-EFF	74		PF	89							
RATING	40C AMB-CONT										
CC											
DE	6203		ODE	6203							
ENCL	TEFC		SN								
	SFA 3.2/1.6										

Parts List

Part number	Description	Quantity
SA006943	SA 34G374W955G1	1.000 ea
RA003390	RA 34G374W955G1	1.000 ea
OC3015F12SP	CYL OIL CAP 15MFD/370V	1.000 ea
EC1108A01	ELEC CAP, 108-130 MFD, 125V, 1.48D X 2.	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
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	2.000 ea
34EP3102A01SP	FR ENDPLATE, MACH	1.000 ea
34CB3801	CAPACITOR BOX, DIE CAST	1.000 ea
34GS3002	GASKET, CAPACITOR BOX	1.000 ea
NS2501A02	INSULATOR, CAPACITOR BOX	1.000 ea
51XB1214A08	12-14 X 1/2HX WS SL SR TYBX	2.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
34EP3102A02SP	FR/PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
34FN3002A01SP	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
34FH4002A01SP	IEC FH NO GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	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
34GS5003A01	FOAM SLEEVE, ID = 2 1/16" X 4 3/8"	3.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.014 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
SP5051B17	MDL 34 TORQ STAT SW,TYPE LC, STD F1 & F2	1.000 ea
HA3100A44	THRUBOLT 10-32 X 8.000	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0001A01	CONN LABEL / WARNING LABEL (LC0001 / LB1	1.000 ea

NP2116L	ALUM SUPER-E UL CC	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

Accessories

Part number	Description	Multiplier
34-3900T	C-FACE KIT	A8

AC Induction Motor Performance Data

Record # 20831

Typical performance - not guaranteed values

Winding: 34WGW955-R002			Type: 3414LC		Enclosure: TEFC	
Nameplate Data				230 V, 60 Hz: High Voltage Connection		
Rated Output (HP)		.25		Full Load Torque		0.75 LB-FT
Volts		115/230		Start Configuration		direct on line
Full Load Amps		2.5/1.25		Breakdown Torque		1.9 LB-FT
R.P.M.		1745		Pull-up Torque		1.7 LB-FT
Hz	60	Phase	1	Locked-rotor Torque		2.4 LB-FT
NEMA Design Code		- KVA Code		Starting Current		9.1 A
Service Factor (S.F.)		1.35		No-load Current		0.7 A
NEMA Nom. Eff.		74	Power Factor	89	Line-line Res. @ 25°C 10.04 Ω A Ph 7.87 Ω B Ph	
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		27°C
S.F. Amps		3.2/1.6		Temp. Rise @ S.F. Load		34°C

Load Characteristics 230 V, 60 Hz, 0.25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	64	77	83	87	89	91	90
Efficiency	45.7	62.4	69.5	73.5	74.7	74.2	75.2
Speed	1786	1775	1763	1749	1732	1712	1725
Line amperes	0.7	0.9	1.1	1.3	1.5	1.8	1.6

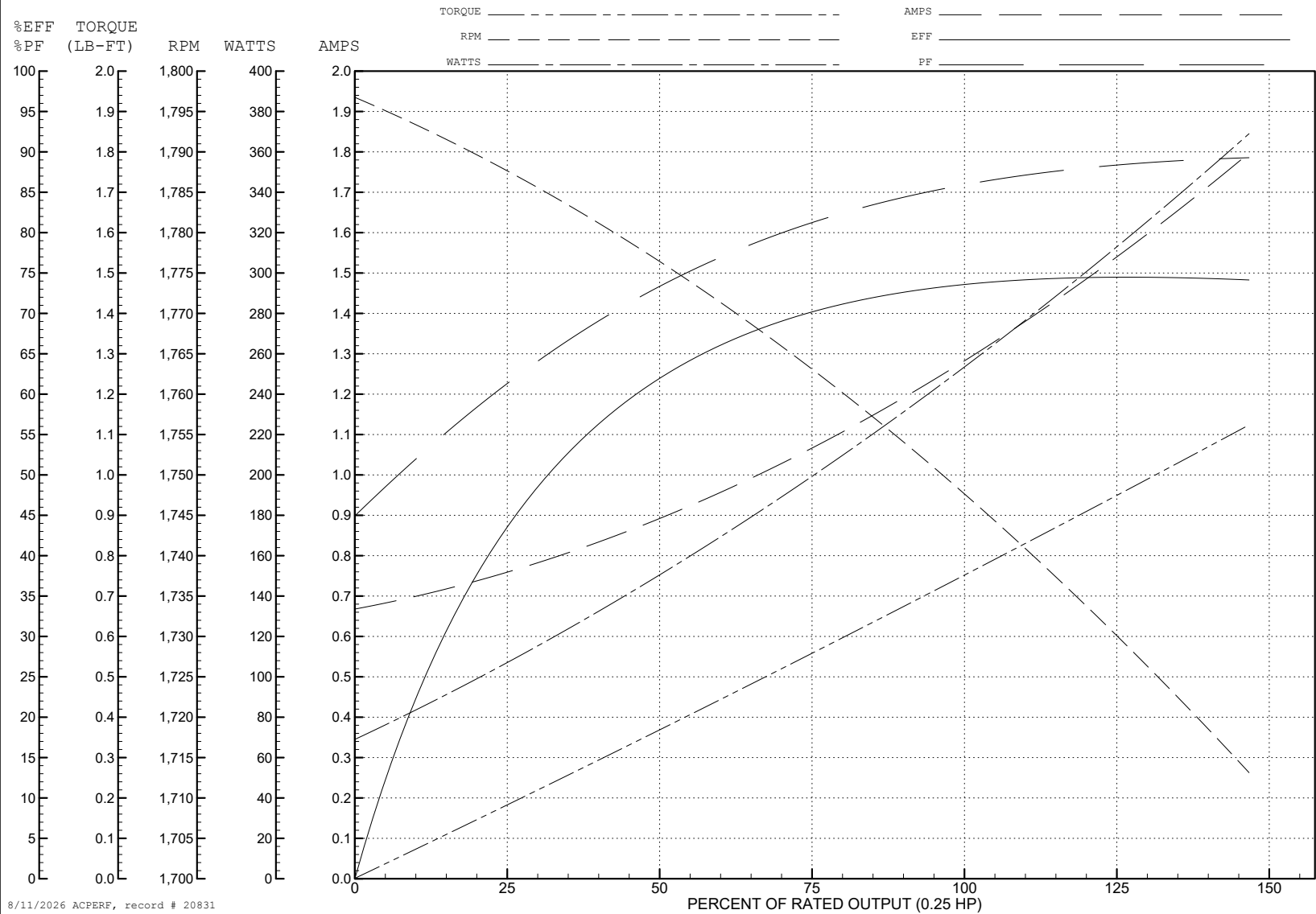
ABB Motors and Mechanical Inc.

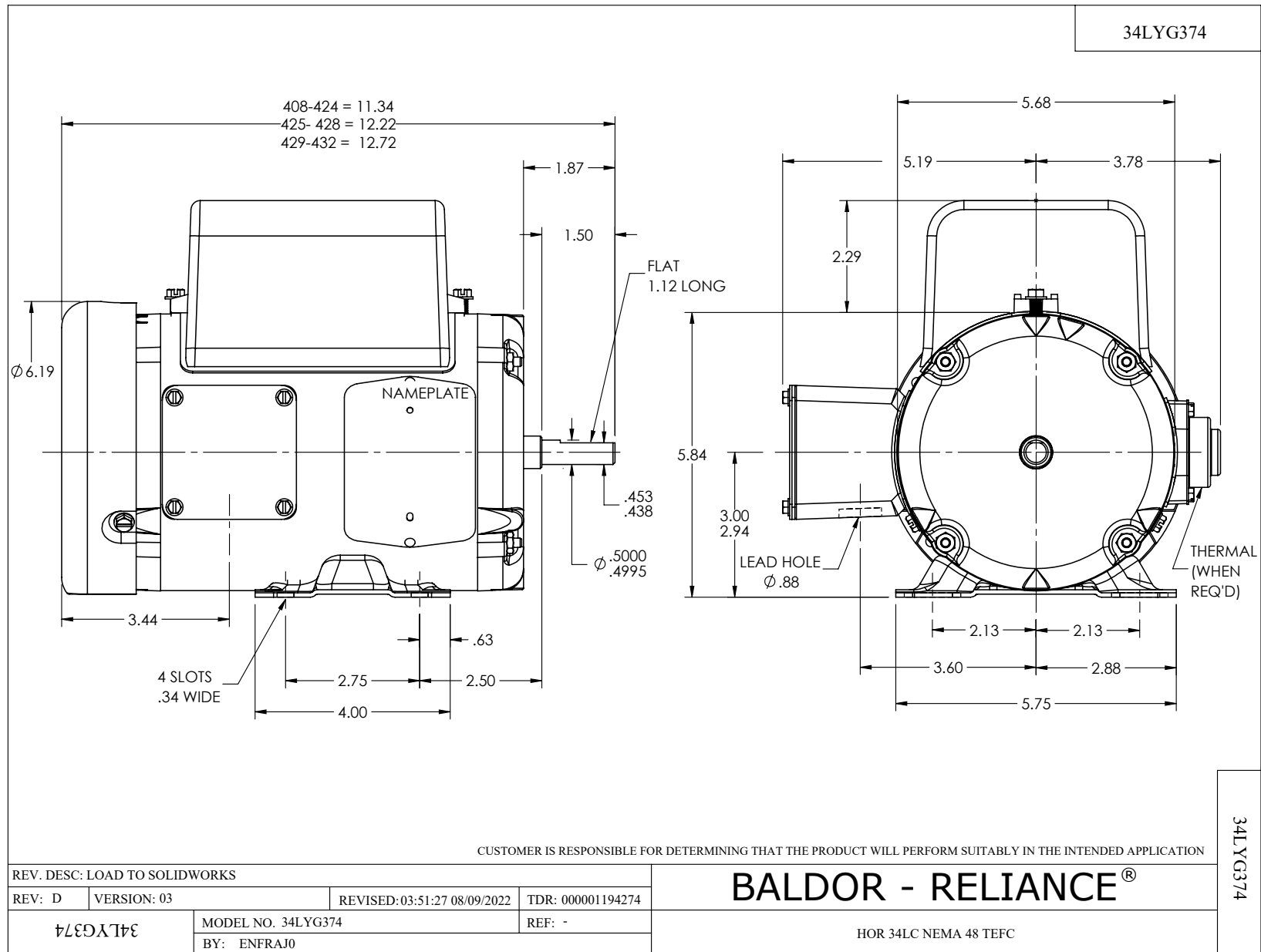
WINDING # 34WGW955

Typical performance - not guaranteed values.

0.25 HP 1 PH 60 HZ 1745 RPM 230 V 3414LC

TORQUES (LB-FT): PO=1.9 PU=1.7 LR=2.4 LRA=9.1





CD0055

