

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								

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

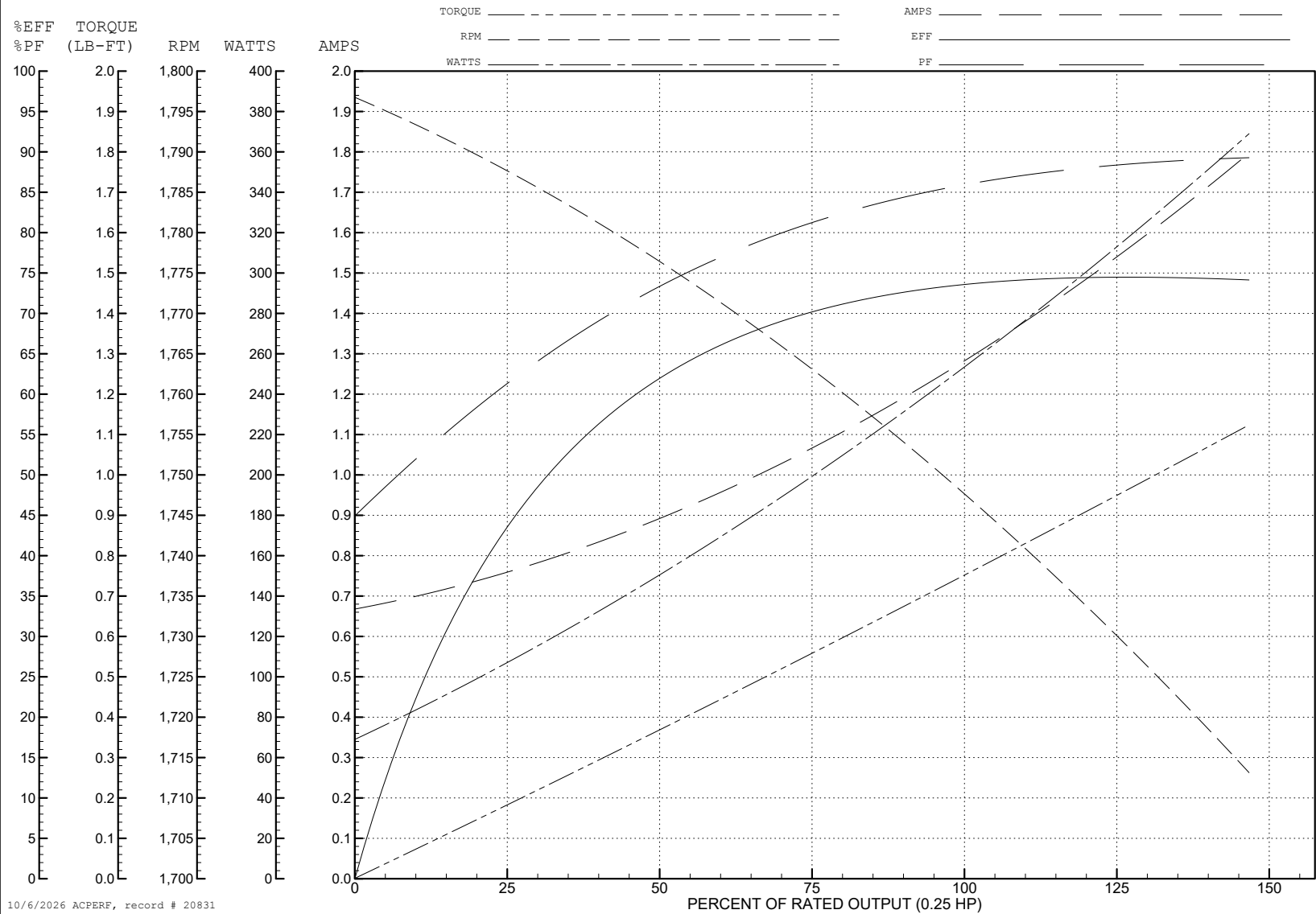
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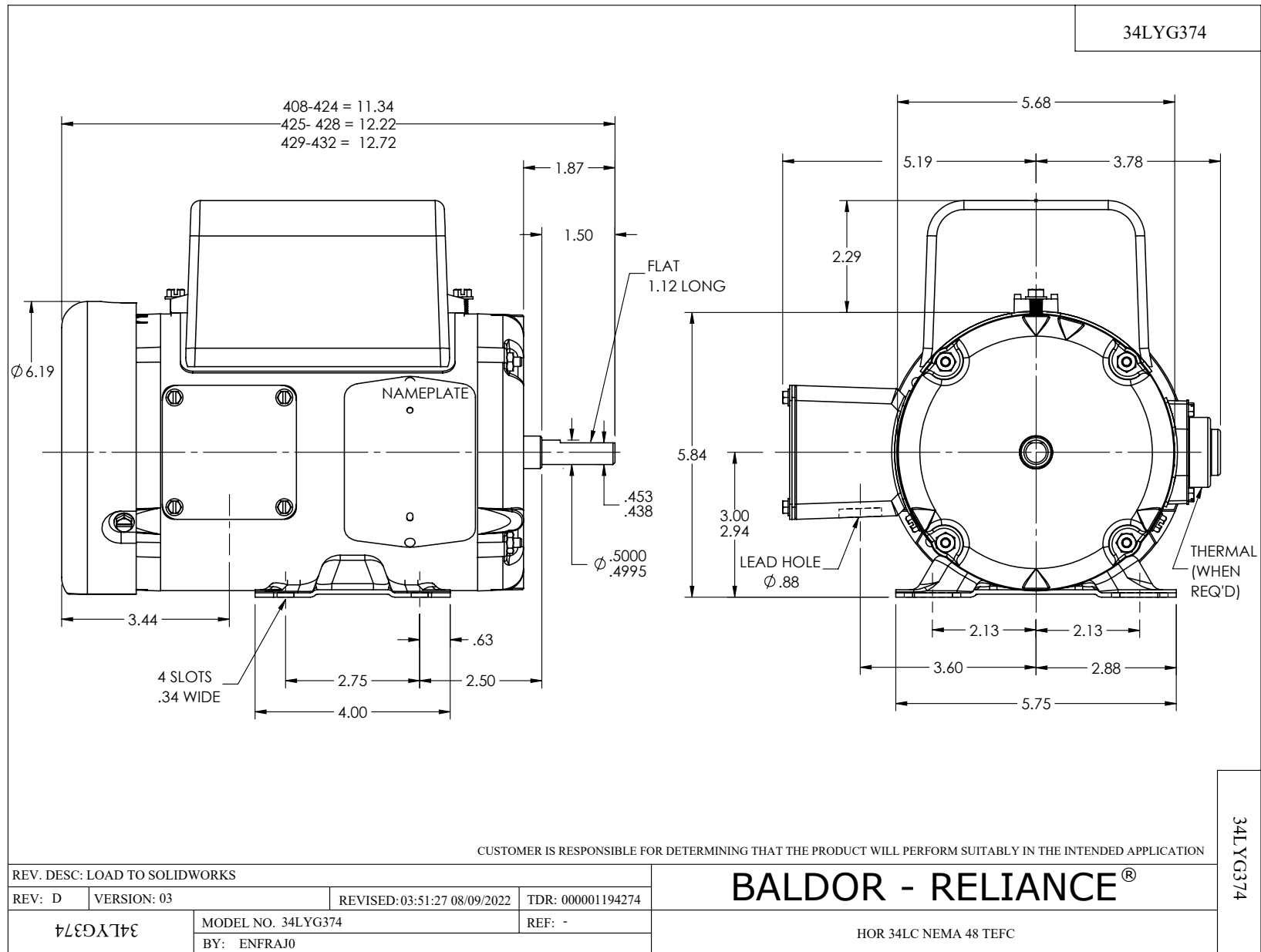
WINDING # 34WG955

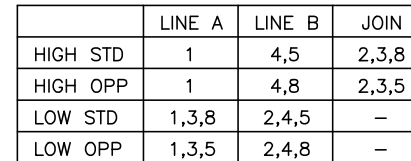
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0.25 HP 1 PH 60 HZ 1745 RPM 230 V 3414LC

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







1. STANDARD ROTATION IS CCW FACING END OPPOSITE SHAFT EXTENSION.
2. OPTIONAL THERMOSTAT IS PROVIDED WHEN SPECIFIED.
3. MULTIPLE CAPACITORS ARE CONNECTED IN PARALLEL UNLESS OTHERWISE SPECIFIED.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

TYPE LC, DV, REV, 6 LEADS