

ABB BALDOR RELIANCE III

Customer information packet M3355

.17HP, 1725RPM, 3PH, 60HZ, 42, 3316M, TEFC, F1

Specifications

Enclosure	TEFC
Frame	42
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.170 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ 230.0 V @ 60 HZ
Agency Approvals	C UR US
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	.600 A @ 460.0 V 1.200 A @ 230.0 V 1.400 A @ 208.0 V
Design Code	-
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	62.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Feedback Signal	NONE
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.6 a
Insulation Class	B

Part Detail

Revision	AG
Type	AC
Mech. spec.	33-870
Base	
Status	PRD/A
Elec. spec.	33WG0423
Layout	33LY0870
Eff. date	10-24-2024
CD Diagram	CD0005A05
Poles	04
Leads	9#18
Proprietary	False
Created date	06-25-2007

Inverter Code	Not Inverter
IP Rating	NONE
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3316M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	9.56 IN
Power Factor	51
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	0.375 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.	M3355								
SPEC.	33-870-423								
HP	.17								
VOLTS	230/460								
AMP	1.2/.6								
RPM	1725								
FRAME	42		HZ	60			PH	3	
SER.F.	1.35	CODE	-	DES	-	CLASS		B	
NEMA-NOM-EFF	62	PF	51						
RATING	40C AMB-CONT								
CC									
DE	6203		ODE	6203					
ENCL	TEFC	SN							
	SFA 1.3/.65								

Parts List

Part number	Description	Quantity
SA007369	SA 33-870-423	1.000 ea
RA003816	RA 33-870-423	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A64	CB W/.69 DIA @ 6	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
33EP3100A01	EP,33AC ODE GP 6203 TEFC W/DRAIN	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
33EP3100A02	PU ENDPLATE, MACH	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	2.000 ea
33FN3000	EXTERNAL FAN, PLASTIC	1.000 ea
HW1003A08	WASHER, #8 EX TH LK, ZN (F/S)	1.000 ea
33FH4001A01	FAN COVER, STAMPED	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
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.013 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A79	THRUBOLT 10-32 X 6.625	2.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 ea
NP1256L	ALUM UL CC INDUSTRIAL MOTOR A60	1.000 ea
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea

AC Induction Motor Performance Data

Record # 6269

Typical performance - not guaranteed values

Winding: 33WG0423-R001			Type: 3316M		Enclosure: TEFC		
Nameplate Data			460 V, 60 Hz: High Voltage Connection				
Rated Output (HP)		.17	Full Load Torque		0.5 LB-FT		
Volts		230/460	Start Configuration		direct on line		
Full Load Amps		1.2/.6	Breakdown Torque		2.5 LB-FT		
R.P.M.		1725	Pull-up Torque		2.6 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		2.9 LB-FT	
NEMA Design Code		-	KVA Code		-		
Starting Current		2.6 A		No-load Current			0.41 A
Service Factor (S.F.)		1.35	Line-line Res. @ 25°C		68.8 Ω		
NEMA Nom. Eff.		62	Power Factor		51		
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		26°C	
S.F. Amps		1.3/.65		Temp. Rise @ S.F. Load		32°C	

Load Characteristics 460 V, 60 Hz, 0.17 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	24	34	42	50	57	63	60
Efficiency	39.3	55.4	63.8	68.5	71.4	72.9	72.6
Speed	1781	1769	1755	1742	1727	1711	1721
Line amperes	0.42	0.43	0.44	0.46	0.49	0.52	0.5

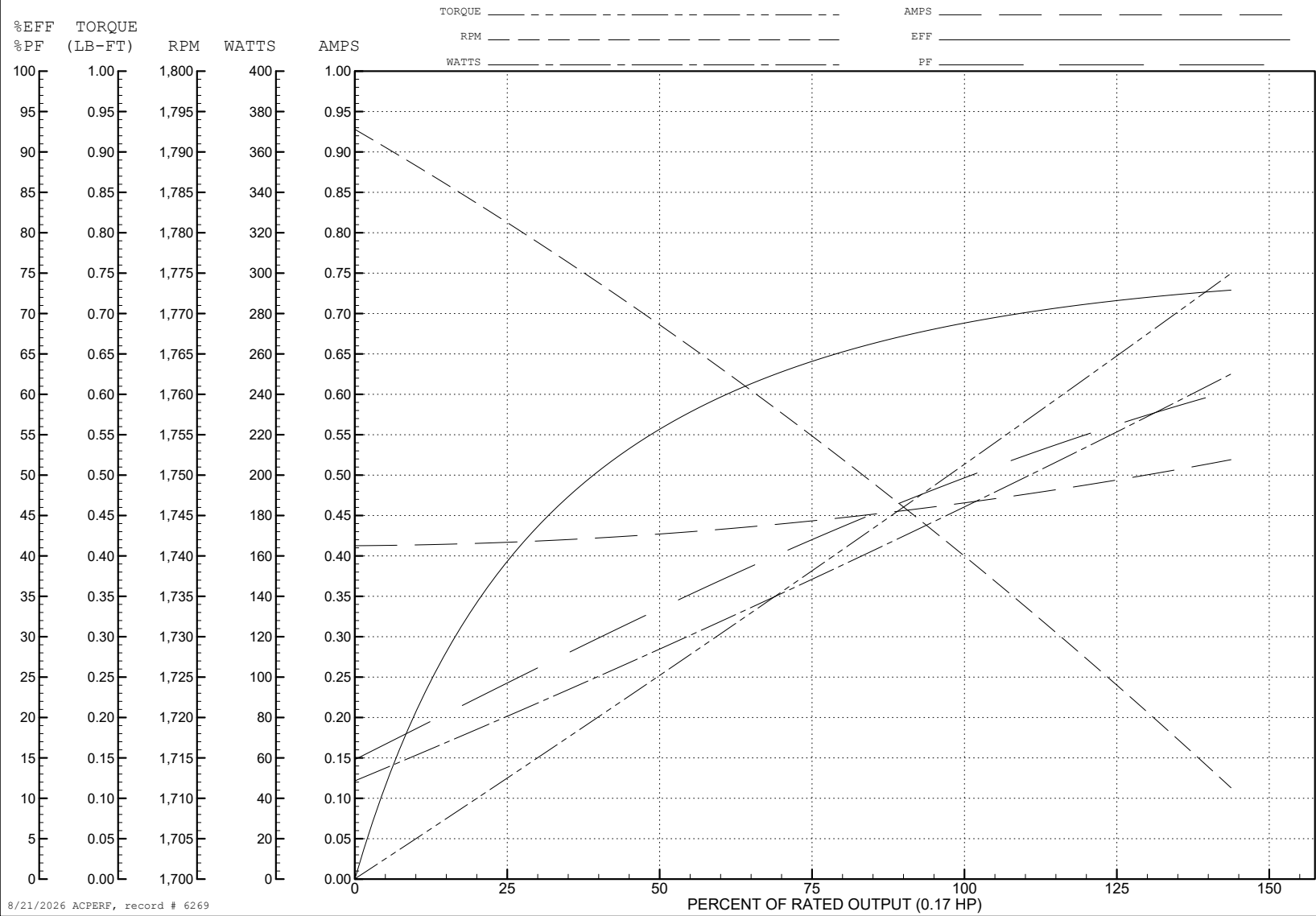
ABB Motors and Mechanical Inc.

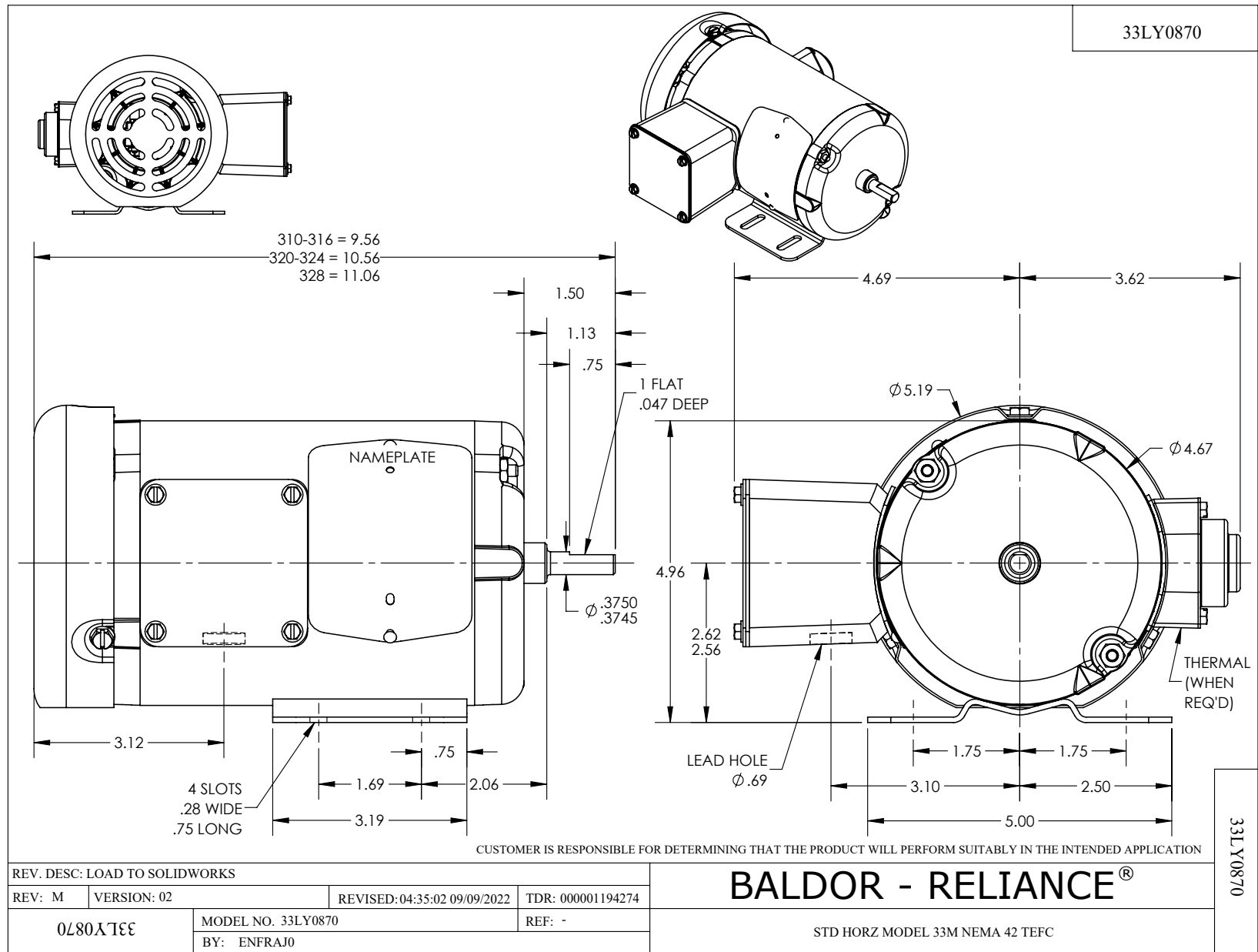
WINDING # 33WG0423

Typical performance - not guaranteed values.

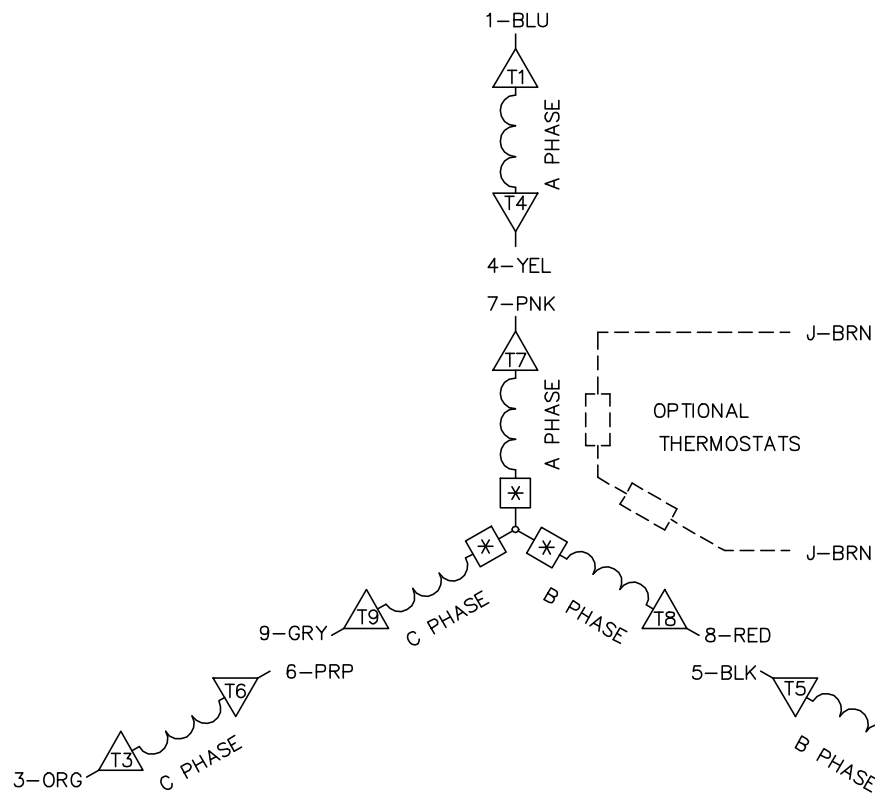
0.17 HP 3 PH 60 HZ 1725 RPM 460 V 3316M

TORQUES (LB-FT) : PO=2.5 PU=2.6 LR=2.9 LRA=2.6

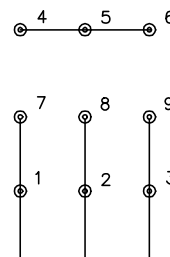




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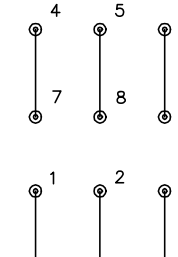


LOW VOLTAGE
(2Y)



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.
5. =MAGNET WIRE COIL END WITH I.D. NUMBER.
6. =MAGNET WIRE COIL END WITH I.D. SYMBOL.
7. SEE CW PRINT FOR NEST TO NEST CROSSOVER CONNECTIONS.

REV. DESC: ADD NEST NOTE

REV. LTR: C

VERSION: 03

TDR: 000000445597

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FILE: \CKA\00024\847

REVISED: 12:51:06 11/15/2007

MTL: -

BY: CKMICRO

BALDOR • DODGE • RELIANCE

3PH, DV, 9 LEADS, CK

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