ABB BALDOR RELIANCE

Customer information packet

MVM3458D

.25KW, 1725RPM, 3PH, 60HZ, D71D, 3320M, TEFC

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Specifications

Enclosure	TEFC
Frame	D71D
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.330 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	CSA
	UR
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	.700 A @ 460.0 V
	1.400 A @ 230.0 V
	1.700 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Feedback Signal	NONE
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AS
Type	AC
Mech. spec.	33E138
Base	
Status	PRD/A
Elec. spec.	33WG0675
Layout	33LYE138
Eff. date	10-24-2024
CD Diagram	CD0005A05
Poles	04
Leads	9#18
Proprietary	False
Created date	06-25-2007

High Voltage Full Load Amps	0.7 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	-
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3320M
Mounting Arrangement	F2
Number of Poles	4
Overall Length	10.74 IN
Power Factor	58
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	D-Flange
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.35
Shaft Diameter	0.552 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

NP1379L							
CAT.NO.	MVM3458D						
SPEC.	33E138-0675G1						
IEC FRAME	D71D	**K.W.**	.25 TE				
VOLTS	230/460						
AMP	1.4/.7						
RPM	1725	**I.P.**	54				
HZ	60	**PH**	3	**CL**	B		
SER.F.	1.35	**DES**	B	**CODE**	-		
NEMA-NOM-EFF	74	**PF**	58				
RATING	40C AMB-CONT						
CC							
DE	6203	**ODE**	6203				
SER. #							
	SFA 1.6/.8						

AC Induction Motor Performance Data
Record # 16144
Typical performance - not guaranteed values

Winding: 33WG0675-R001	**Type:** 3320M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			0.33	**Full Load Torque**	1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			1.4/0.7	**Breakdown Torque**	4.2 LB-FT
R.P.M.			1725	**Pull-up Torque**	3.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	4.4 LB-FT
NEMA Design Code	B	**KVA Code**	-	**Starting Current**	4 A
Service Factor (S.F.)			1.35	**No-load Current**	0.53 A
NEMA Nom. Eff.	74	**Power Factor**	58	**Line-line Res. @ 25ºC**	47.3 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	56°C
S.F. Amps			1.6/0.8	**Temp. Rise @ S.F. Load**	71°C

Load Characteristics 460 V, 60 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	29	42	53	62	69	75	72
Efficiency	49	64	71	74	75	75	75.4
Speed	1776	1758	1738	1717	1695	1670	1686
Line amperes	0.54	0.57	0.61	0.67	0.74	0.82	0.77

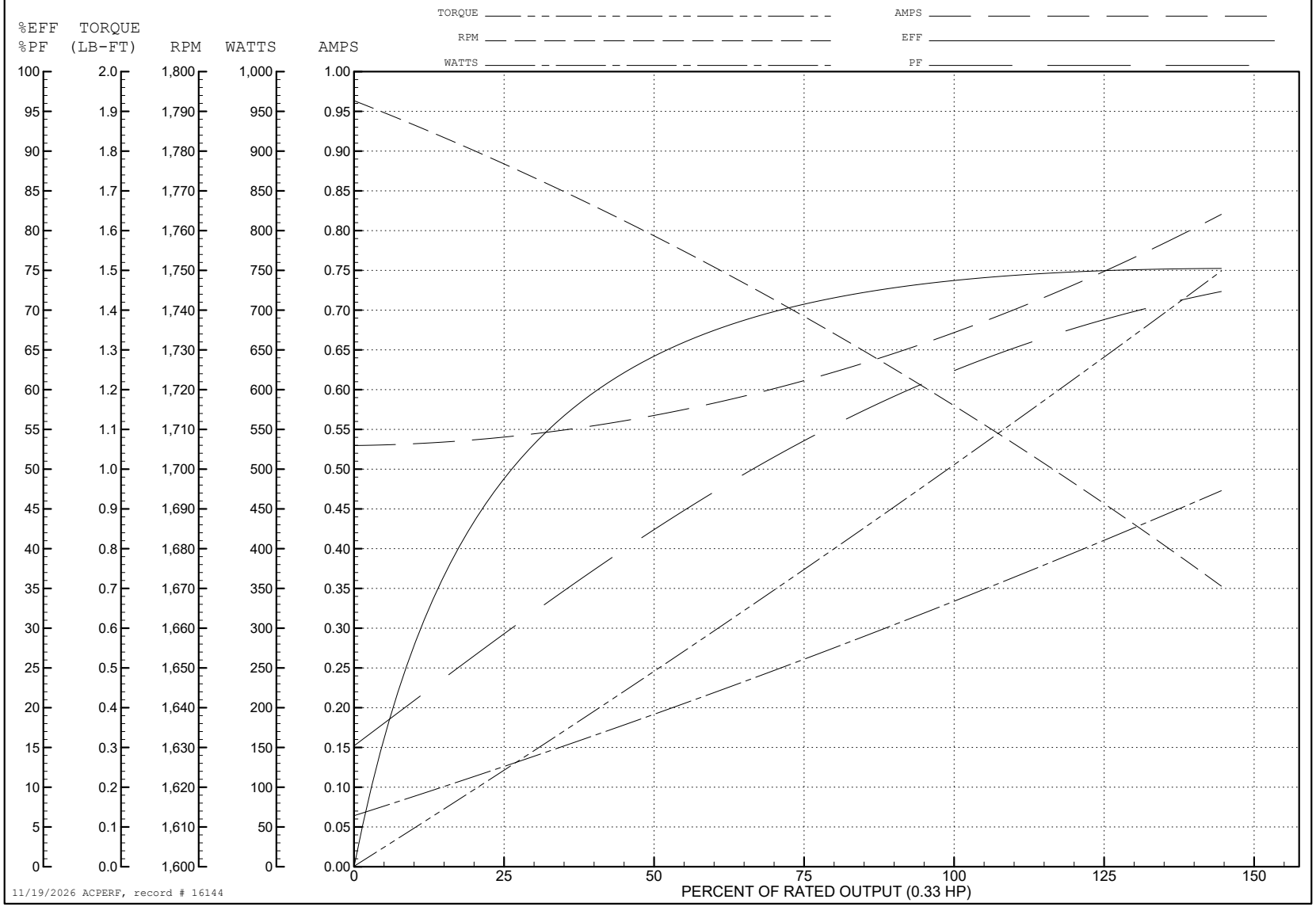
ABB Motors and Mechanical Inc.

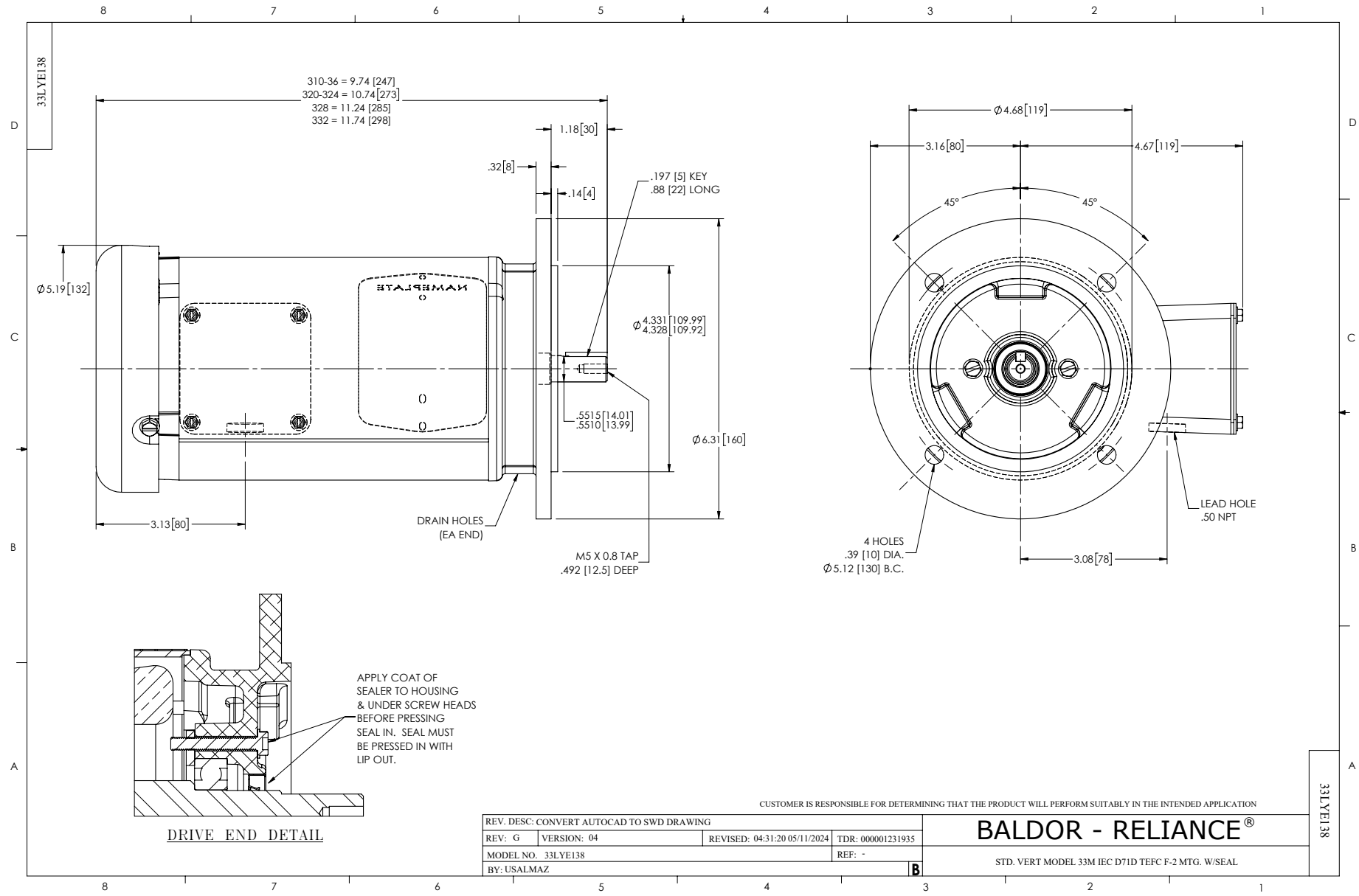
WINDING # 33WG0675

0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3320M

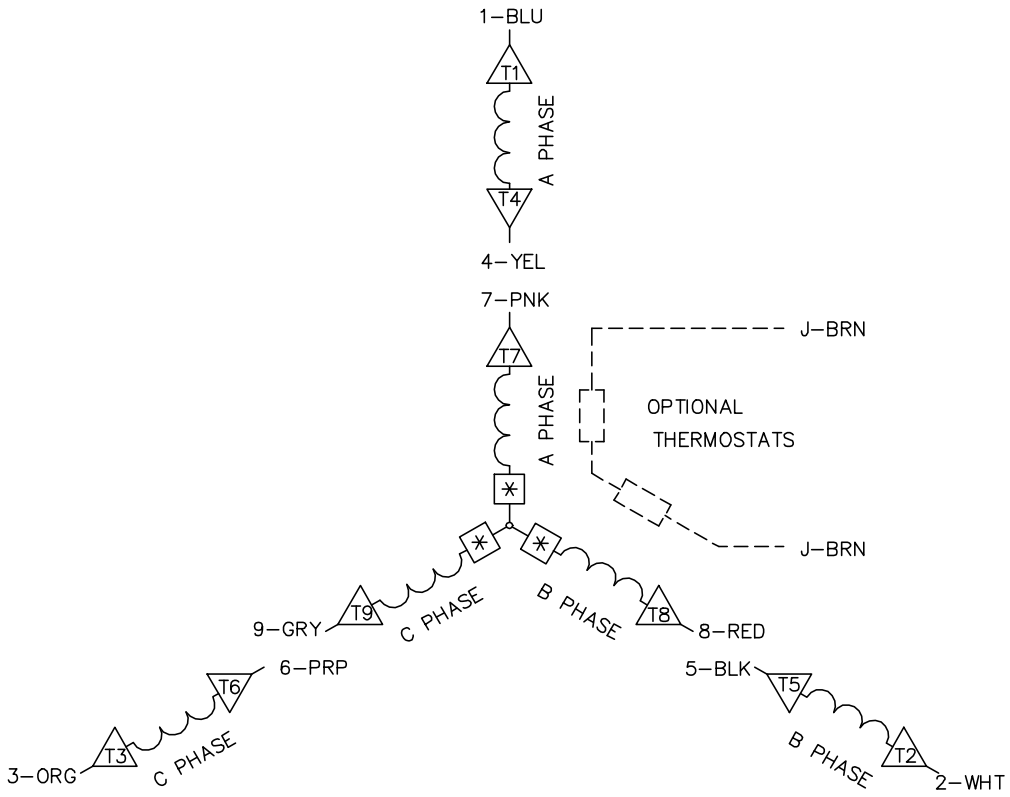
Typical performance - not guaranteed values.

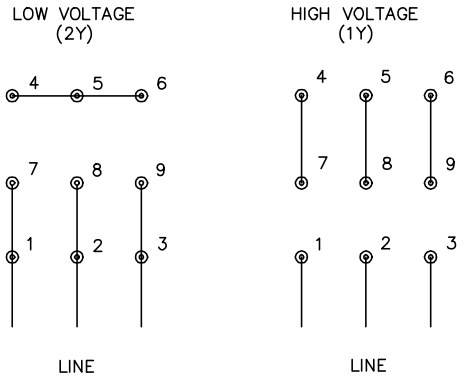
TORQUES(LB-FT): PO=4.2 PU=3.9 LR=4.4 LRA=4




33LYE138
310-36 = 9.74 [247]
320-324 = 10.74[273]
328 = 11.24 [285]
332 = 11.74 [298]
1.18[30]
.32[8]
.14[4]
.197 [5] KEY
.88 [22] LONG
Ø5.19[132]
Ø4.331[109.99]
Ø4.328[109.92]
.5515[14.01]
.5510[13.99]
Ø6.31[160]
3.13[80]
DRAIN HOLES
(EA END)
M5 X 0.8 TAP
.492 [12.5] DEEP
Ø4.68[119]
3.16[80]
4.67[119]
45°
45°
LEAD HOLE
.50 NPT
4 HOLES
.39 [10] DIA.
Ø5.12 [130] B.C.
3.08[78]
APPLY COAT OF
SEALER TO HOUSING
& UNDER SCREW HEADS
BEFORE PRESSING
SEAL IN. SEAL MUST
BE PRESSED IN WITH
LIP OUT.
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD TO SWD DRAWING
REV: G
VERSION: 04
REVISED: 04:31:20 05/11/2024
TDR: 000001231935
MODEL NO. 33LYE138
REF: -
BY: USALMAZ
B
BALDOR - RELIANCE®
STD. VERT MODEL 33M IEC D71D TEFC F-2 MTG. W/SEAL
33LYE138

CD0005A05





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.

CD0005A05

REV. DESC: ADD NEST NOTE			BALDOR • DODGE • RELIANCE
REV. LTR: C	VERSION: 03	TDR: 000000445597	
CD0005A05	FILE: \CKA\00024\847	REVISED: 12:51:06 11/15/2007	3PH, DV, 9 LEADS, CK
	MTL: –	BY: CKMICRO	