

ABB BALDOR RELIANCE III

Customer information packet

MVM3458D

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

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								

Parts List

Part number	Description	Quantity
SA010531	SA 33E138-0675G1	1.000 ea
RA006883	RA 33E138-0675G1	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
34CB3002A16	CB W/.50 N.P.T. @ 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
33EP2503A01	33 ENCL. EP MACH. 203 BRG IEC FF130	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
33FN3000	EXTERNAL FAN, PLASTIC	1.000 ea
HW1003A08	WASHER, #8 EX TH LK, ZN (F/S)	1.000 ea
33FH4000A01	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
HW2504D08	KEY, 5 MM X .875	1.000 ea
HA7000A10	KEY RETAINER 0.563 DIA SHAFTS	1.000 ea
HW4600A09	SEAL 0.656 X 1.124 X 0.250 DOUBLE SHIELD	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.013 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HA3100A48	THRUBOLT 10-32 X 7.188	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
NP1379L	ALUM IEC UL CC	1.000 ea
35PA1066	PKG GRP, PRINT PK1008A07	1.000 ea

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	
Line-line Res. @ 25°C		47.3 Ω				
NEMA Nom. Eff.		74	Power Factor		58	
Temp. Rise @ Rated Load		56°C				
Rating - Duty		40C AMB-CONT				
Temp. Rise @ S.F. Load		71°C				
S.F. Amps		1.6/0.8				

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

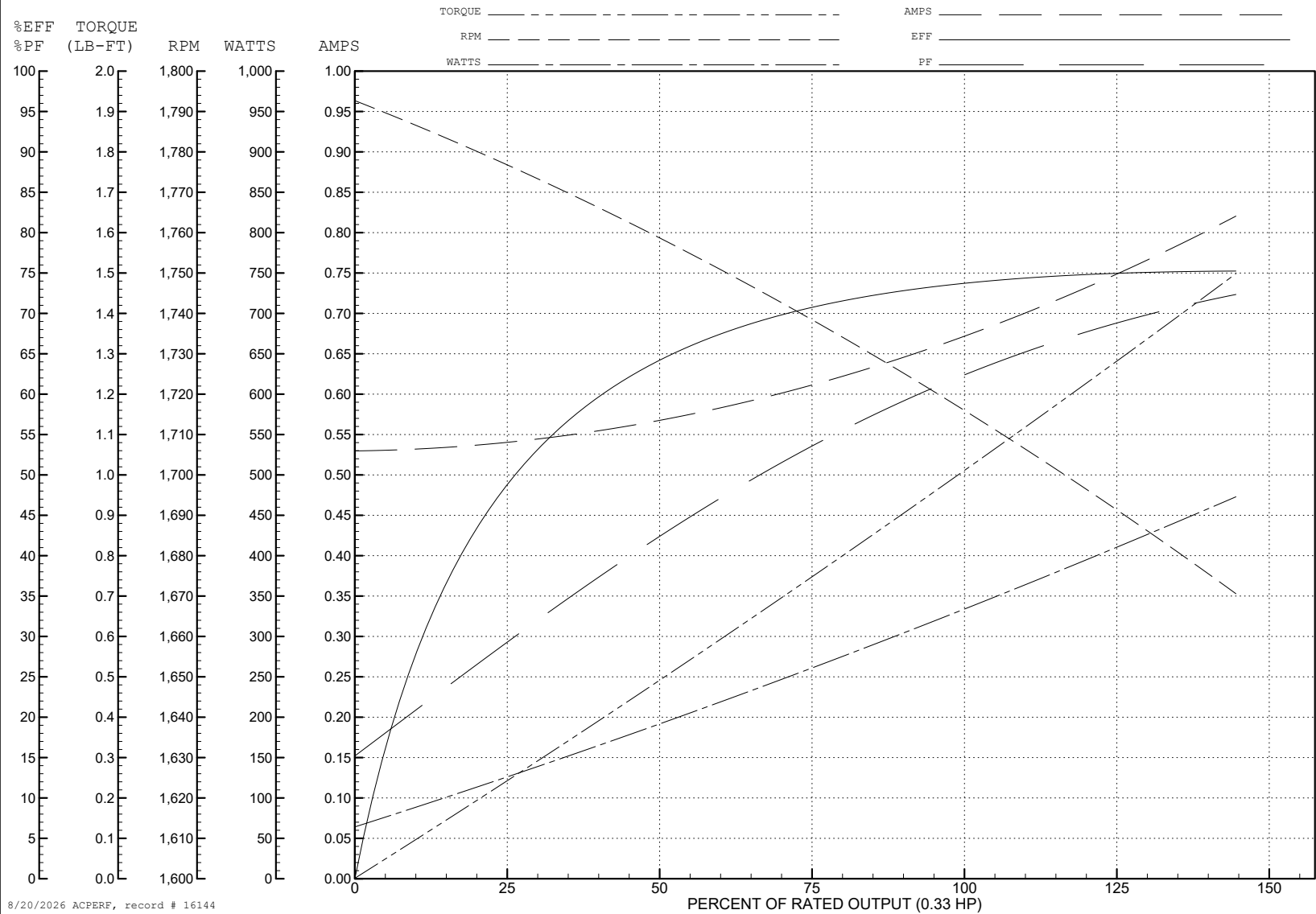
ABB Motors and Mechanical Inc.

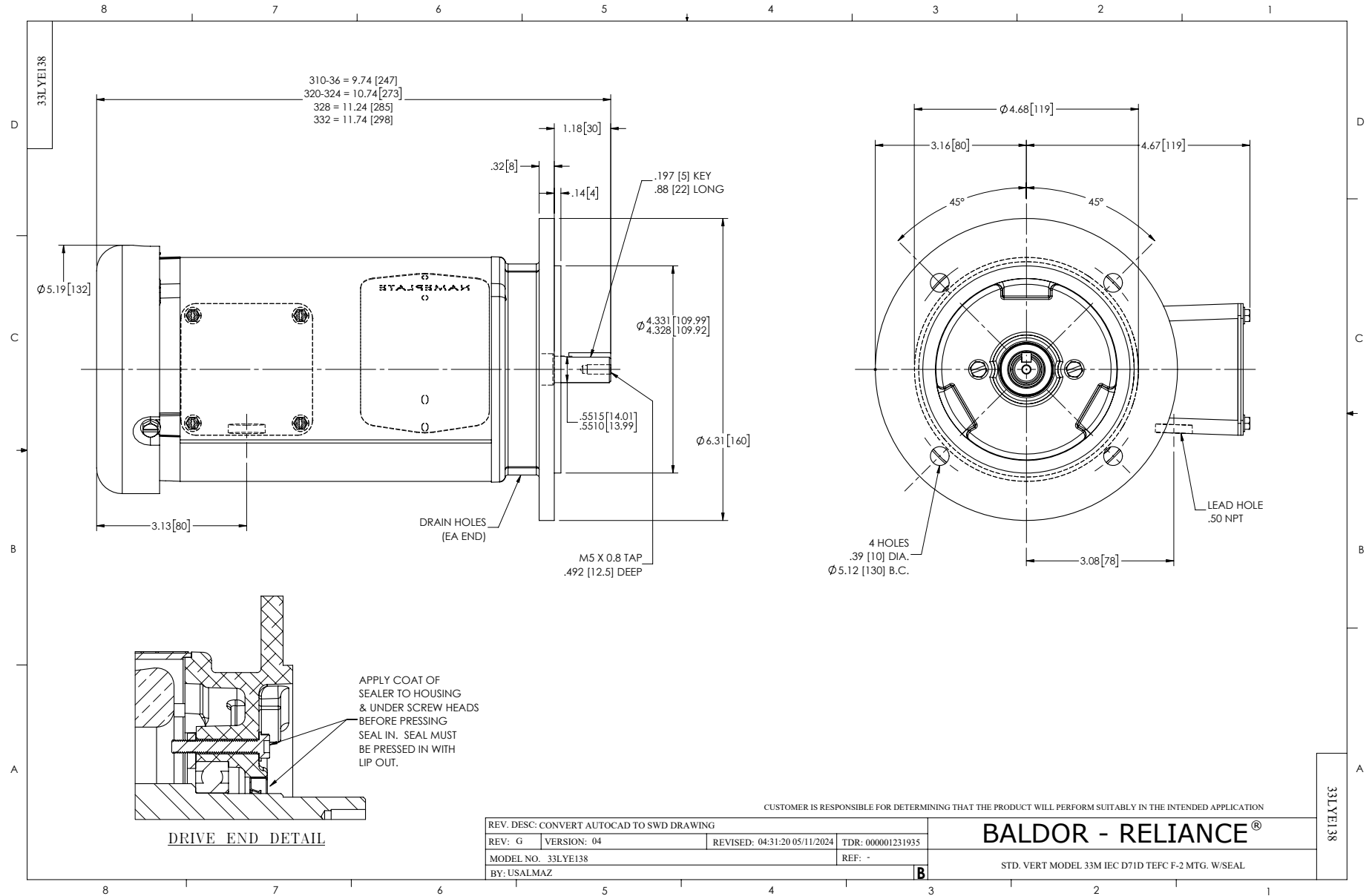
WINDING # 33WG0675

Typical performance - not guaranteed values.

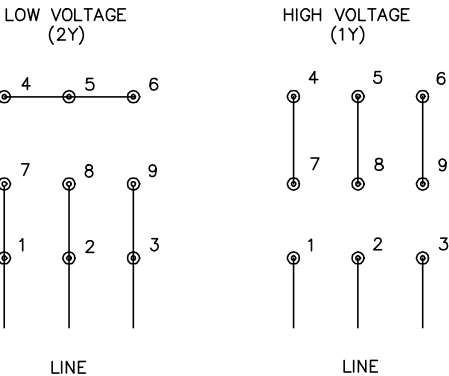
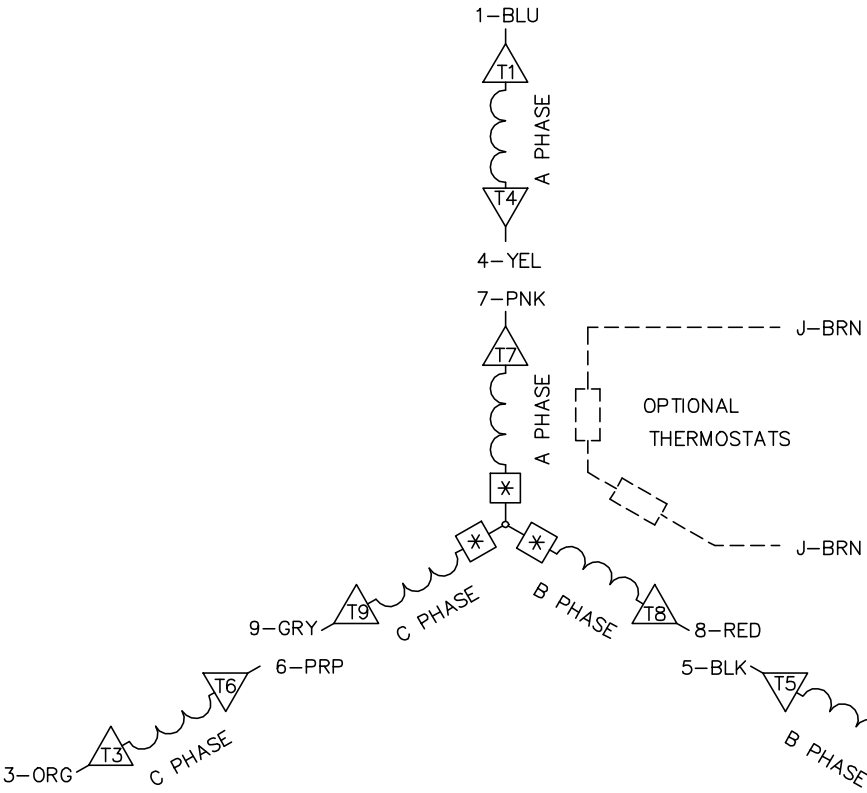
0.33 HP 3 PH 60 HZ 1725 RPM 460 V 3320M

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





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.

REV. DESC: ADD NEST NOTE		
REV. LTR: C	VERSION: 03	TDR: 000000445597
CD0005A05	FILE: \CKA\00024\847	REVISED: 12:51:06 11/15/2007
	MTL: -	BY: CKMICRO

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3PH, DV, 9 LEADS, CK

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