

ABB BALDOR RELIANCE III

Customer information packet

MVM3463C

.56KW, 3450RPM, 3PH, 60HZ, D71C, 3328M, TEFC

Specifications

Enclosure	TEFC
Frame	D71C
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	1.400 A @ 460.0 V 2.800 A @ 230.0 V 3.400 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
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	AM
Type	AC
Mech. spec.	33-1922
Base	
Status	PRD/A
Elec. spec.	33WGW274
Layout	33LY1922
Eff. date	10-24-2024
CD Diagram	CD0005A05
Poles	02
Leads	9#18
Proprietary	False
Created date	06-25-2007

High Voltage Full Load Amps	1.4 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L
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	3328M
Mounting Arrangement	F2
Number of Poles	2
Overall Length	11.24 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
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	3450 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.	MVM3463C									
SPEC.	33-1922W274									
IEC FRAME	D71C	K.W.		.56 TE						
VOLTS	230/460 ENCL TEFC									
AMP	2.8/1.4									
RPM	3450			I.P.		54				
HZ	60		PH		3	CL		B		
SER.F.	1.25		DES		B	CODE		L		
NEMA-NOM-EFF	75.5		PF		78					
RATING	40C AMB-CONT									
CC										
DE	6203	ODE		6203						
SER. #										
	SFA 3.2/1.6									

Parts List

Part number	Description	Quantity
SA007282	SA 33-1922W274	1.000 ea
RA003729	RA 33-1922W274	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
33EP1300A35	PU EP, ENCL FACE MTD IEC D71C FOR SEAL	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
HW4600A50	SEAL,#6806 C-R .669X1.25 X.25 SNG LIP NO	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
HA3100A37	THRUBOLT 10-32 X 8.500	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
34PA1002	PKG GRP, PRINT PK1001A01	1.000 ea

AC Induction Motor Performance Data

Record # 58394

Typical performance - not guaranteed values

Winding: 33WGW274-R001			Type: 3328M		Enclosure: TEFC		
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		.75		Full Load Torque		1.134 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		2.8/1.4		Breakdown Torque		6.7 LB-FT	
R.P.M.		3450		Pull-up Torque		4.4 LB-FT	
Hz	60	Phase	3	Locked-rotor Torque		5.9 LB-FT	
NEMA Design Code		B	KVA Code	L	Starting Current		10 A
Service Factor (S.F.)		1.25		No-load Current		0.66 A	
NEMA Nom. Eff.		75.5	Power Factor	78	Line-line Res. @ 25°C		16.4 Ω
Rating - Duty			40C AMB-CONT		Temp. Rise @ Rated Load		
S.F. Amps			3.2/1.6		Temp. Rise @ S.F. Load		

Load Characteristics 460 V, 60 Hz, 0.75 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	42	60	72	80	85	88	85
Efficiency	58.7	72.2	77.7	80.1	81.1	81.4	81.1
Speed	3565	3537	3507	3476	3444	3409	3444
Line amperes	0.71	0.81	0.94	1.1	1.28	1.48	1.28

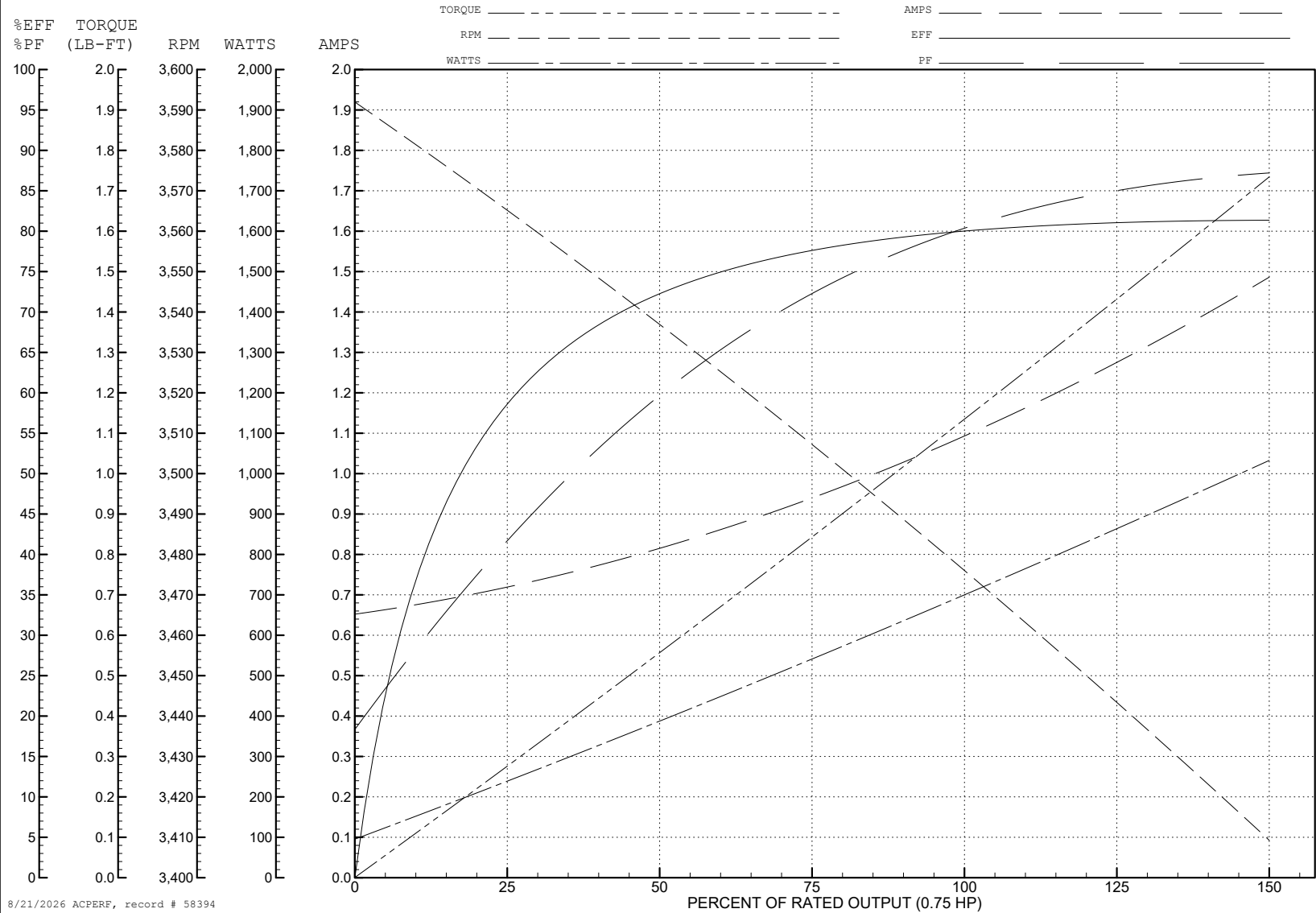
ABB Motors and Mechanical Inc.

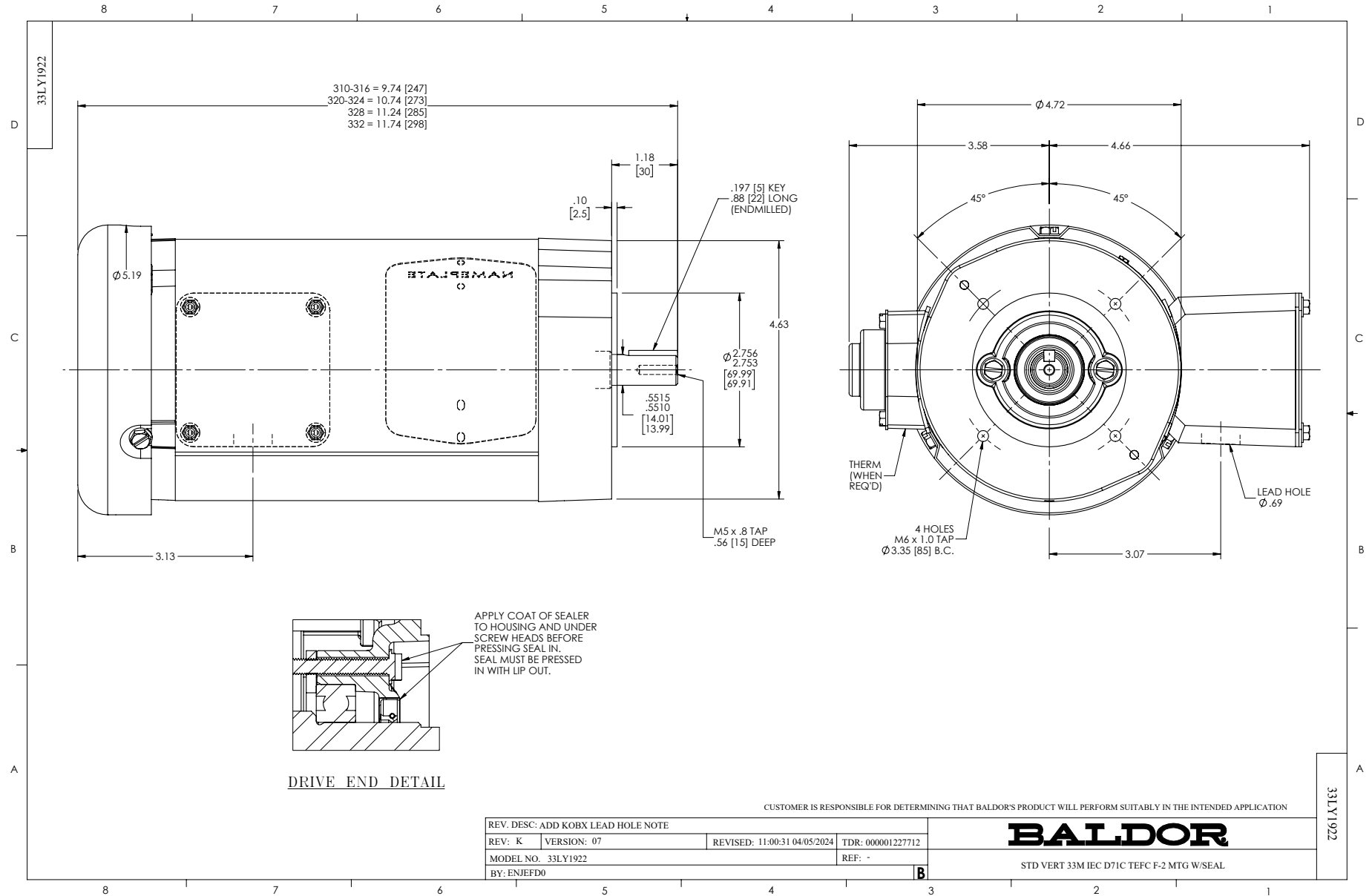
WINDING # 33WGW274

Typical performance - not guaranteed values.

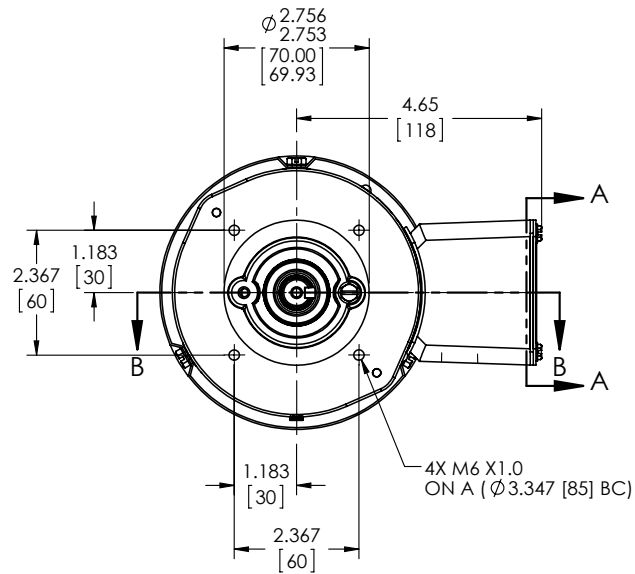
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3328M

TORQUES (LB-FT) : PO=6.7 PU=4.4 LR=5.9 LRA=10

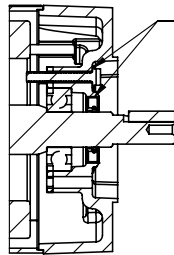
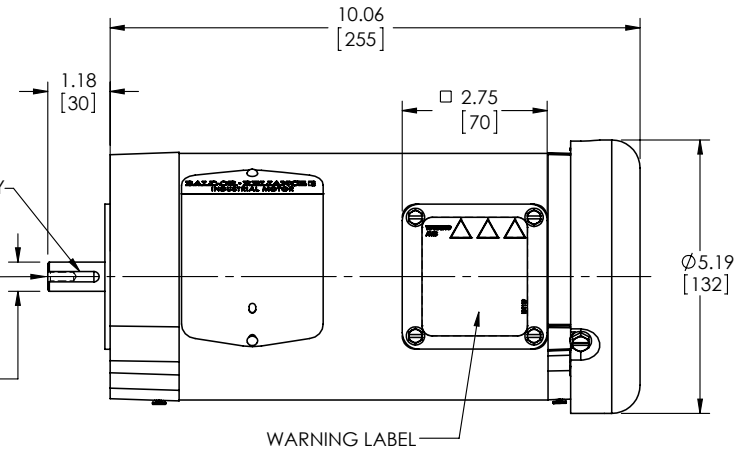




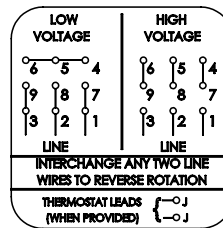
33-1922W274



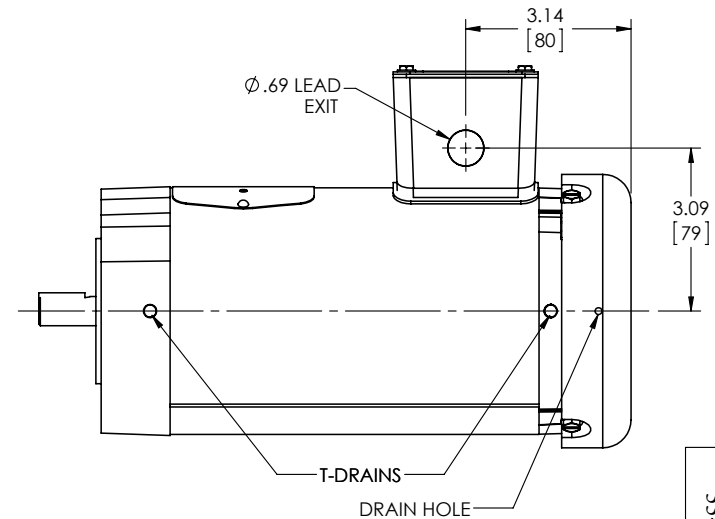
.197 [5] X .875 [22] KEY
M5 X 0.8
15MM (.59)
Ø.5515
.5510
[14.01]
[13.99]



APPLY COAT OF SEALER TO HOUSING AND UNDER SCREW HEADS BEFORE PRESSING SEAL IN. SEAL MUST BE PRESSED IN WITH LIP OUT.



SECTION A-A



SECTION B-B

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: NEW-REPLACES 33LY1922

REV: -

VERSION: 00

REVISED: 03:13:10 07/22/2016

TDR: 000000988767

33-1922W274

MODEL NO. 33-1922W274

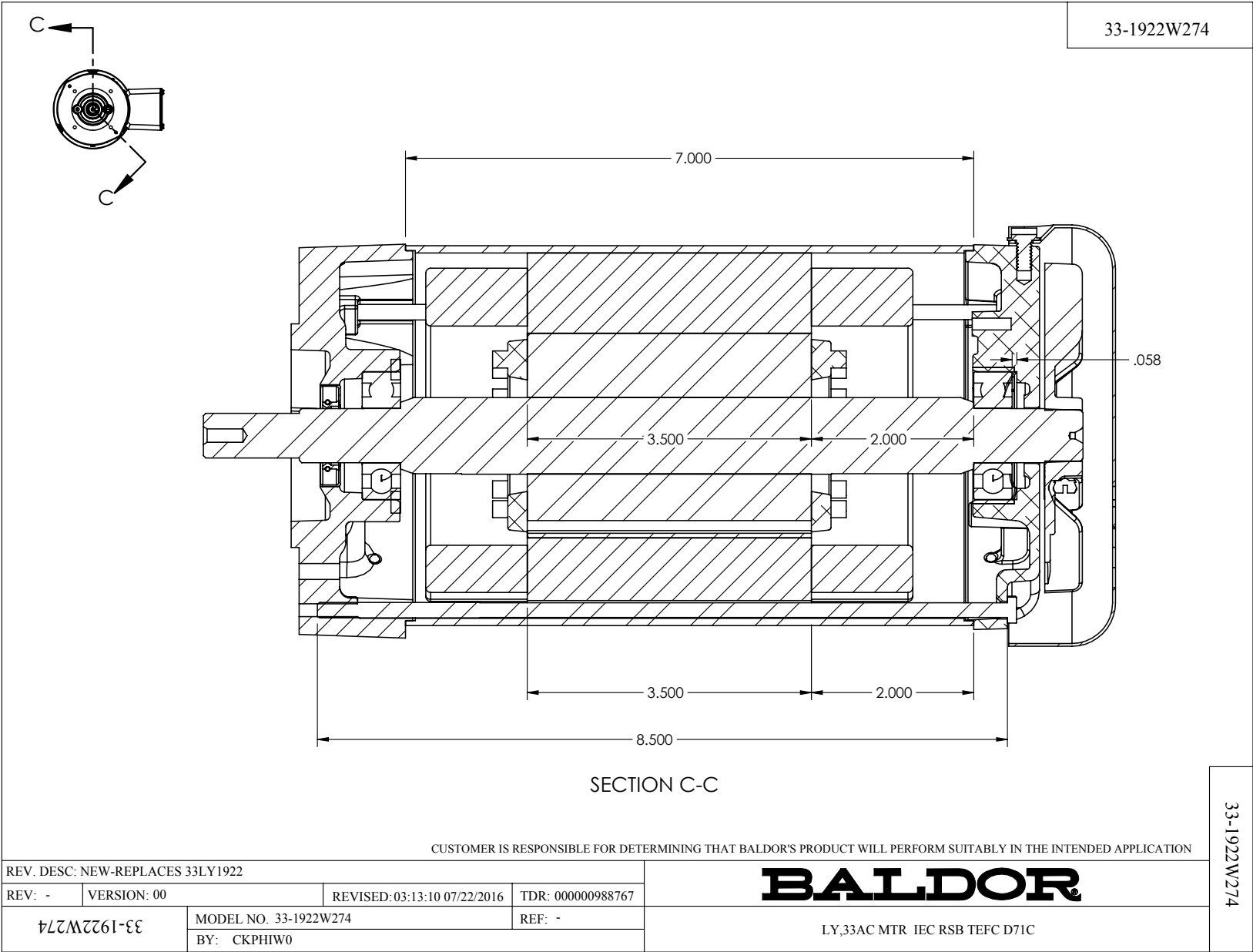
BY: CKPHIW0

REF: -

BALDOR

LY,33AC MTR IEC RSB TEFC D71C

33-1922W274



ITEM NO.	PART NUMBER	QTY.
1	33EP1300A35	1
2	BG6203C03	2
3	RB4003A01	1
4	HW4600A50	1
5	HA4067A01	2
6	33SH1085C01	1
7	33RC4128-00	1
8	33SA9200C16	1
9	NS2512A01	1
10	34GS1029A01	1
11	34CB3002C	1
12	51XB1016A07	2
13	11XW1032G06	1
14	34GS1031A01	1
15	34CB4517	1
16	51XT0832A07	4
17	33EP3100A01	1
18	HW5109A05	1
19	HA3100A37	2
20	51XN1032A16	1
21	33FN3000	1
22	12XN0832A16	1
23	HW1003A08	1
24	XY0832A02	1
25	33FH4000A01	1
26	51XB1016A06	3
27	HW2504D08	1
28	NP1379L	1
29	85XU0407A04	2
30	LC0005	1
31	LB1119	1

CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION

REV. DESC: NEW-REPLACES 33LY1922

REV: - VERSION: 00 REVISED: 03:13:10 07/22/2016 TDR: 000000988767

33-1922W274

MODEL NO. 33-1922W274

BY: CKPHIW0

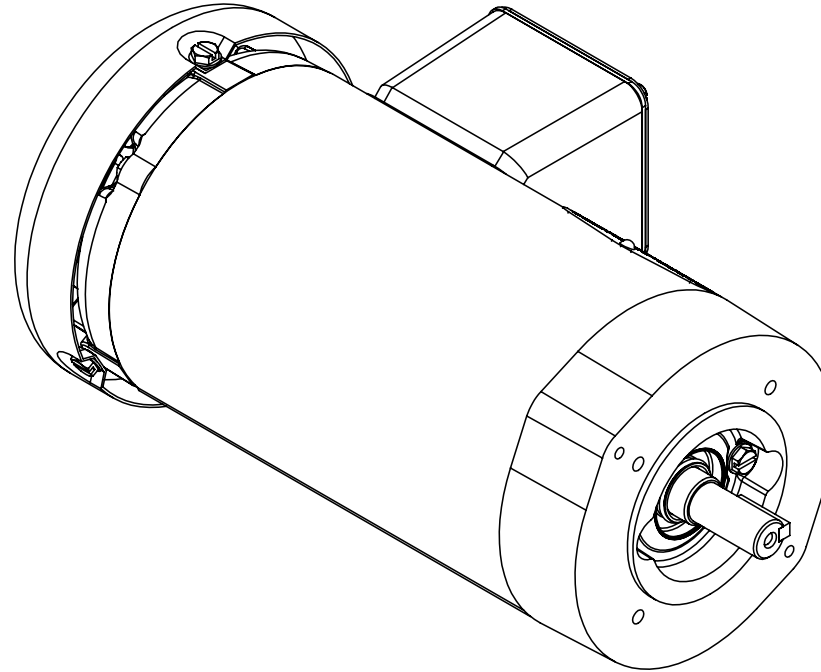
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BALDOR

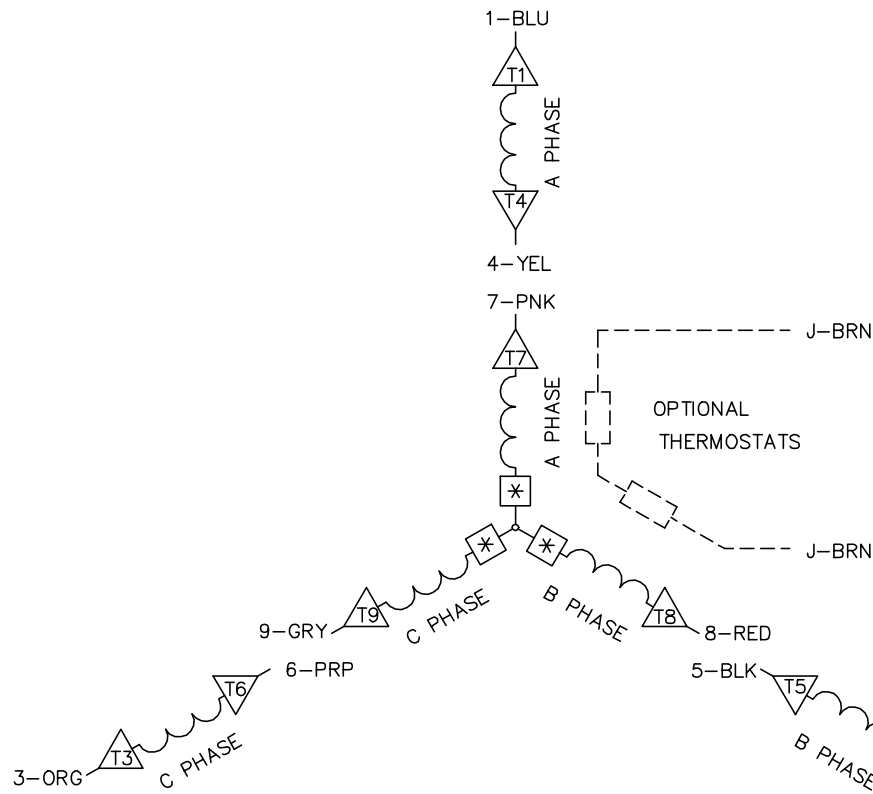
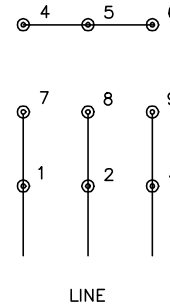
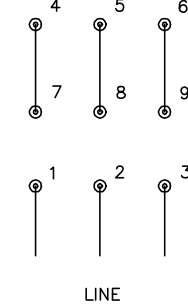
LY,33AC MTR IEC RSB TEFC D71C

33-1922W274

33-1922W274



CD0005A05


LOW VOLTAGE
(2Y)

HIGH VOLTAGE
(1Y)

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

CD0005A05