ABB BALDOR RELIANCE

Customer information packet

CM2333T-58

15HP, 1460RPM, 3PH, 50HZ, 254TC, 0760M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Iron
Frequency	50.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1500 RPM @ 50 HZ
Voltage @ Frequency	380.0 V @ 50 HZ
	415.0 V @ 50 HZ
Agency Approvals	UR
	CSA
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	22.000 A @ 380.0 V
	22.500 A @ 415.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	22.0 a

Part Detail

Revision	J
Type	AC
Mech. spec.	07K349
Base	
Status	PRD/A
Elec. spec.	07WGY251
Layout	07LYK349
Eff. date	05-06-2024
CD Diagram	CD0382
Poles	04
Leads	6#12
Proprietary	False
Created date	05-14-2013

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0760M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.32 IN
Power Factor	82
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1460 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	CM2333T-58								
SPEC.	07K349Y251G2								
HP	15								
VOLTS	380-415								
AMP	22-22.5								
RPM	1460								
FRAME	254TC	**HZ**	50			**PH**	3		
SER.F.	1.00	**CODE**	J	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	90.2	**PF**	82						
RATING	40C AMB-CONT								
CC									
DE	6309	**ODE**	6307						
ENCL	TEFC	**SN**							
	IP44								

AC Induction Motor Performance Data
Record # 50297
Typical performance - not guaranteed values

Winding: 07WGY251-R005	**Type:** 0760M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			15
Volts			380-415
Full Load Amps			22-22.5
R.P.M.			1460
Hz	50	**Phase**	3
NEMA Design Code	A	**KVA Code**	J
Service Factor (S.F.)			1
NEMA Nom. Eff.	90.2	**Power Factor**	82
Rating - Duty			40C AMB-CONT

415 V, 50 Hz: High Voltage Connection	
Full Load Torque	53.7 LB-FT
Start Configuration	direct on line
Breakdown Torque	207 LB-FT
Pull-up Torque	86.4 LB-FT
Locked-rotor Torque	135 LB-FT
Starting Current	165 A
No-load Current	9.95 A
Line-line Res. @ 25ºC	0.593 Ω
Temp. Rise @ Rated Load	79°C
Locked-rotor Power Factor	40.3
Rotor inertia	1.48 LB-FT2

Load Characteristics 415 V, 50 Hz, 15 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	40	60	71	77	80	82
Efficiency	85.7	90.7	91.2	90.2	89.1	87
Speed	1491	1483	1473	1463	1452	1438
Line amperes	11.2	14.3	17.9	22.3	27.1	32.7

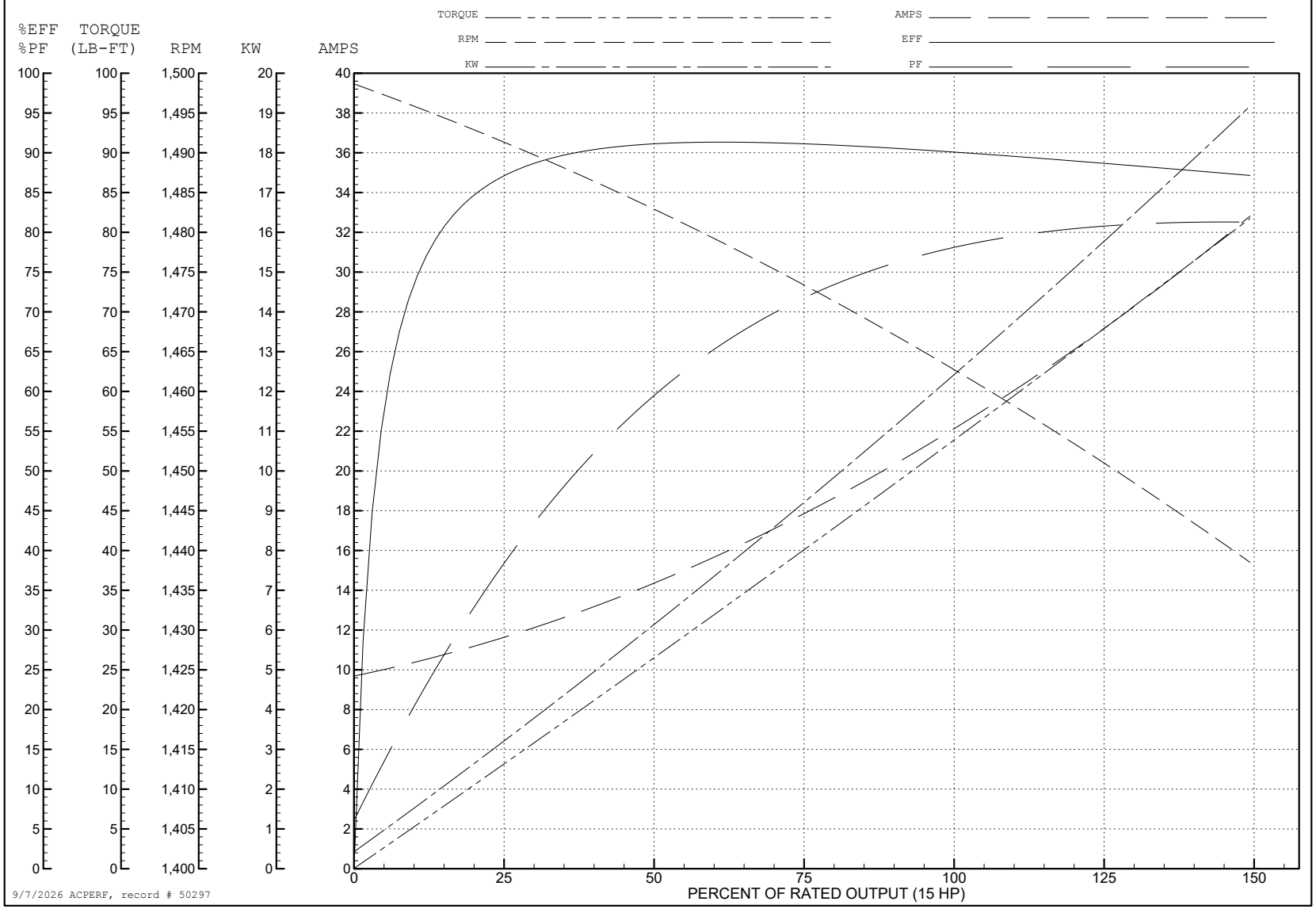
ABB Motors and Mechanical Inc.

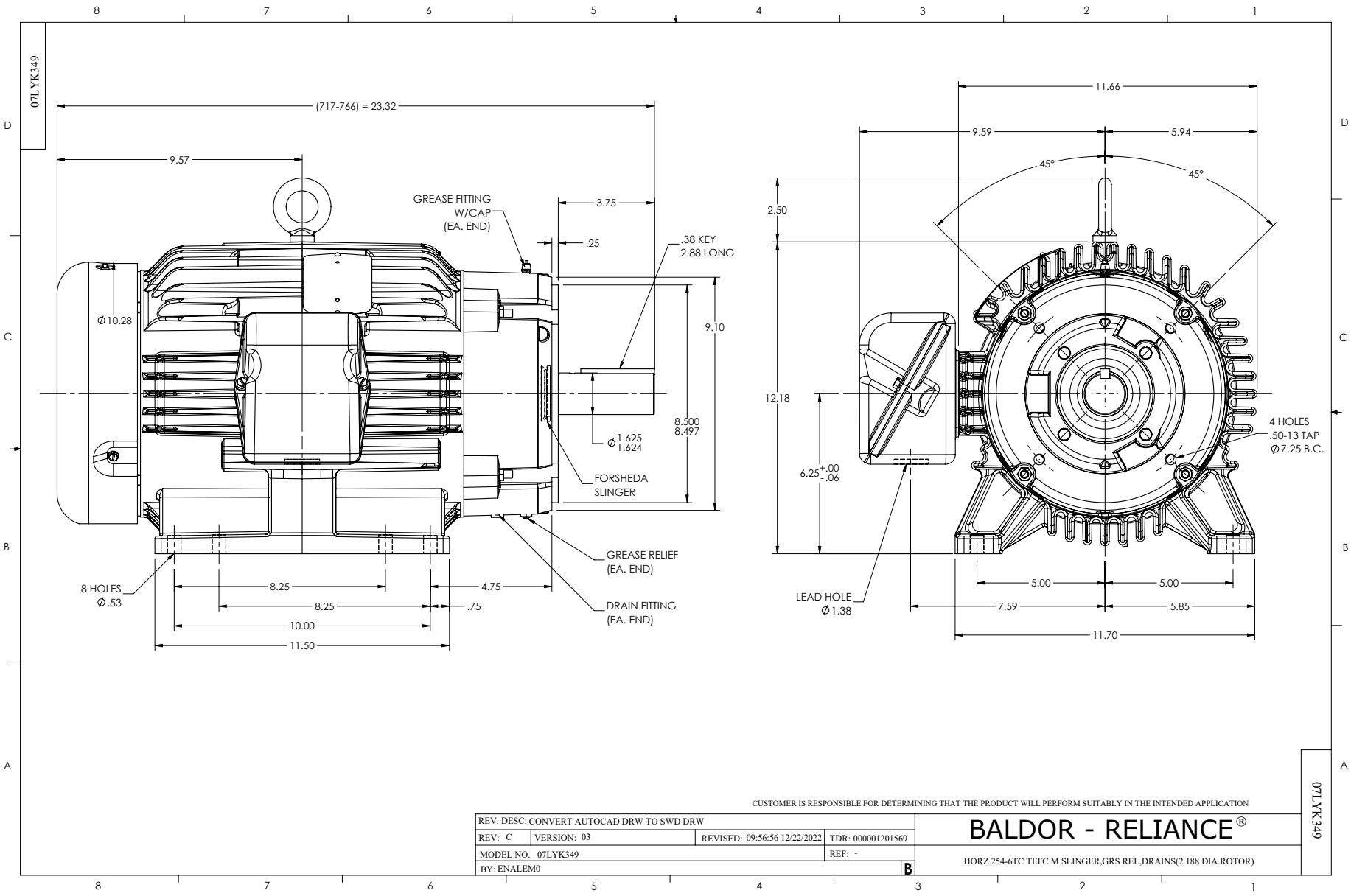
WINDING # 07WGY251

15 HP 3 PH 50 HZ 1460 RPM 415 V 0760M

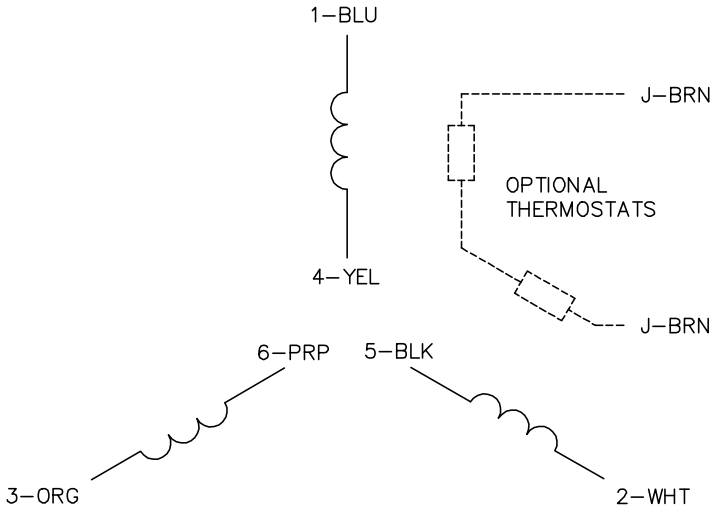
Typical performance - not guaranteed values.

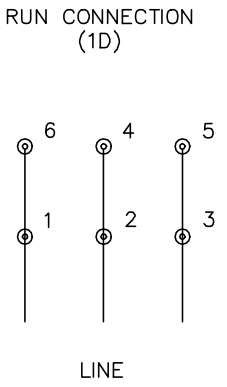
TORQUES(LB-FT): PO=207 PU=86.4 LR=135 LRA=165

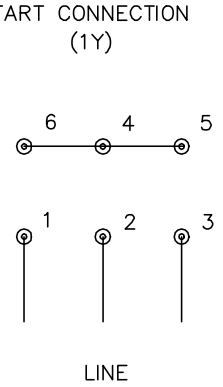



07LYK349
(717-766) = 23.32
9.57
GREASE FITTING W/CAP (EA. END)
3.75
.25
.38 KEY 2.88 LONG
Ø10.28
9.10
8.500 8.497
Ø1.625 1.624
FORSHEDA SLINGER
GREASE RELIEF (EA. END)
DRAIN FITTING (EA. END)
8 HOLES Ø.53
8.25
8.25
10.00
11.50
4.75
.75
11.66
9.59
5.94
45°
45°
2.50
12.18
6.25 +.00 -.06
4 HOLES .50-13 TAP Ø7.25 B.C.
LEAD HOLE Ø1.38
5.00
5.00
7.59
5.85
11.70
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: C
VERSION: 03
REVISED: 09:56:56 12/22/2022
TDR: 000001201569
MODEL NO. 07LYK349
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 254-6TC TEFC M SLINGER,GRS REL,DRAINS(2.188 DIA.ROTOR)
07LYK349

CD0382







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. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

SH 1 of 1