

ABB BALDOR RELIANCE III

Customer information packet

CM2333T-58

15HP, 1460RPM, 3PH, 50HZ, 254TC, 0760M, TEFC, F

Class - None

Division - Not Applicable

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				415 V, 50 Hz: High Voltage Connection				
Rated Output (HP)		15		Full Load Torque		53.7 LB-FT		
Volts		380-415		Start Configuration		direct on line		
Full Load Amps		22-22.5		Breakdown Torque		207 LB-FT		
R.P.M.		1460		Pull-up Torque		86.4 LB-FT		
Hz	50	Phase	3	Locked-rotor Torque		135 LB-FT		
NEMA Design Code		A	KVA Code	J	Starting Current		165 A	
Service Factor (S.F.)		1		No-load Current		9.95 A		
NEMA Nom. Eff.		90.2	Power Factor	82	Line-line Res. @ 25°C		0.593 Ω	
Rating - Duty		40C		AMB-CONT		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

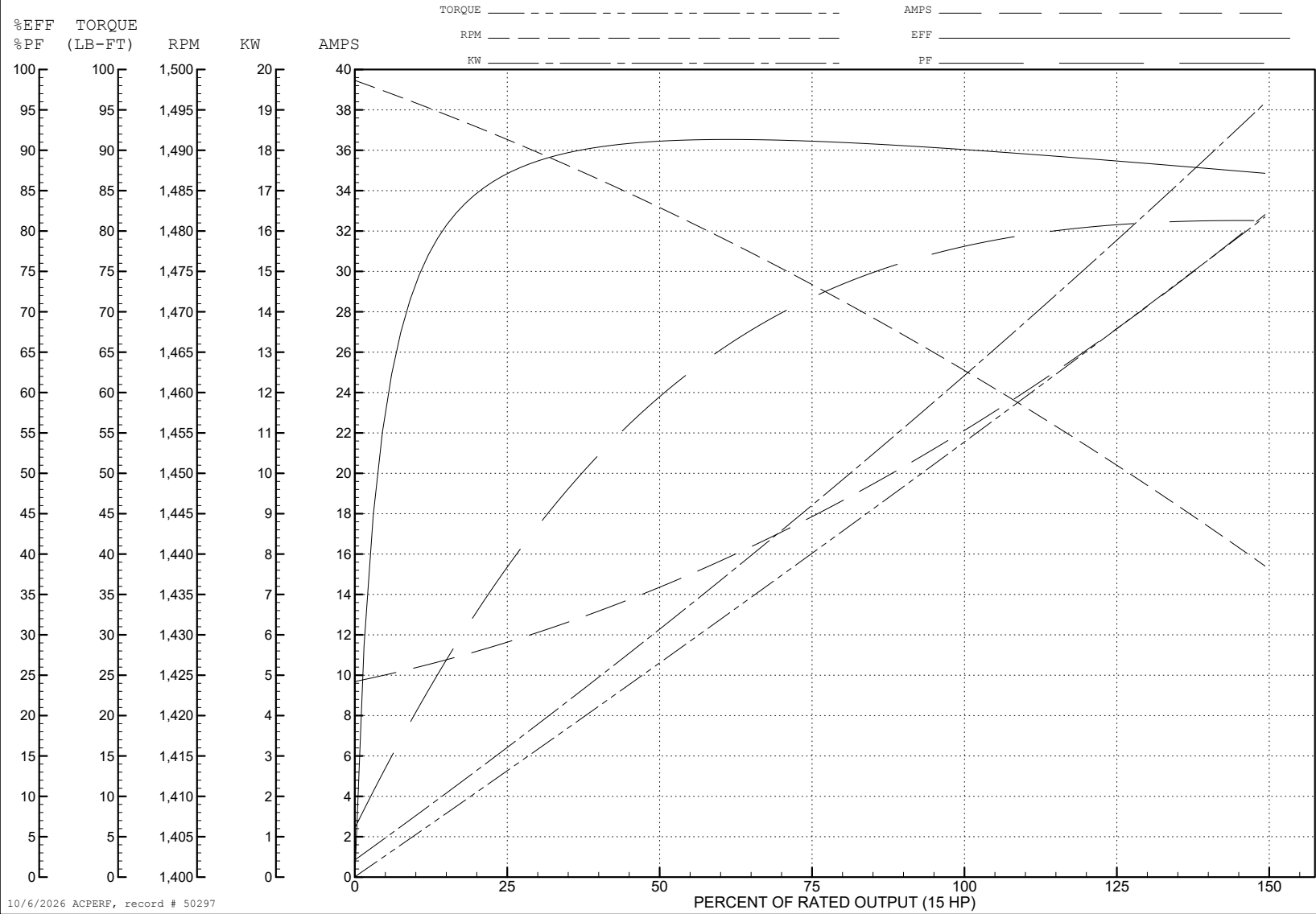
ABB Motors and Mechanical Inc.

WINDING # 07WGY251

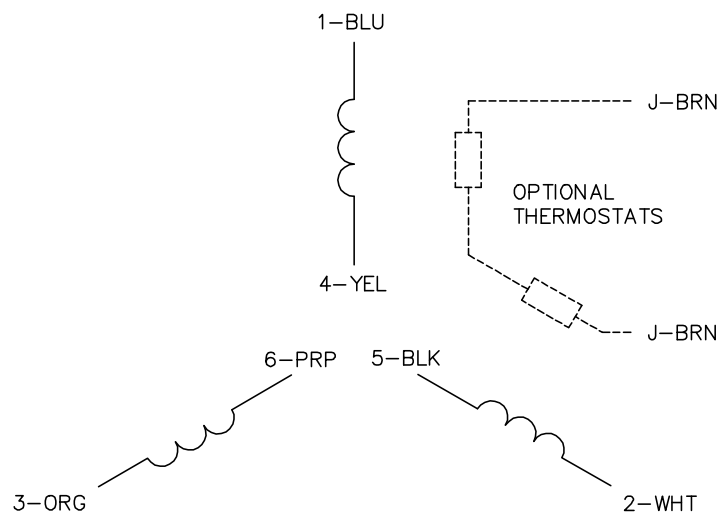
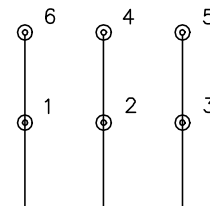
Typical performance - not guaranteed values.

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

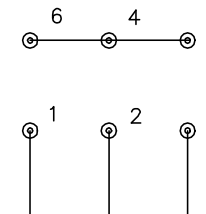
TORQUES (LB-FT): PO=207 PU=86.4 LR=135 LRA=165



CD0382


 RUN CONNECTION
(1D)


LINE

 START CONNECTION
(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. FOR ACROSS-THE-LINE STARTING, USE 'RUN' CONNECTION.

REV. DESC: ADD CLASS CONN00000007

REV. LTR: F

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\243

REVISED: 09:05:32 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

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

SH 1 of 1

CD0382