

ABB BALDOR RELIANCE III

Customer information packet

IDCSWDM3714T

10HP, 1770RPM, 3PH, 60HZ, 215TC, 3756M, TEFC, F

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	215TC
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ 460.0 V @ 60 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	12.500 A @ 460.0 V 25.000 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	12.5 a

Part Detail

Revision	Z
Type	AC
Mech. spec.	37H885
Base	
Status	PRD/A
Elec. spec.	37WGT857
Layout	37LYH885
Eff. date	06-24-2021
CD Diagram	CD0180
Poles	04
Leads	9#14
Proprietary	False
Created date	10-25-2006

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	6000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3756M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	21.31 IN
Power Factor	81
Product Family	Wash Down Paint Free
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1608L									
CAT NO	IDCSWDM3714T								
SPEC.	37H885T857G1								
FRAME	215TC			HP	10 TE				
VOLTS	230/460								
MAG CUR	11/5.5			FLA			25/12.5		
RPM	1770			RPM MAX			6000		
HZ	60		PH	3		CLASS		H	
SER.F.	1.00		DES	B		SL HZ		1	
NEMA-NOM-EFF	92.4		WK2		1.38				
BLWR V	PH		HZ		A				
RATING	40C AMB-CONT								
DE BRG	6307		ODE BRG			6206			
CC	010A	SN							



AC Induction Motor Performance Data
 Record # 37139
 Typical performance - not guaranteed values

Winding: 37WGT857	Type: 3756M	Enclosure: TEFC
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Nameplate Data				General Characteristics at 460 V, 60 Hz: High Volt Connection	
Rated Output (HP)	10			Full Load Torque	29.9 LB-FT
Volts	230/460			Start Configuration	DOL
Full Load Amps	25/12.5			Break Down Torque	102 LB-FT
R.P.M.	1770			Pull-Up Torque	53.6 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	74.2 LB-FT
NEMA Design Code	B	KVA Code	K	Starting Current	105 Amps
Service Factor	1			No-load Current	5.44 Amps
NEMA Nom. Eff.	92.4	P.F.	81	Line-line Res. @ 25°C.	0.799 Ohms
Rating - Duty	40C AMB-CONT			Temp. Rise @ Rated Load	76°C
S.F. Amps				Temp. Rise @ S.F. Load	

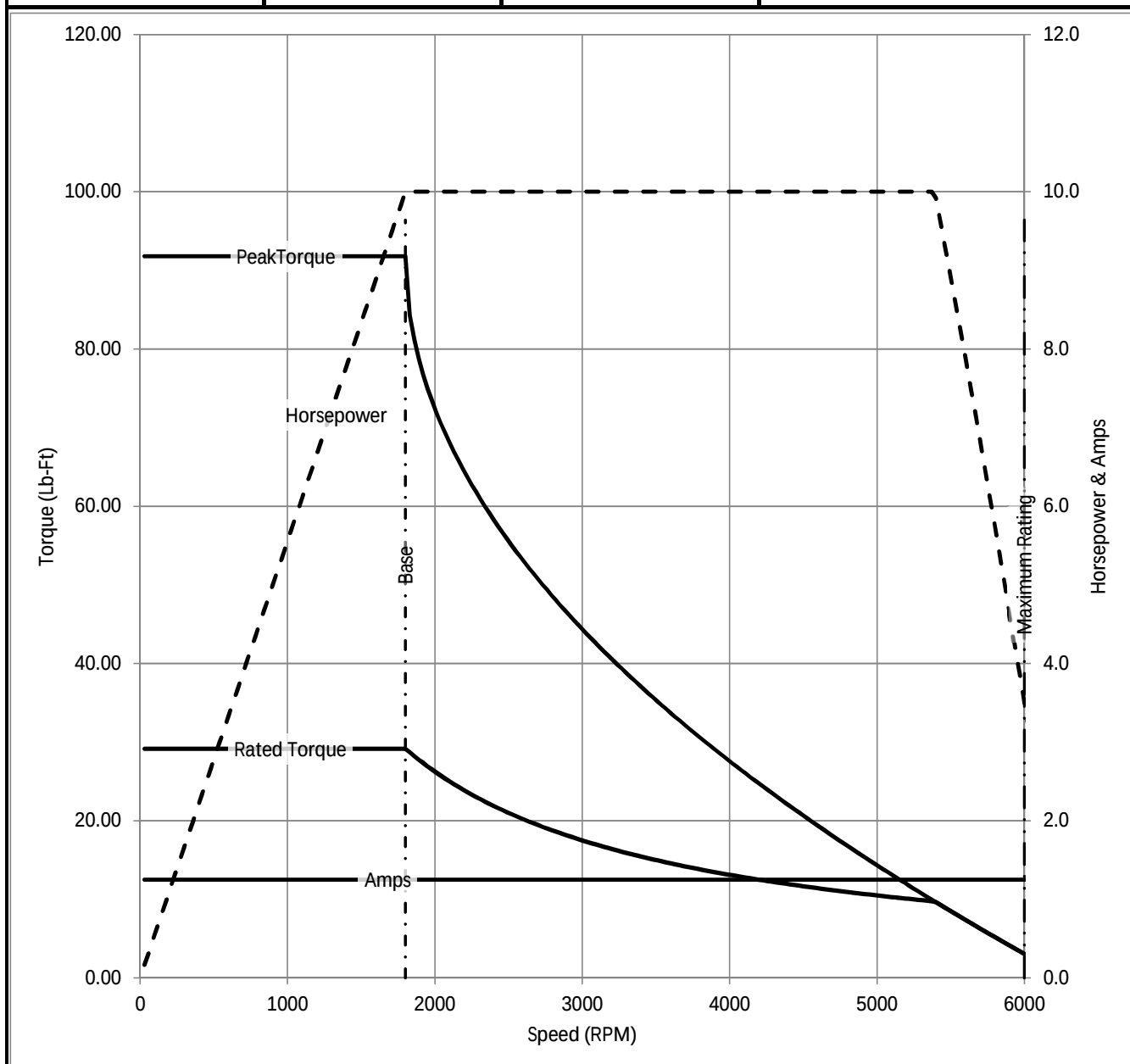
Load Characteristics at 460 Volts, 60 Hz, 10 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	43	65	76	81	83	84	
Efficiency	88	92.6	93.3	93	92.4	91.5	
Speed	1793	1786	1778	1770	1762	1752	
Line Amperes	6.18	7.79	10	12.5	15.3	18.3	

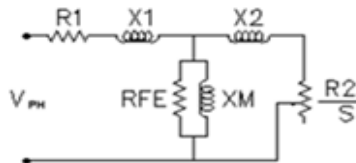
Baldor Electric Company Fort Smith, Arkansas



Catalog	IDCSWDM3714T	NP VOLTS	230/460	ENCLOSURE	TEFC	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
FRAME	215TC	NP AMPS	25/12.5	Base Volts	460	R1	0.423	X1	1.876
HP	10 HP	DUTY	Cont	Base AMPS	12.5	R2	0.300	X2	1.587
BASE SPEED	1800	MAX SAFE RPM	6000	Slip Hz	1.00			XM	44.849
PHASE/HZ	3/60	AMB ⁰ C/INSUL	40/H	WK ² (lb-ft ²)	1.38				



Remarks: Calculated Data


BALDOR
A MEMBER OF THE ABB GROUP

DR BY ENR
CK BY
APP BY ENR
DATE 3/6/2013

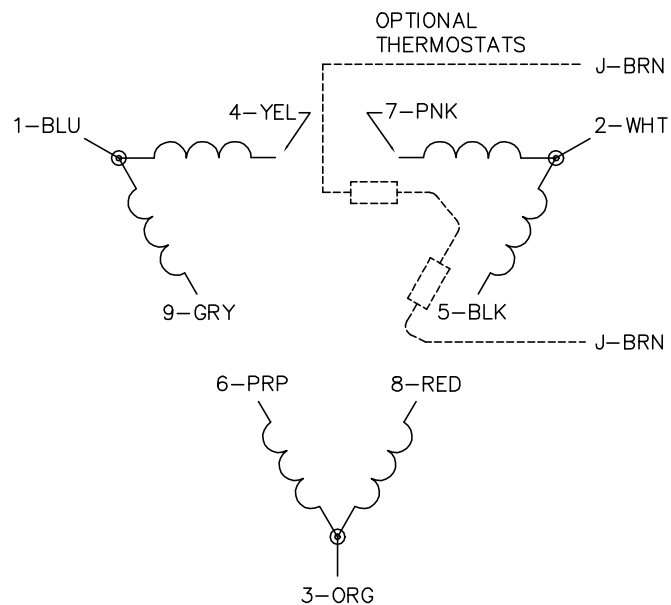
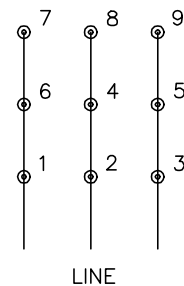
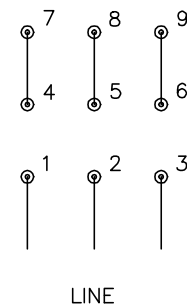
A-C MOTOR
PERFORMANCE CURVES

37H885T857G1

ISSUE DATE 3/6/2013



CD0180


LOW VOLTAGE
(2D)

HIGH VOLTAGE
(1D)

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.

CD0180

REV. DESC: ADD CLASS CONN00000007

REV. LTR: D

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\148

REVISED: 10: 25: 29 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1