

ABB BALDOR RELIANCE III

Customer information packet

IDNM2334T

20HP, 1780RPM, 3PH, 60HZ, 284T, 1056M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
Frame	284T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	20.000 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	26.000 A @ 460.0 V 52.000 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Encoder/Feedback Device
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	26.0 a

Part Detail

Revision	AF
Type	AC
Mech. spec.	10F681
Base	
Status	PRD/A
Elec. spec.	10GW586
Layout	10LYF681
Eff. date	08-18-2025
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	01-01-0001

Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	4000 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.36 IN
Power Factor	77
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1780 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1163L									
CAT NO	IDNM2334T								
SPEC.	10F681W586G1								
FRAME	284T			HP	20 TE				
VOLTS	230/460								
MAG CUR	29/14.5			FLA		52/26			
RPM	1780			RPM MAX		4000			
HZ	60		PH	3		CLASS		H	
SER.F.	1.00		DES	A		SL HZ		0.67	
NEMA-NOM-EFF	93		WK2		4.46				
BLWR V		PH		HZ			A		
RATING	40C AMB-CONT								
DE BRG	6311		ODE BRG			6309			
CC	010A	SN							
	1000:1 CT, 1000:1 VT								

ABB BALDOR/460 RELIANCE III		CUSTOMER INFORMATION PACKET		MAX SAFE RPM 2700 Base Volt 460		WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C) R1 0.131 X1 0.594	
HP 20 HP		NL AMPS 14.50		Slips(HZ) 0.53		R2 0.644 X2 0.478	
BASE SPEED 1784		WK2 (LB-FT2) 4.440		R2B 0.094 X2B 0.811		R2E 0.027 XM 17.600	
PHASE/HZ 3/60							

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1784	20.3	59.8	460	60	26.1
Max Speed	2676	20.3	39.8	460	90	23.5
Min Speed	0	0.0	59.8	13.24	0.53	26.1

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	460	60	14.5
1/4	1796	5.1	15.0	460	60	15.6
1/2	1792	10.2	30.0	460	60	18.2
3/4	1788	15.3	44.8	460	60	21.7
Full Load	1784	20.3	59.8	460	60	26.1
O/L	1765	40.7	121.0	460	60	47.5

Blower Data	Volts	Ph/Hz	FL Amps	LR Amps	Frame	CFM

Remarks: Calculated Data
Vector PWM Inverter Duty

BALDOR
A MEMBER OF THE ABB GROUP

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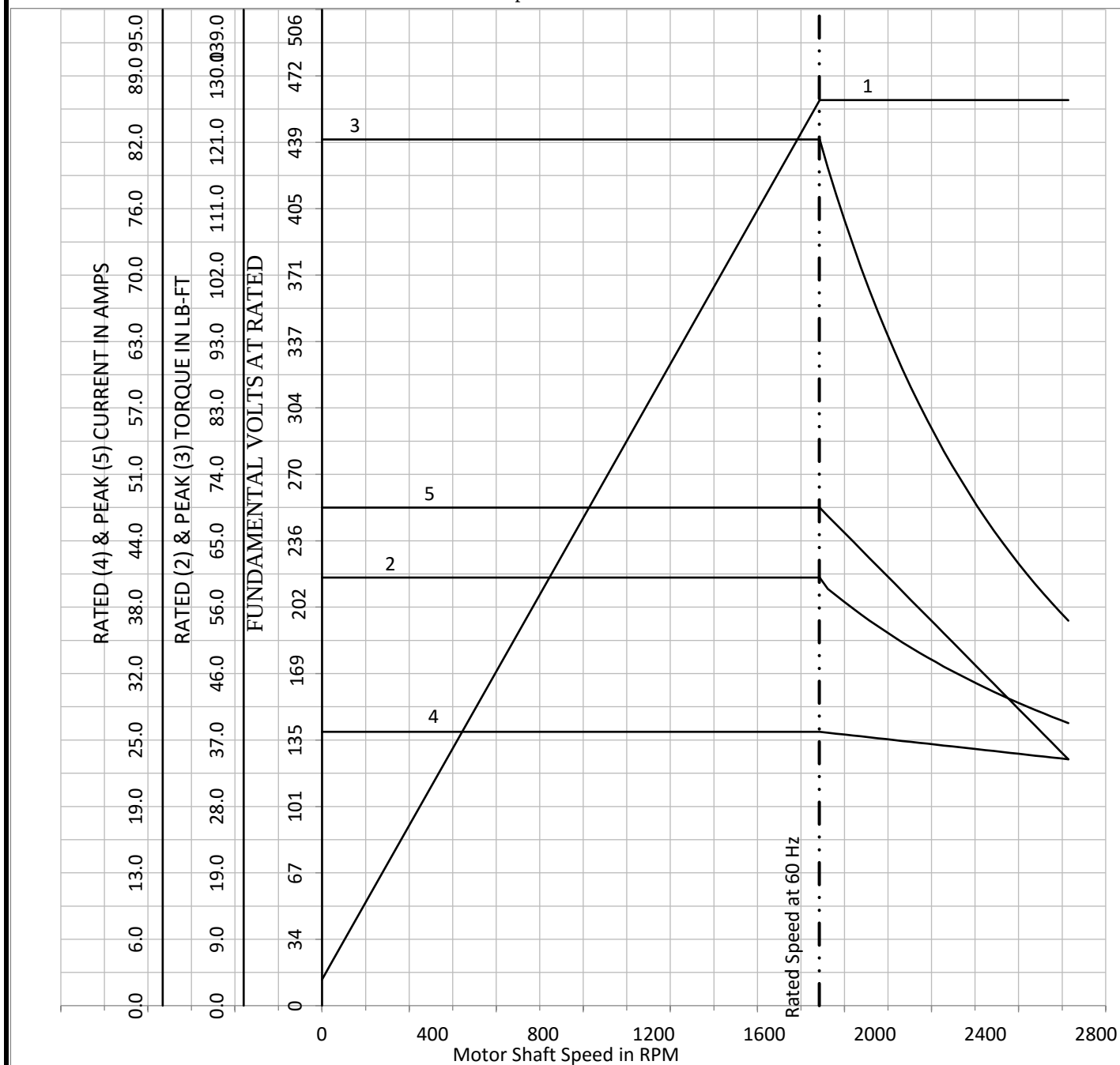
**A-C MOTOR
PERFORMANCE
CURVES**
10WGW586
Record: 2299

HP 20 HP
 BASE SPEED 1784
 PHASE/HZ 3/60

MAX SAFE RPM 2700
 Base Volt 460
 NL AMPS 14.50
 Slips(HZ) 0.53
 WK2 (LB-FT2) 4.440

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 R1 0.131 X1 0.594
 R2 0.644 X2 0.478
 R2B 0.094 X2B 0.811
 R2E 0.027 XM 17.600

Vector PWM Inverter Duty
 Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only



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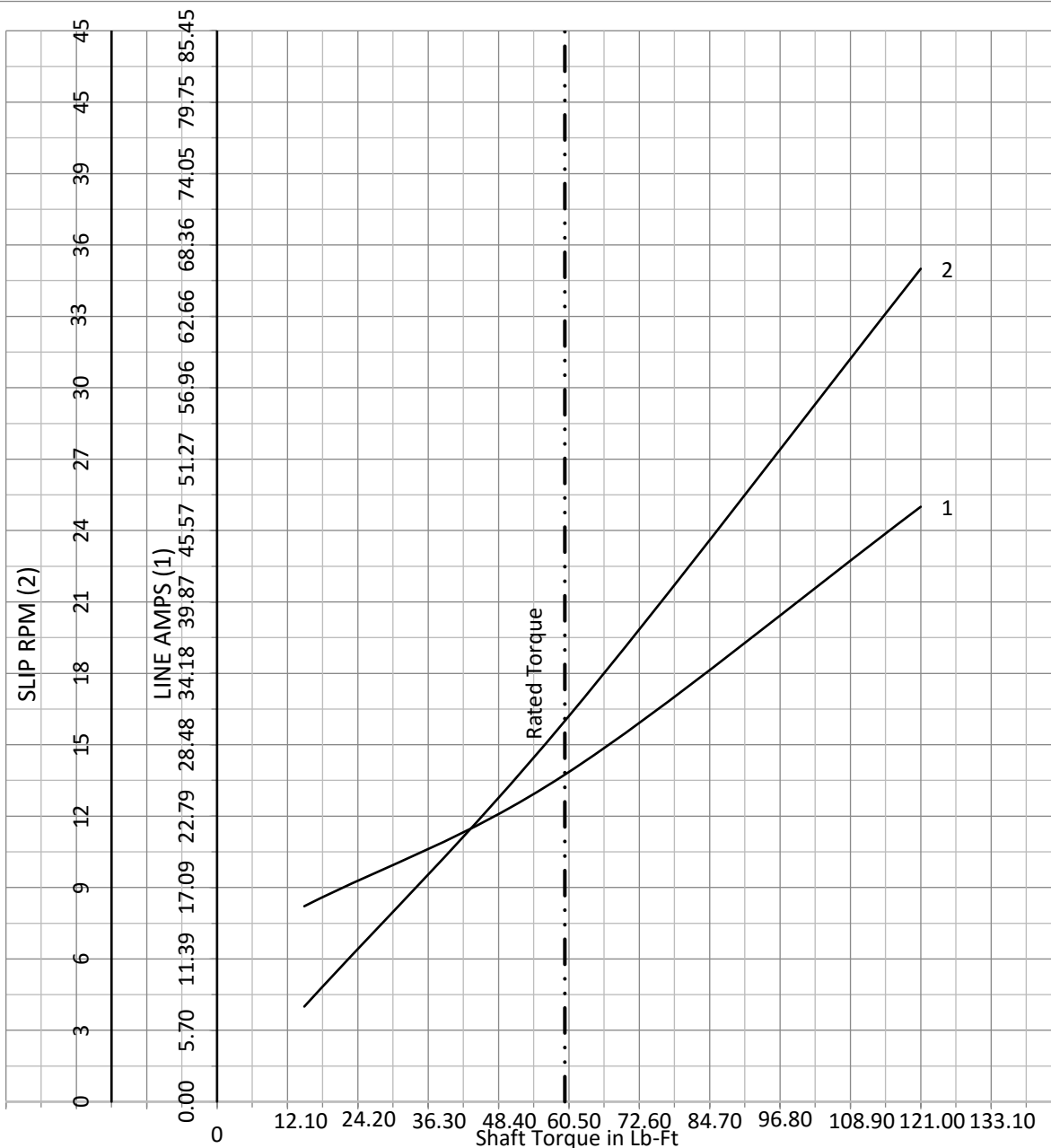
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**A-C MOTOR
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10WGW586

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