

ABB BALDOR RELIANCE III

Customer information packet

VXT3156T-5

15HP, 1175RPM, 3PH, 60HZ, 284TC, 1046M, TEFC, F

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	284TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP A,B,C,D
Haz Area Division	Division II
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	UR NEMA_PREMIUM NEMA PREMIUM CSA EEV CCSA US
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
Constant Torque Speed Range	3
Current @ Voltage	16.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	10WGY949
Layout	10LYC153
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	06
Leads	3#12
Proprietary	False
Created date	06-09-2021

High Voltage Full Load Amps	16.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1046M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	27.76 IN
Power Factor	76
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1175 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

NP4224L											
CAT.NO.	VXT3156T-5						I.P.	54			
SPEC.	10-0000-2174						ENCL	TEFC			
FRAME	284TC	H.P.	15				T. CODE	T3C			
VOLTS	575		P.F.		76						
F.L. AMPS	16		RATING		40C AMB-CONT						
R.P.M.	1175										
HZ.	60	PH.	3	CLASS		F					
SER.F.	1.15	DES.	A	SL HZ		1.3					
NEMA NOM. EFF.	91.7	WK2		4.9							
DE	6311	ODE	6309								
MAG. CUR.	8.2										
INV TYPE	PWM	CHP	60	TO	90	INV TEMP CODE		T3C			
CT	3	TO	60	VT	3	TO	60				
CC	010A	SN									

AC Induction Motor Performance Data

Record # 88739

Typical performance - not guaranteed values

Winding: 10WGY949-R001				Type: 1046M		Enclosure: TEFC		
Nameplate Data				575 V, 60 Hz: Single Voltage Motor				
Rated Output (HP)		15		Full Load Torque		66.7 LB-FT		
Volts		575		Start Configuration		direct on line		
Full Load Amps		16		Breakdown Torque		201 LB-FT		
R.P.M.		1175		Pull-up Torque		87.8 LB-FT		
Hz	60	Phase	3	Locked-rotor Torque		107 LB-FT		
NEMA Design Code		A	KVA Code	H		Starting Current		109 A
Service Factor (S.F.)		1.15		No-load Current		8.97 A		
NEMA Nom. Eff.		91.7	Power Factor	76		Line-line Res. @ 25°C		0.868 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		43°C		
S.F. Amps				Temp. Rise @ S.F. Load		52°C		
				Locked-rotor Power Factor		33.5		
				Rotor inertia		5.63 LB-FT2		

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	35	55	68	75	78	80	76
Efficiency	83.5	89.7	91.3	91.6	91.3	90.6	91.7
Speed	1196	1192	1189	1185	1180	1176	1184
Line amperes	9.64	11.25	13.58	16.41	19.7	23.25	17.5

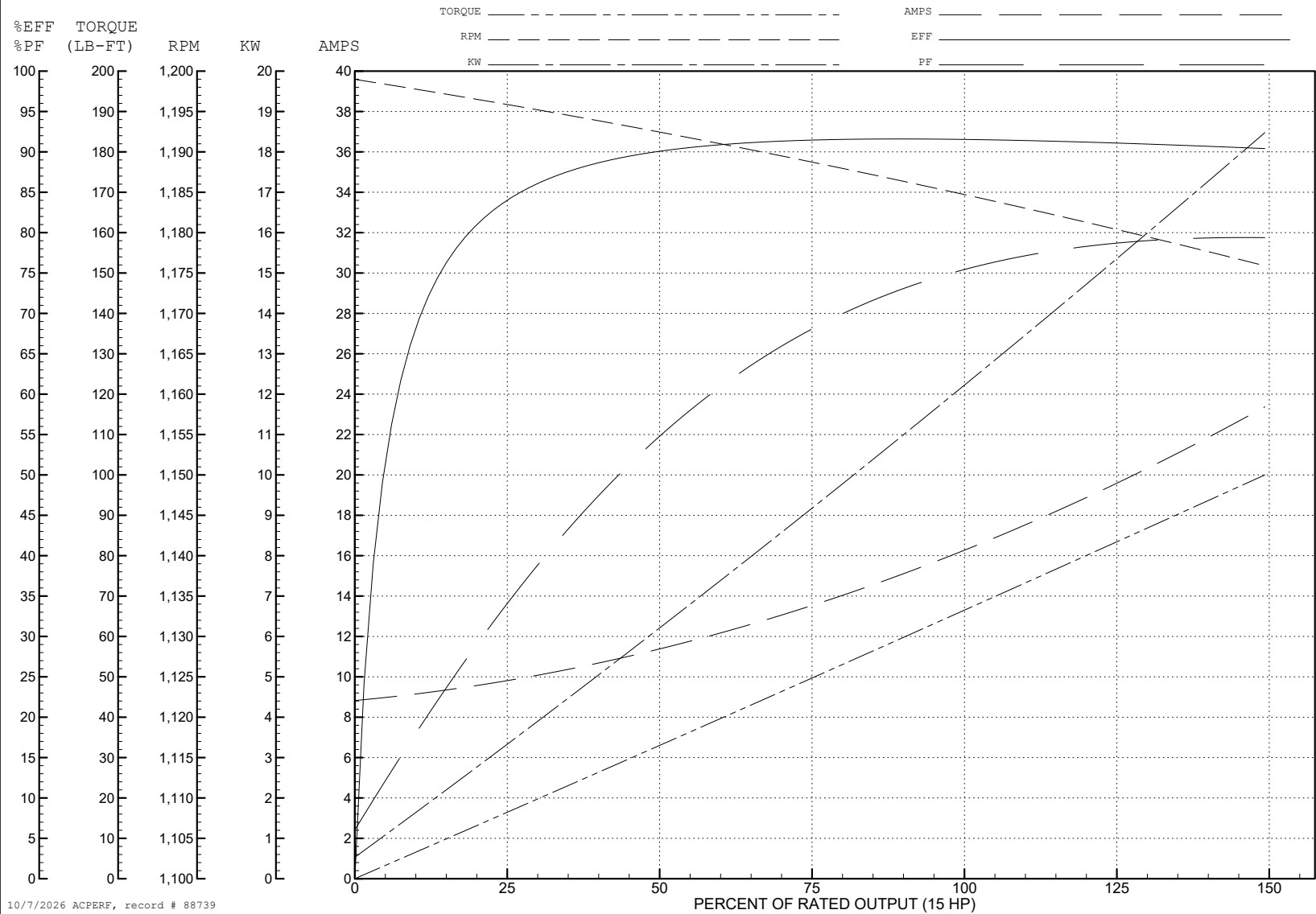
ABB Motors and Mechanical Inc.

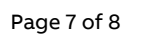
WINDING # 10WGY949

Typical performance - not guaranteed values.

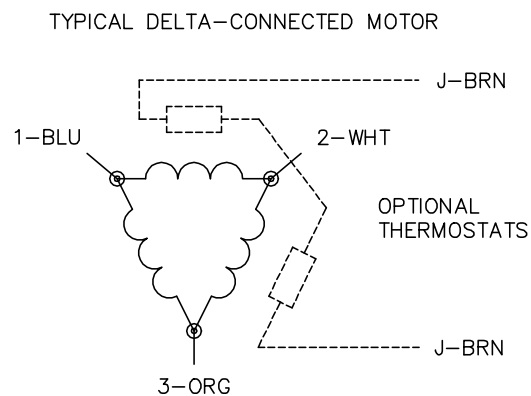
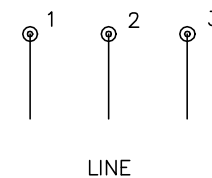
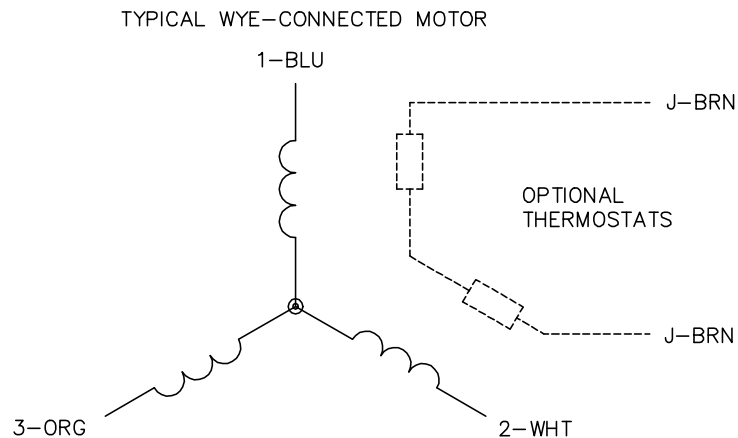
15 HP 3 PH 60 HZ 1175 RPM 575 V 1046M

TORQUES (LB-FT): PO=201 PU=87.8 LR=107 LRA=109





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: —


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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