

ABB BALDOR RELIANCE III

Customer information packet

VXT3202T-5

20HP, 3520RPM, 3PH, 60HZ, 256TC, TEFC, F1

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	256TC
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	20.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 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	6
Current @ Voltage	18.000 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3
Heater Indicator	No Heater

Part Detail

Revision	E
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WZ699
Layout	09LY-001-011
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	06-02-2021

High Voltage Full Load Amps	18.0 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	0936M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	23.86 IN
Power Factor	88
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3520 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.	VXT3202T-5							I.P.	54			
SPEC.	09-0000-3211							ENCL	TEFC			
FRAME	256TC	H.P.		20				T. CODE			T3	
VOLTS	575			P.F.		88						
F.L. AMPS	18			RATING		40C AMB-CONT						
R.P.M.	3520											
HZ.	60	PH.		3	CLASS		F					
SER.F.	1.15	DES.		A		SL HZ		1.3				
NEMA NOM. EFF.	91	WK2		0.92								
DE	6309	ODE		6208								
MAG. CUR.	5.7											
INV TYPE	PWM	CHP	60	TO		90	INV TEMP CODE		T3			
CT	6	TO	60	VT		6	TO	60				
CC	010A	SN										

AC Induction Motor Performance Data

Record # 88533

Typical performance - not guaranteed values

Winding: 09WGZ699-R001			Type: 0936M	Enclosure: TEFC	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		20	Full Load Torque		29.8 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		18	Breakdown Torque		91.1 LB-FT
R.P.M.		3520	Pull-up Torque		31.67 LB-FT
Hz	60	Phase	3	Locked-rotor Torque	39 LB-FT
NEMA Design Code	A	KVA Code	H	Starting Current	111 A
Service Factor (S.F.)			1.15	No-load Current	6.21 A
NEMA Nom. Eff.	91	Power Factor	88	Line-line Res. @ 25°C	0.74 Ω
Rating - Duty			40C AMB-CONT	Temp. Rise @ Rated Load	50°C
S.F. Amps				Temp. Rise @ S.F. Load	61°C
				Locked-rotor Power Factor	29.7
				Rotor inertia	0.92 lb-ft²

Load Characteristics 575 V, 60 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	56	78	86	89	90	91	90
Efficiency	88.2	91.7	92.3	92.1	91.5	90.5	91.7
Speed	3583	3567	3550	3532	3513	3491	3521
Line amperes	7.6	10.6	14.2	18.3	22.7	27.4	20.9

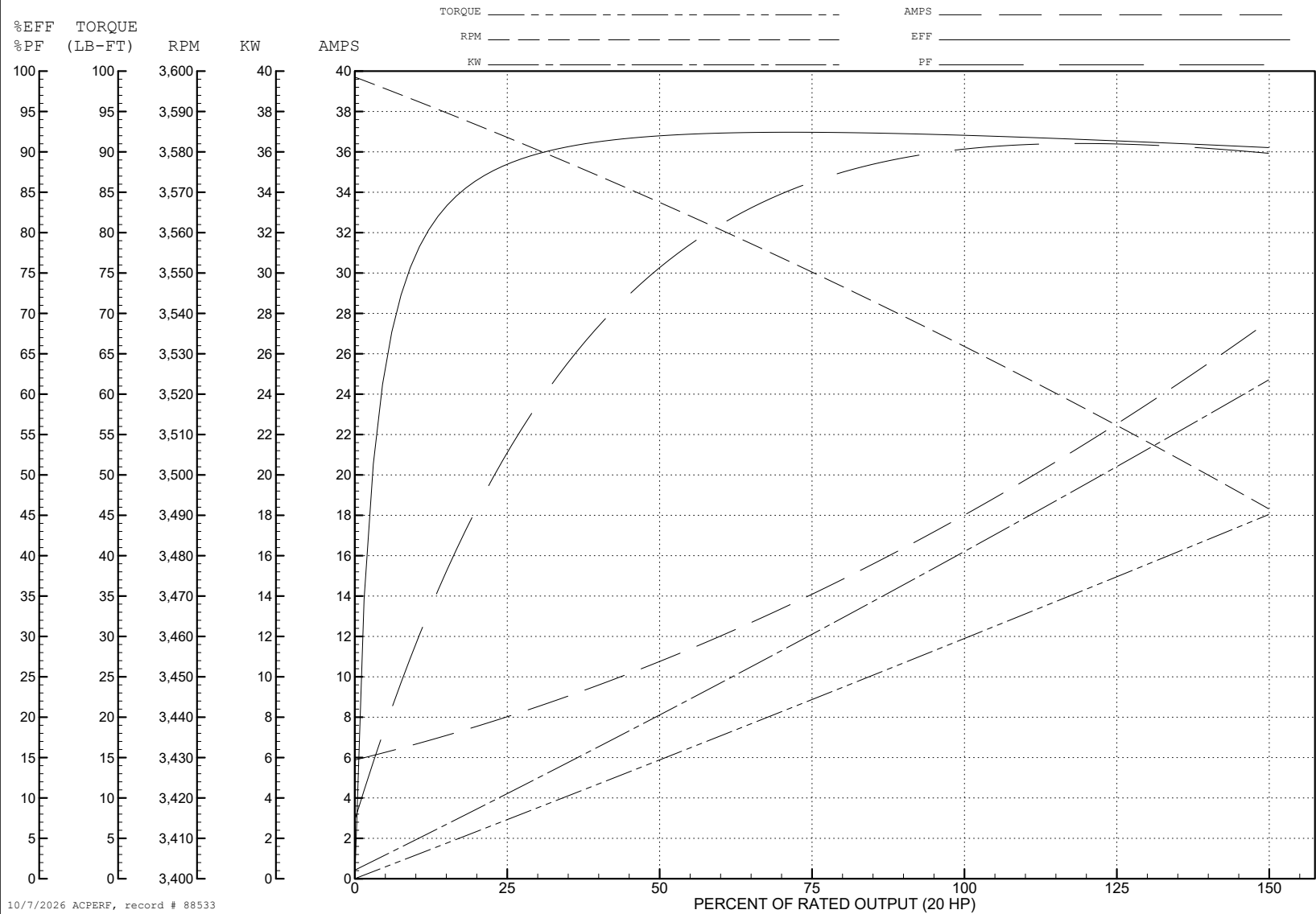
ABB Motors and Mechanical Inc.

WINDING # 09WGZ699

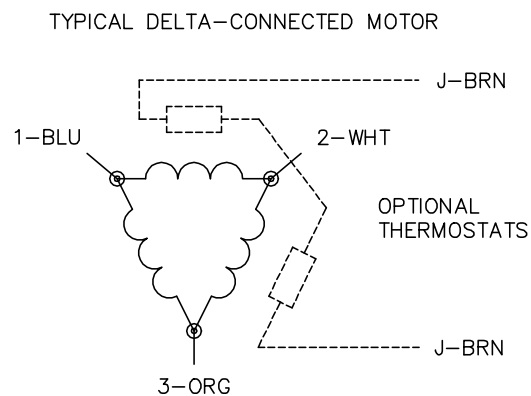
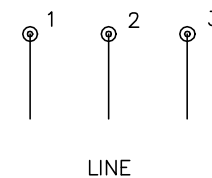
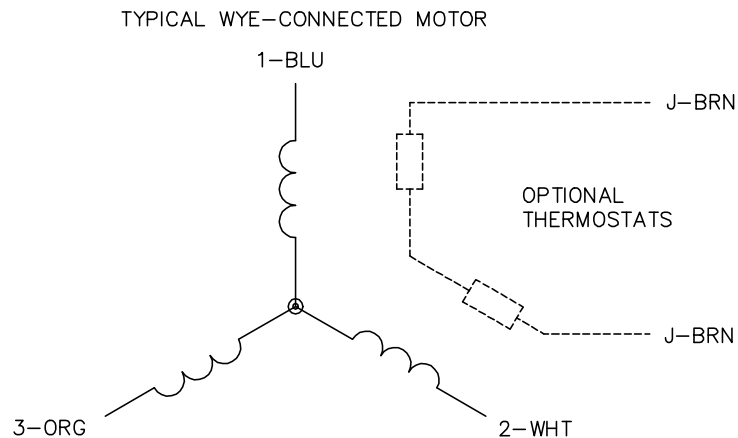
Typical performance - not guaranteed values.

20 HP 3 PH 60 HZ 3520 RPM 575 V 0936M

TORQUES (LB-FT): PO=91.1 PU=31.67 LR=39 LRA=111



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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