ABB BALDOR RELIANCE

Customer information packet

VXT3054T-5

5HP, 1750RPM, 3PH, 60HZ, 184TC, 0642M, TEFC, F1
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	184TC
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	5.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 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	5.300 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
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.	06WGY425
Layout	06LYH799
Eff. date	11-27-2024
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	05-20-2021

High Voltage Full Load Amps	5.3 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	0642M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	15.98 IN
Power Factor	81
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1750 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.	VXT3054T-5					**I.P.**	54		
SPEC.	06-0000-0944					**ENCL**	TEFC		
FRAME	184TC	**H.P.**	5			**T. CODE**	T3C		
VOLTS	575			**P.F.**	81				
F.L. AMPS	5.3			**RATING**	40C AMB-CONT				
R.P.M.	1750								
HZ.	60	**PH.**	3	**CLASS**	F				
SER.F.	1.15	**DES.**	B	**SL HZ**	1.7				
NEMA NOM. EFF.	89.5	**WK2**	0.39						
DE	6206	**ODE**	6205						
MAG. CUR.	2.2								
INV TYPE	PWM	**CHP**	60	**TO**	90	**INV TEMP CODE**	T3C		
CT	6	**TO**	60	**VT**	6	**TO**	60		
CC	010A	**SN**							

AC Induction Motor Performance Data
Record # 88469
Typical performance - not guaranteed values

Winding: 06WGY425-R001	**Type:** 0642M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			5	**Full Load Torque**	15 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			5.3	**Breakdown Torque**	43.1 LB-FT
R.P.M.			1750	**Pull-up Torque**	28.37 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	25.4 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	26.7 A
Service Factor (S.F.)			1.15	**No-load Current**	2.33 A
NEMA Nom. Eff.	89.5	**Power Factor**	81	**Line-line Res. @ 25ºC**	3.96 Ω
Rating - Duty			50C AMB-CONT	**Temp. Rise @ Rated Load**	49°C
S.F. Amps				**Temp. Rise @ S.F. Load**	59°C
				Locked-rotor Power Factor	39.7
				Rotor inertia	0.391 lb-ft²

Load Characteristics 575 V, 60 Hz, 5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	43	66	77	83	86	87	85
Efficiency	84.2	89	89.9	89.5	88.6	87.3	89
Speed	1789	1778	1766	1753	1739	1724	1745
Line amperes	2.59	3.21	4.06	5.05	6.17	7.42	5.72

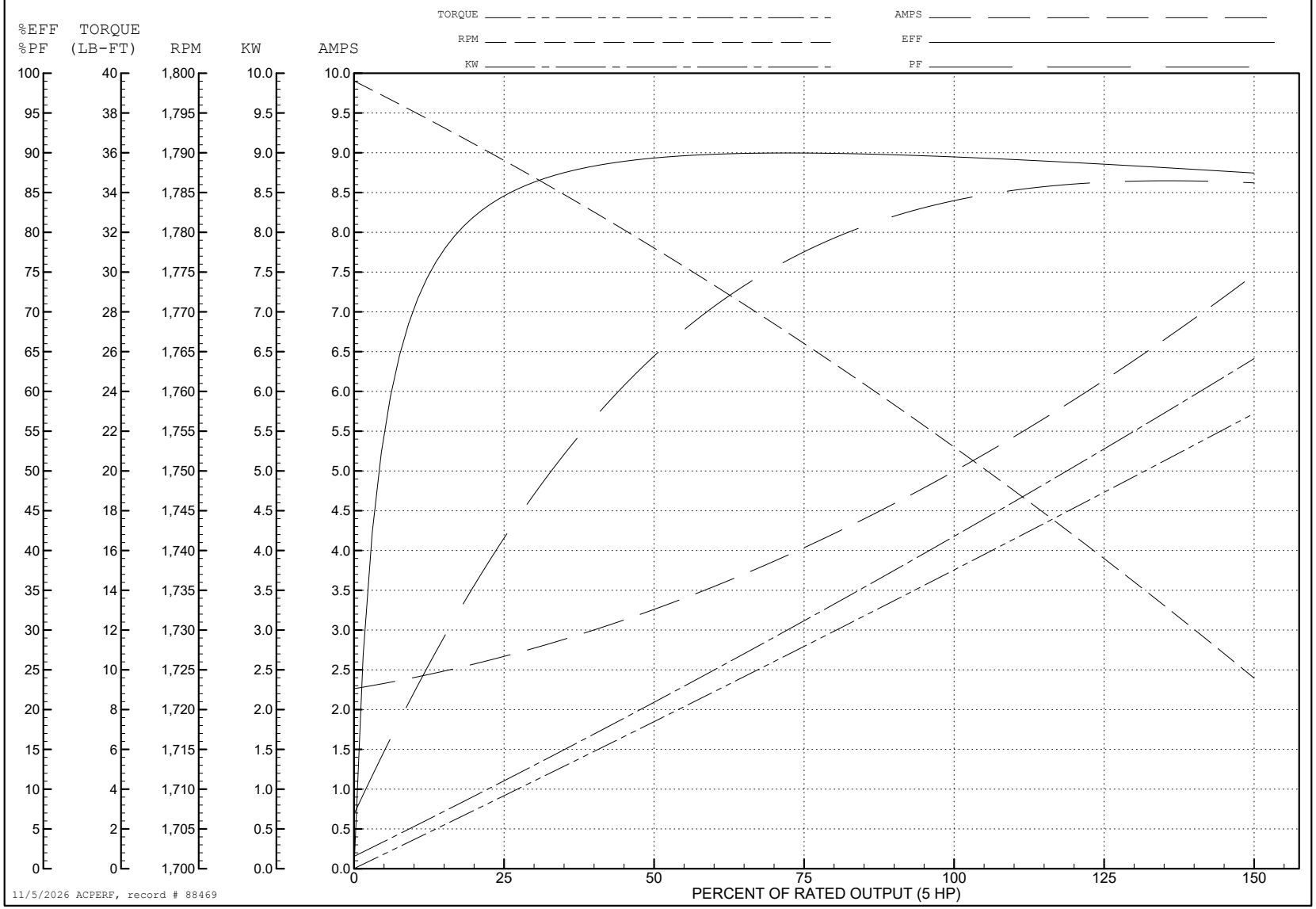
ABB Motors and Mechanical Inc.

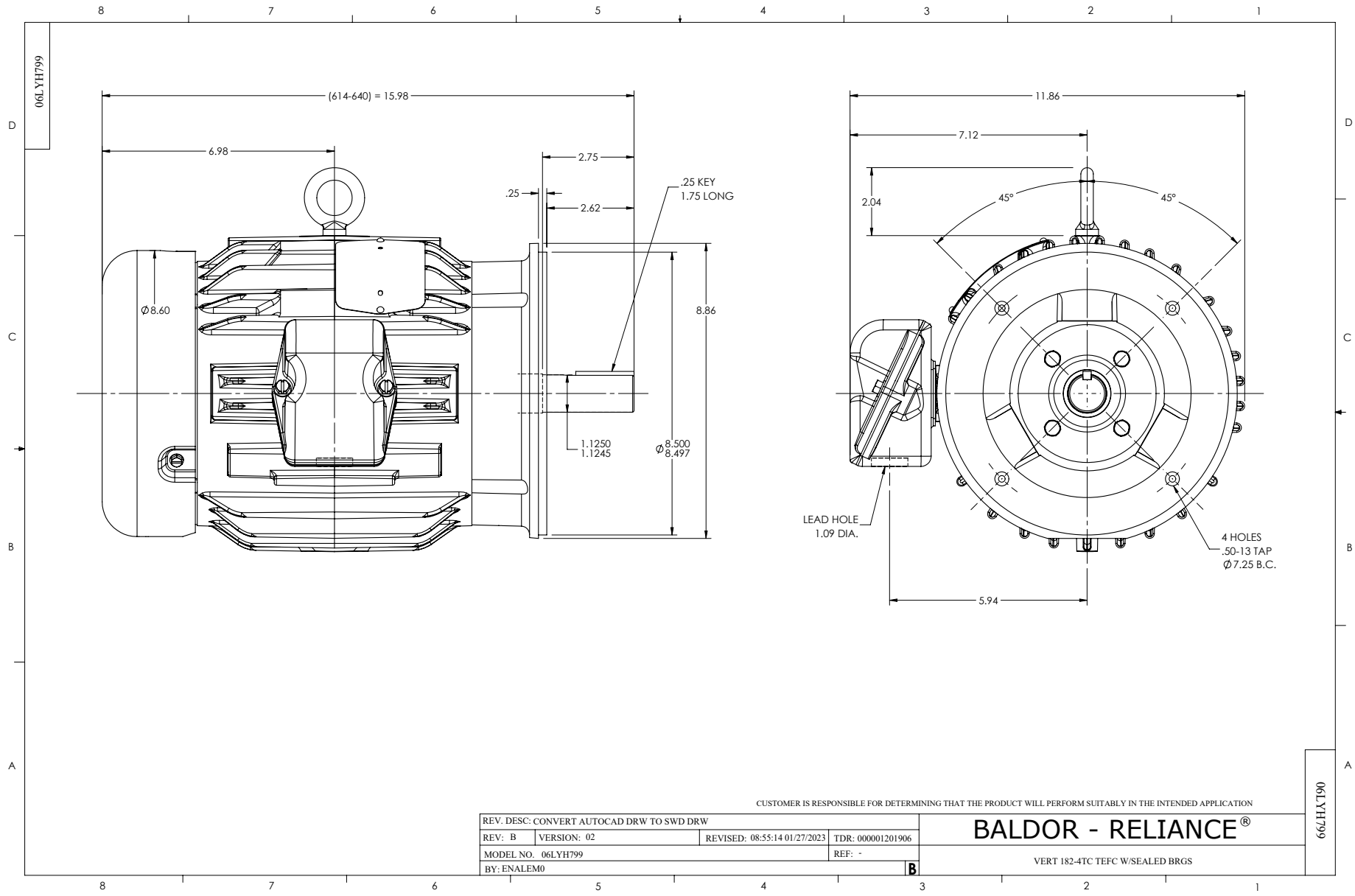
WINDING # 06WGY425

5 HP 3 PH 60 HZ 1750 RPM 575 V 0642M

Typical performance - not guaranteed values.

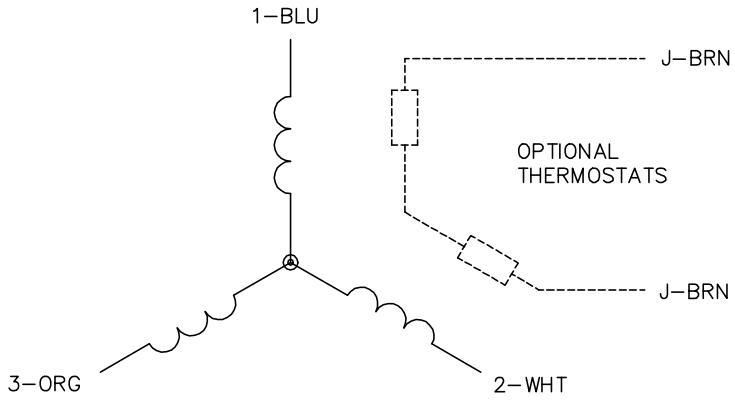
TORQUES(LB-FT): PO=43.1 PU=28.37 LR=25.4 LRA=26.7

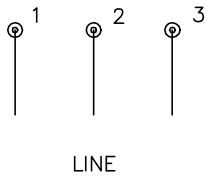



06LYH799
(614-640) = 15.98
6.98
2.75
.25
2.62
.25 KEY
1.75 LONG
Ø8.60
8.86
1.1250
1.1245
Ø8.500
8.497
11.86
7.12
2.04
45°
45°
LEAD HOLE
1.09 DIA.
4 HOLES
.50-13 TAP
Ø7.25 B.C.
5.94
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: B
VERSION: 02
REVISED: 08:55:14 01/27/2023
TDR: 000001201906
MODEL NO. 06LYH799
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT 182-4TC TEFC W/SEALED BRGS
06LYH799

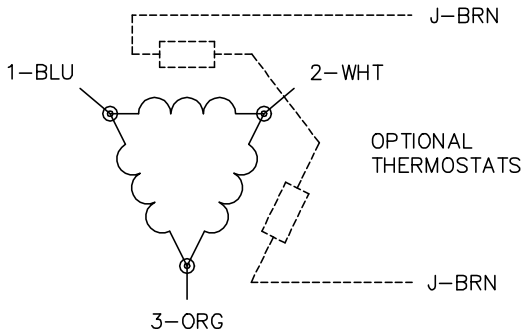
CD0006

TYPICAL WYE–CONNECTED MOTOR





TYPICAL DELTA–CONNECTED MOTOR



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: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

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

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