ABB BALDOR RELIANCE

Customer information packet

CXT30152T

1.5HP, 3450RPM, 3PH, 60HZ, 145TC, 0524M, TEFC
Class - CLI GP A,B,C,D
Division - Division II

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Specifications

Enclosure	TEFC
Frame	145TC
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	1.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	UR
	CCSA US
	NEMA_PREMIUM
	NEMA PREMIUM
	CSA EEV
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
Constant Torque Speed Range	6
Current @ Voltage	2.000 A @ 460.0 V
	4.000 A @ 230.0 V
	4.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	85.5 %

Part Detail

Revision	B
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	05WGW116
Layout	05LY-000-375
Eff. date	06-28-2024
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	11-20-2020

Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T4
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	NONE
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0524M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	12.54 IN
Power Factor	83
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3450 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

NP4163L									
CAT.NO.	CXT30152T					**I.P.**	54		
SPEC.	05-0000-0899					**ENCL**	TEFC		
FRAME	145TC		**H.P.**	1.5					
VOLTS	208-230/460		**P.F.**	83					
F.L. AMPS	4.3-4/2			**RATING**	40C AMB-CONT				
R.P.M.	3450								
HZ.	60	**PH.**	3	**CLASS**	F				
SER.F.	1.15	**DES.**	B	**SL HZ**	1.6				
NEMA NOM. EFF.	85.5	**WK2**	0.07						
DE	6205	**ODE**	6203						
MAG. CUR.	1.8/.9								
INV TYPE	PWM	**CHP**	60	**TO**	90	**T. CODE**	T4		
CT	6	**TO**	60	**VT**	6	**TO**	60		
CC	010A	**SN**							
	USABLE AT 50 HZ 1HP 190/380V 3.6/1.8A								

AC Induction Motor Performance Data
Record # 47152
Typical performance - not guaranteed values

Winding: 05WGW116-R023 **Type:** 0524M **Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			1.5
Volts			208-230/460
Full Load Amps			4.3-4/2
R.P.M.			3450
Hz	60	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	85.5	**Power Factor**	83
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	2.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	10.8 LB-FT
Pull-up Torque	8.1 LB-FT
Locked-rotor Torque	10.2 LB-FT
Starting Current	20.1 A
No-load Current	0.88 A
Line-line Res. @ 25ºC	8.2 Ω
Temp. Rise @ Rated Load	32°C
Temp. Rise @ S.F. Load	37°C
Rotor inertia	0.0664 LB-FT2

Load Characteristics 460 V, 60 Hz, 1.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	49	68	78	83	87	88	84
Efficiency	71.9	81.3	84.3	85.5	85	84	85.2
Speed	3569	3545	3521	3496	3468	3439	3479
Line amperes	1.03	1.29	1.6	2	2.4	2.8	2.25

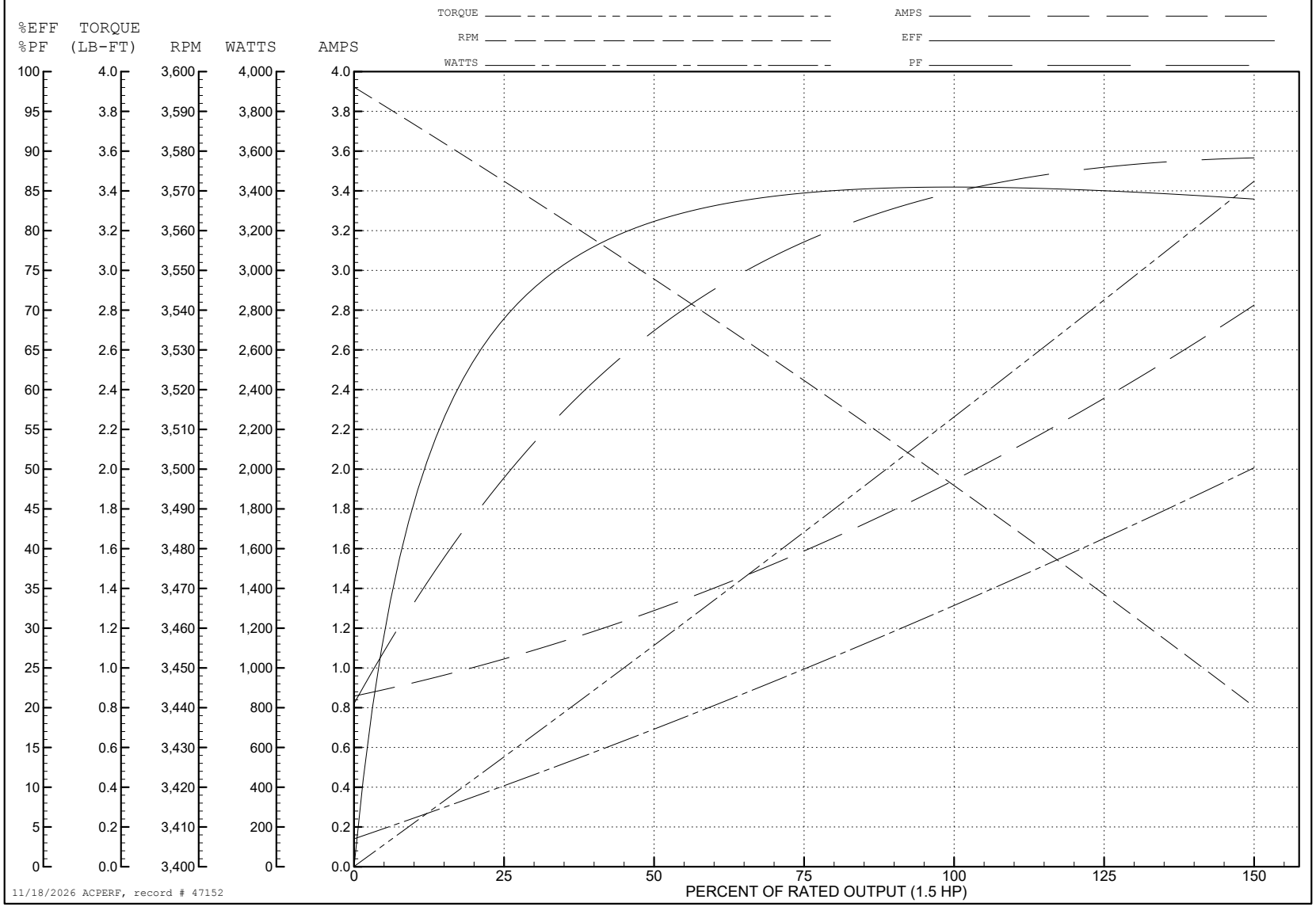
ABB Motors and Mechanical Inc.

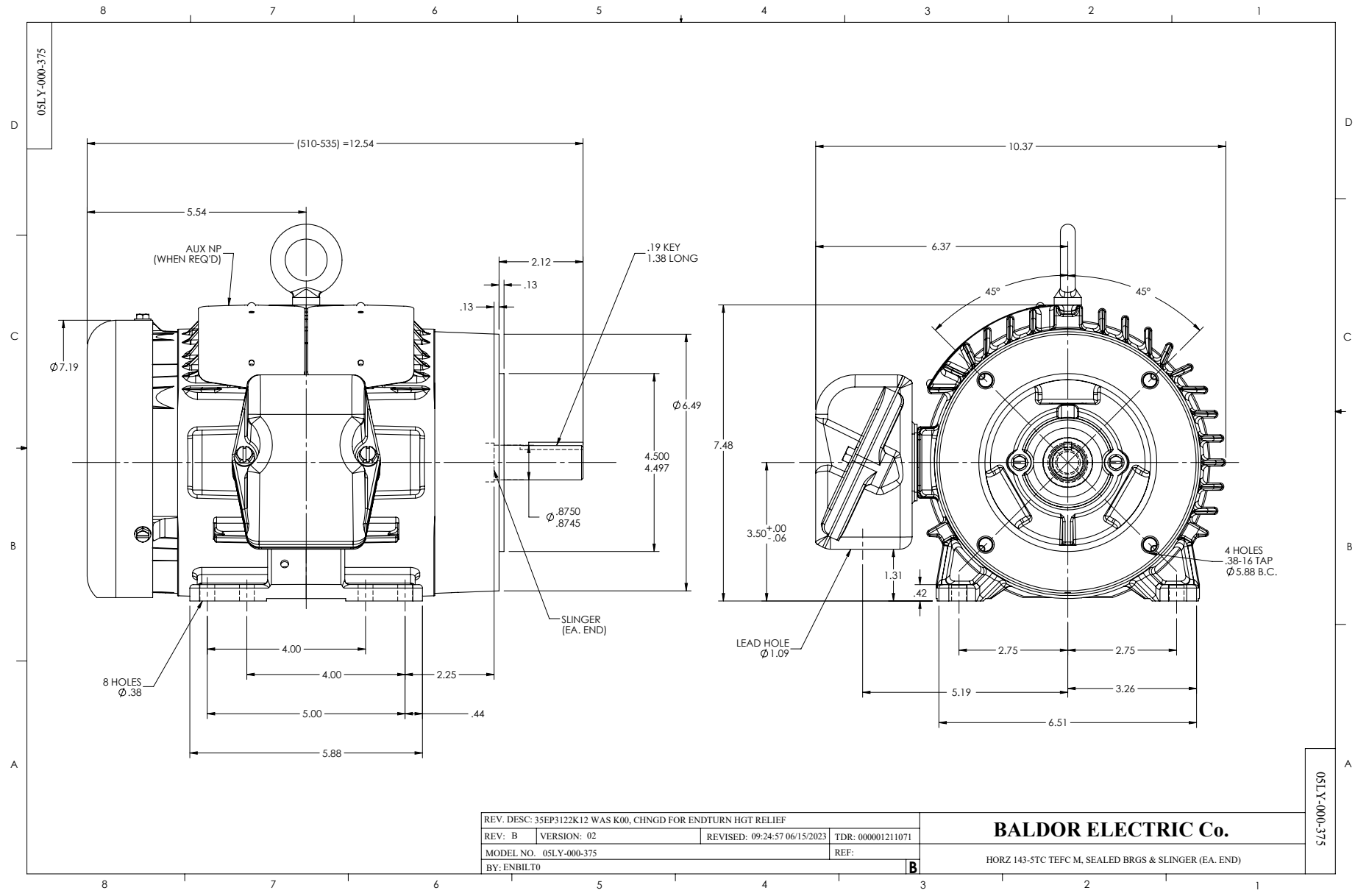
WINDING # 05WGW116

1.5 HP 3 PH 60 HZ 3450 RPM 460 V 0524M

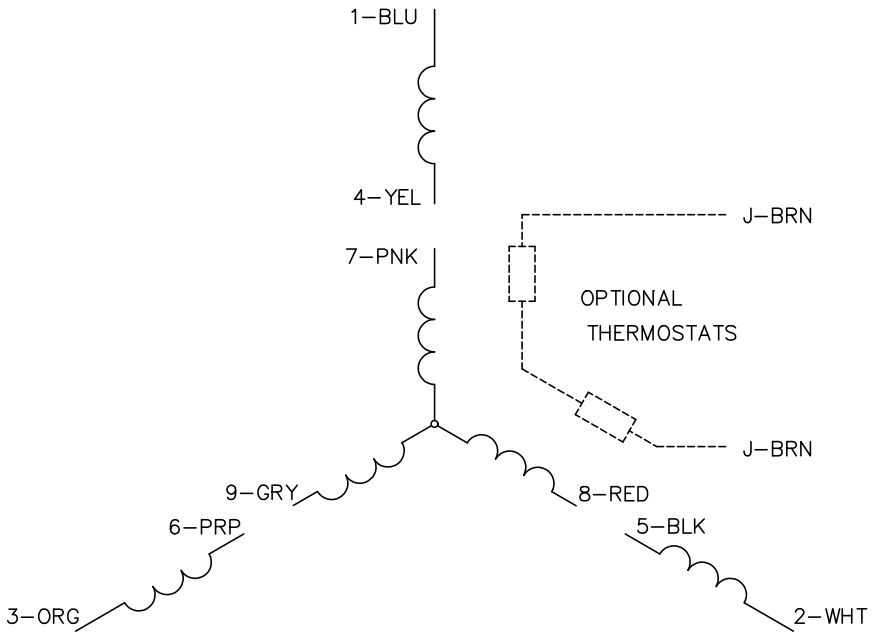
Typical performance - not guaranteed values.

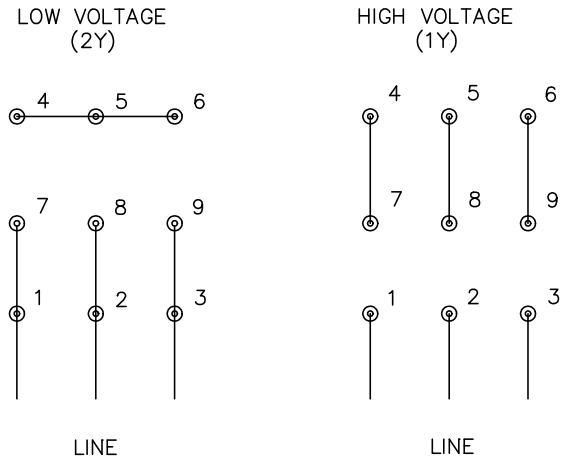
TORQUES(LB-FT): PO=10.8 PU=8.1 LR=10.2 LRA=20.1




05LY-000-375
(510-535) =12.54
5.54
AUX NP
(WHEN REQ'D)
2.12
.13
.13
.19 KEY
1.38 LONG
Ø7.19
Ø6.49
4.500
4.497
Ø.8750
Ø.8745
SLINGER
(EA. END)
4.00
4.00
2.25
8 HOLES
Ø.38
5.00
.44
5.88
10.37
6.37
45°
45°
7.48
3.50 +.00 -.06
1.31
.42
LEAD HOLE
Ø1.09
4 HOLES
.38-16 TAP
Ø5.88 B.C.
2.75
2.75
5.19
3.26
6.51
REV. DESC: 35EP3122K12 WAS K00, CHNGD FOR ENDTURN HGT RELIEF
REV: B
VERSION: 02
REVISED: 09:24:57 06/15/2023
TDR: 000001211071
MODEL NO. 05LY-000-375
REF:
BY: ENBILT0
B
BALDOR ELECTRIC Co.
HORZ 143-5TC TEFC M, SEALED BRGS & SLINGER (EA. END)
05LY-000-375

CD0005





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.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS