ABB BALDOR RELIANCE

Customer information packet

IDM2334T-5

60M 4P TEBC HOR 256TC TSTAT INV DUTY
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEBC
Frame	256TC
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	575.0 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	BLOWER
Current @ Voltage	19.200 A @ 575.0 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 Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	19.2 a
Insulation Class	H
Inverter Code	Inverter Duty
KVA Code	J

Part Detail

Revision	H
Type	AC
Mech. spec.	09T110
Base	
Status	PRD/A
Elec. spec.	09WGT507
Layout	09LYT110
Eff. date	08-28-2025
CD Diagram	CD0006
Poles	04
Leads	3#12
Proprietary	False
Created date	03-19-2019

Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Quantity/Wire Size	3 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0960M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	29.41 IN
Power Factor	83
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1163L									
CAT NO	IDM2334T-5								
SPEC.	09T110T507G1								
FRAME	256TC			**HP**	20 TE				
VOLTS	575								
MAG CUR	8.3				**FLA**	19.2			
RPM	1770			**RPM MAX**	2700				
HZ	60	**PH**	3		**CLASS**	H			
SER.F.	1.00	**DES**	A			**SL HZ**	1		
NEMA-NOM-EFF	93		**WK2**	2.62					
BLWR V		**PH**		**HZ**		**A**			
RATING	40C AMB-CONT								
DE BRG	6309			**ODE BRG**	6208				
CC	010A	**SN**							
	1000:1 CT, 1000:1 VT								

Parts List

Part number	Description	Quantity
SA371182	SA 09T110T507G1	1.000 ea
RA360862	RA 09T110T507G1	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
09EP1100A74	FR. E.P. TEBC/TENV W/THRU SHAFT ENCODER	1.000 ea
HA3400A39	STUD- 3/8-16 X 6.44 OAL HEX	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
HA1005A12	SLINGER, OD 2.50, ID 1.433, 208 BRG	1.000 ea
10XN2520K12	1/4-20 X.75 GRD 5	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	1.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
09EP1300A12	ENDPLATE, MACH	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea

HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
09FH5100A01	309 BLOWER ASSY. (09FH4016 & EF5101)	1.000 ea
WD4101A08	STIMPSON #D3557,1.188 DIA. HOLE PLUG	1.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1163L	ALUM INV UL CSA CC	1.000 ea
42PA1010	PACKAGING GROUP, PRINT PK1151A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LD7020D03	LEAD SET, 12AWG, 3 LEAD, 20" LONG LEADS	1.000 ea

INP AMPS	19.2	MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)			
HP	20 HP	Base Volt	575	R1	0.264	X1	1.370
BASE SPEED	1772	NL AMPS	8.28	R2	0.249	X2	1.820
PHASE/HZ	3/60	Slips(HZ)	0.93			XM	47.200
		WK2 (lb-ft²)	2.650				

Rated Full Load Data

	RPM	HP	Torque	Volts	Freq-Hz	Amps
Base Speed	1772	20.0	59.3	575	60	19.2
Max Speed	2657	20.0	39.6	575	90	18.5
Min Speed	0	0.0	59.3	22.51	0.93	19.2

Load Performance at Base Speed

	RPM	HP	Torque	Volts	Freq-Hz	Amps
No Load	1799	0.0	0.0	575	60	8.3
1/4	1793	5.0	14.7	575	60	9.4
1/2	1786	10.0	29.5	575	60	12.0
3/4	1779	15.0	44.3	575	60	15.3
Full Load	1772	20.0	59.3	575	60	19.2
O/L	1741	40.1	121.0	575	60	39.1

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

Remarks: Calculated Data
Vector PWM Inverter Duty

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A-C MOTOR PERFORMANCE CURVES

09WGT507

Record: 85523

ABB BALDOR RELIANCE

CUSTOMER INFORMATION PACKET

IDM2334T-5 - 60M 4P TEBC HOR 256TC TSTAT INV DUTY

INT AMPS	19.2
HP	20 HP
BASE SPEED	1772
PHASE/HZ	3/60

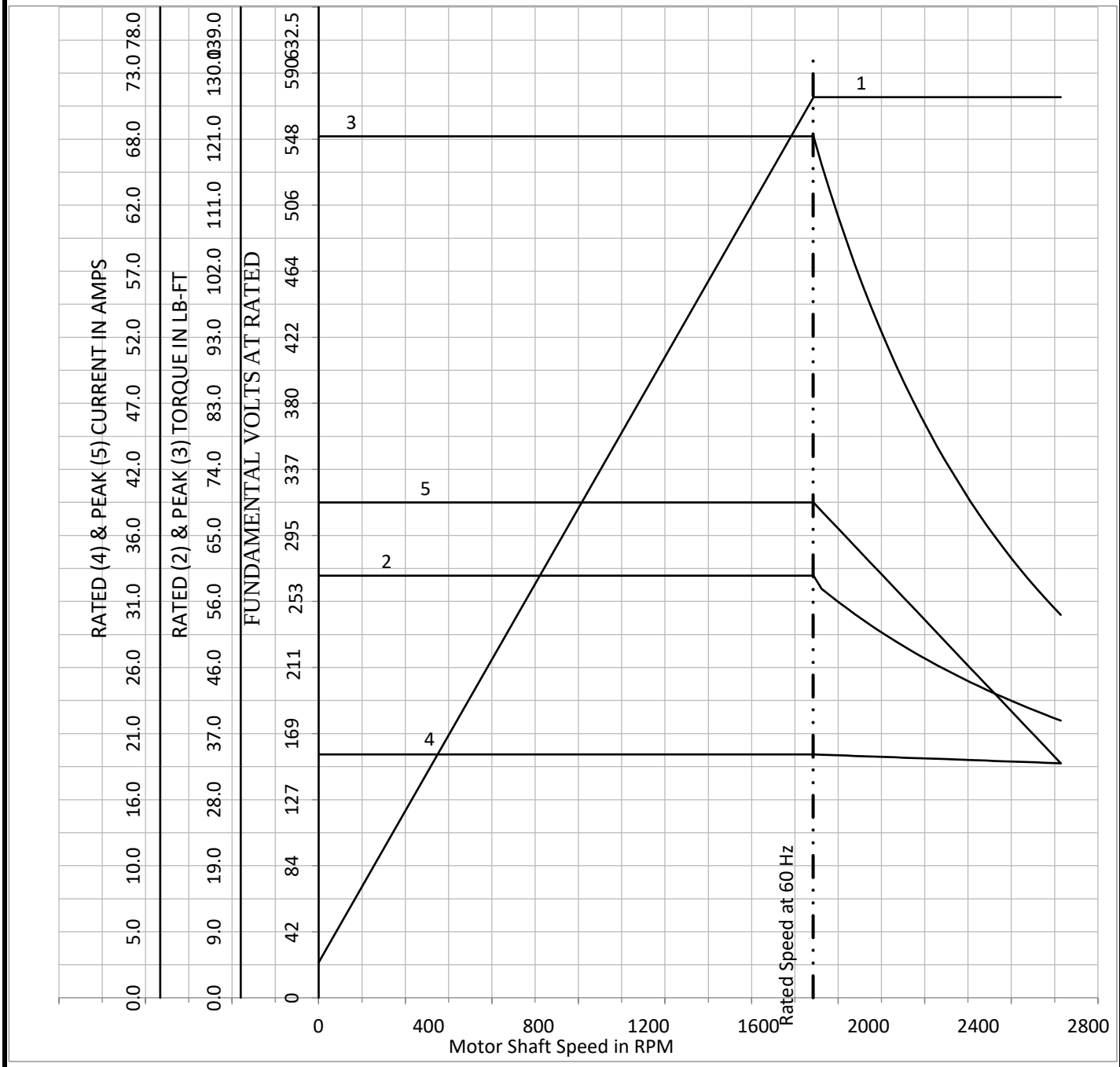
MAX SAFE RPM	2700
Base Volt	575
NL AMPS	8.28
Slips(HZ)	0.93
WK2 (lb-ft²)	2.650

WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)

R1	0.264	X1	1.370
R2	0.249	X2	1.820
		XM	47.200

Vector PWM Inverter Duty

Variable Speed AC Motor Curves



Calculated Data

Data Valid For Nameplate Speed Range only

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A-C MOTOR PERFORMANCE CURVES

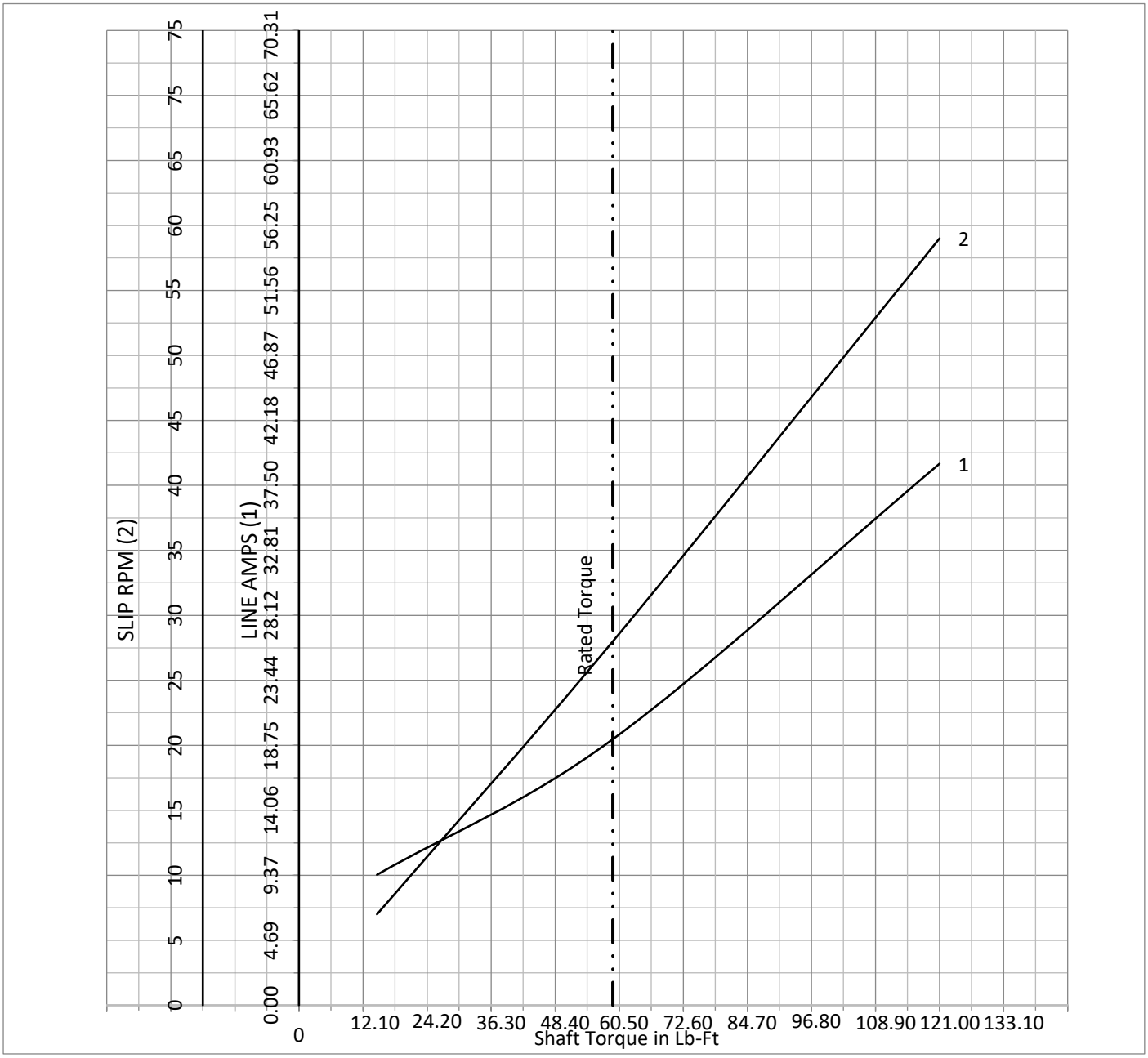
09WGT507

Record: 85523

ABB BALDOR RELIANCE	CUSTOMER INFORMATION PACKET		MAX SAFE RPM	2700	WYE CONN EQ CKT OHMS PER PHASE (BASE RATING, 20C)		
		IDM2334T-5 - 60M 4P TEBC HOR 256TC TSTAT INV DUTY					
[illegible]	[illegible]		Base Volt	575	R1	0.264	X1	1.370
HP	20 HP		NL AMPS	8.28	R2	0.249	X2	1.820
BASE SPEED	1772		Slips(HZ)	0.93			XM	47.200
PHASE/HZ	3/60		WK2 (lb-ft²)	2.650				

Vector PWM Inverer Duty

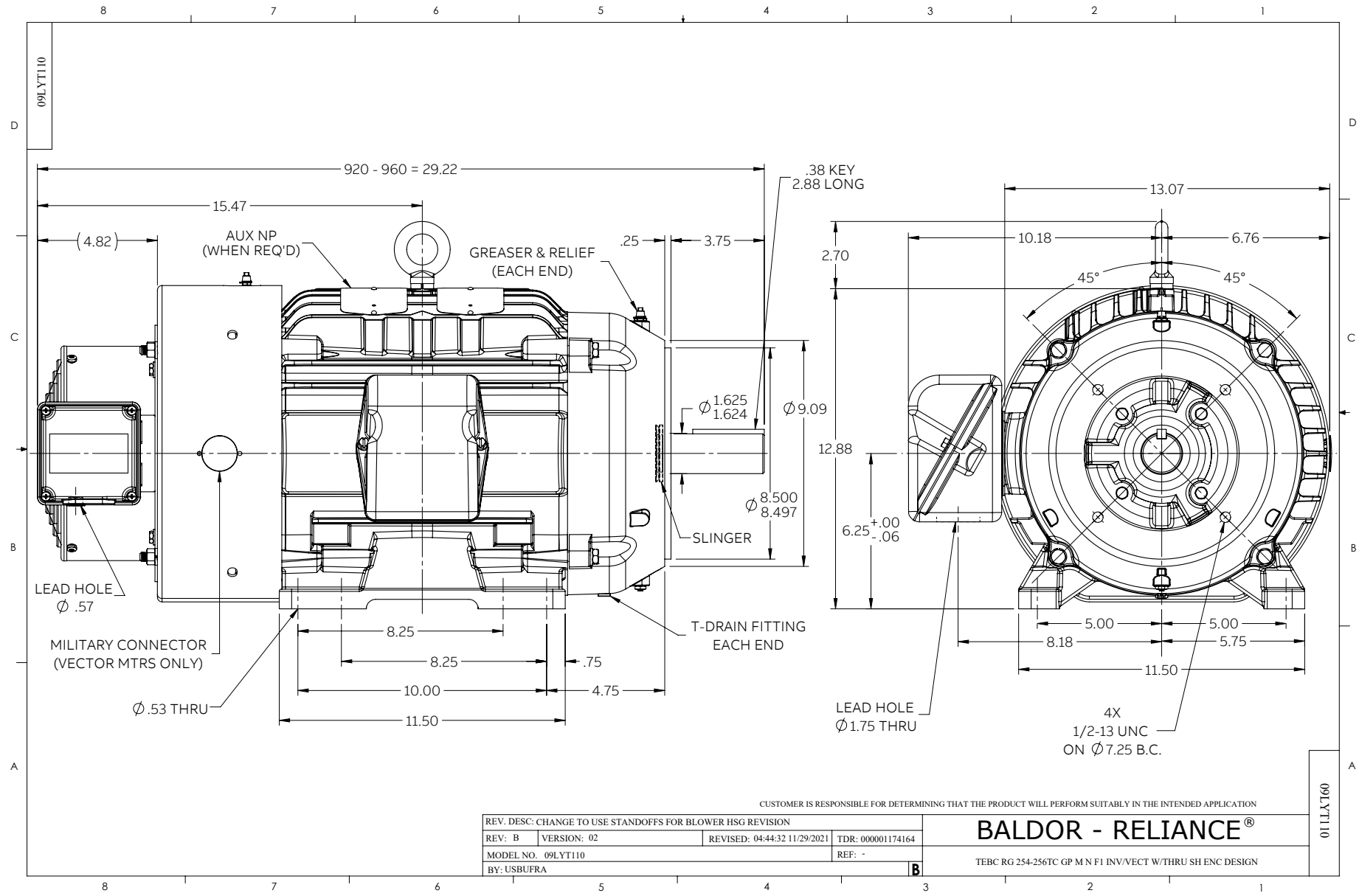
Vaiable Speed AC Motor Curves



Calculated Data

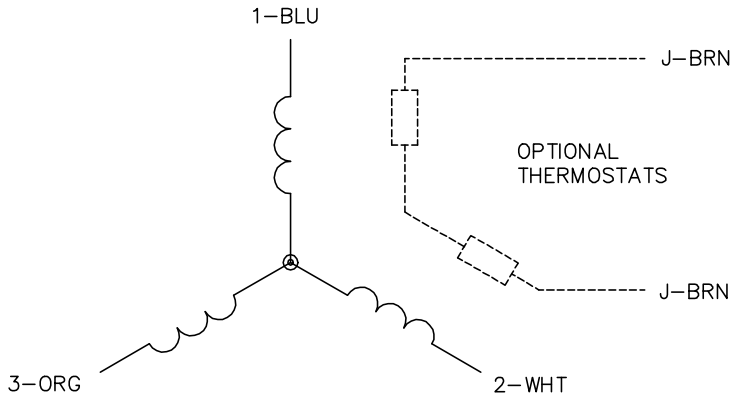
Data Valid For Nameplate Speed Range only

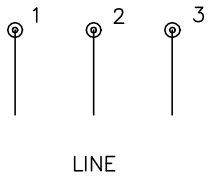
BALDOR • RELIANCE	DR BY USBRRAN1 CK BY APP BY USBRRAN1 DATE 11/19/2020	A-C MOTOR PERFORMANCE CURVES	09WGT507 Record: 85523


09LYT110
920 - 960 = 29.22
15.47
4.82
AUX NP
(WHEN REQ'D)
GREASER & RELIEF
(EACH END)
.25
3.75
.38 KEY
2.88 LONG
Ø1.625
1.624
Ø9.09
Ø8.500
8.497
SLINGER
LEAD HOLE
Ø .57
MILITARY CONNECTOR
(VECTOR MTRS ONLY)
Ø .53 THRU
8.25
8.25
.75
10.00
4.75
11.50
T-DRAIN FITTING
EACH END
13.07
10.18
6.76
2.70
45°
45°
12.88
6.25 +.00 -.06
5.00
5.00
8.18
5.75
11.50
LEAD HOLE
Ø1.75 THRU
4X
1/2-13 UNC
ON Ø7.25 B.C.
09LYT110
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHANGE TO USE STANDOFFS FOR BLOWER HSG REVISION
REV: B
VERSION: 02
REVISED: 04:44:32 11/29/2021
TDR: 000001174164
MODEL NO. 09LYT110
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
TEBC RG 254-256TC GP M N F1 INV/VECT W/THRU SH ENC DESIGN

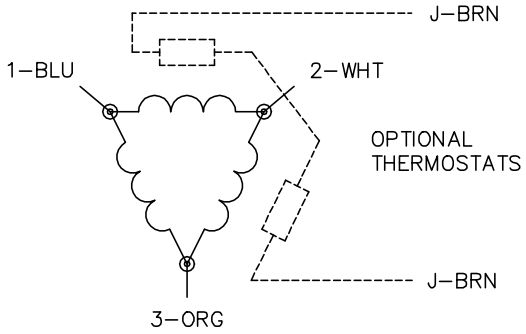
CD0006

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			BALDOR - RELIANCE®
REV. LTR: E	VERSION: 01	TDR: 000001099922	
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0	3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED
MTL: –			SH 1 of 1