ABB BALDOR RELIANCE

Customer information packet

VLECP4106T

20HP, 3540RPM, 3PH, 60HZ, 256LP, 0944M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	256LP
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	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	48.000 A @ 208.0 V
	44.000 A @ 230.0 V
	22.000 A @ 460.0 V
Design Code	A
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard

Part Detail

Revision	U
Type	AC
Mech. spec.	09T01
Base	
Status	PRD/A
Elec. spec.	09WGY799
Layout	09LYT001
Eff. date	02-01-2024
CD Diagram	CD0180
Poles	02
Leads	9#12
Proprietary	False
Created date	07-13-2015

Front Shaft Indicator	None
Haz Area Temp Code	T3
Heater Indicator	No Heater
High Voltage Full Load Amps	22.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0944M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	25.73 IN
Power Factor	92
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Thrust
Pulley Face Code	P-Base
Pulley Shaft Indicator	P-Base Groove & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3540 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

NP3241

CAT.NO.	VLECP4106T		**P/N**				**ENCLOSURE**	TEFC					
SPEC.	09T001Y799G1	**CC**	010A	**FRAME**	256LP		**S/N**						
HP	20		**CLASS**	F	**HZ**	60	**DES**	A					
RPM	3540		**RPM MAX**	5400	**PH**	3	**KVA-CODE**	J					
VOLT	230/460			**MOTOR WEIGHT**	335								
AMP	44/22		**SER.F.**	1.15	**PF**	92	**ODE BRG**	6208	**DE BRG**	QJ213			
RATING	40C AMB-CONT			**NEMA-NOM-EFF**	91.7		**GREASE**	POLYREX EM					
						INV.TYPE	PWM						
TEMP CODE	T3		**INVERTER-TEMP-CODE**	200									
TEMP =	200	**C HP FR**	60		**C HP TO**	90							
CT HZ FROM	6		**CT HZ TO**	60									
HTR-VOLTS		**HTR-AMPS**		**HTR-WATTS**			**MAX. SPACE HEATER TEMP.**				**VT HZ FROM**	3	**VT HZ TO** 60

AC Induction Motor Performance Data
Record # 47264
Typical performance - not guaranteed values

Winding: 09WGY799-R020	**Type:** 0944M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			20	**Full Load Torque**	29.76 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			44/22	**Breakdown Torque**	121 LB-FT
R.P.M.			3540	**Pull-up Torque**	49.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	62.2 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	183 A
Service Factor (S.F.)			1.15	**No-load Current**	6.12 A
NEMA Nom. Eff.	91.7	**Power Factor**	92	**Line-line Res. @ 25ºC**	0.377 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	62°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	27.8
				Rotor inertia	1.12 LB-FT2

Load Characteristics 460 V, 60 Hz, 20 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	63	83	90	92	93	93	93
Efficiency	88.7	92.8	93.2	93.2	92.6	91.8	92.8
Speed	3583	3567	3551	3534	3516	3497	3523
Line amperes	8.14	12.12	16.69	21.89	27.18	33.06	25.1

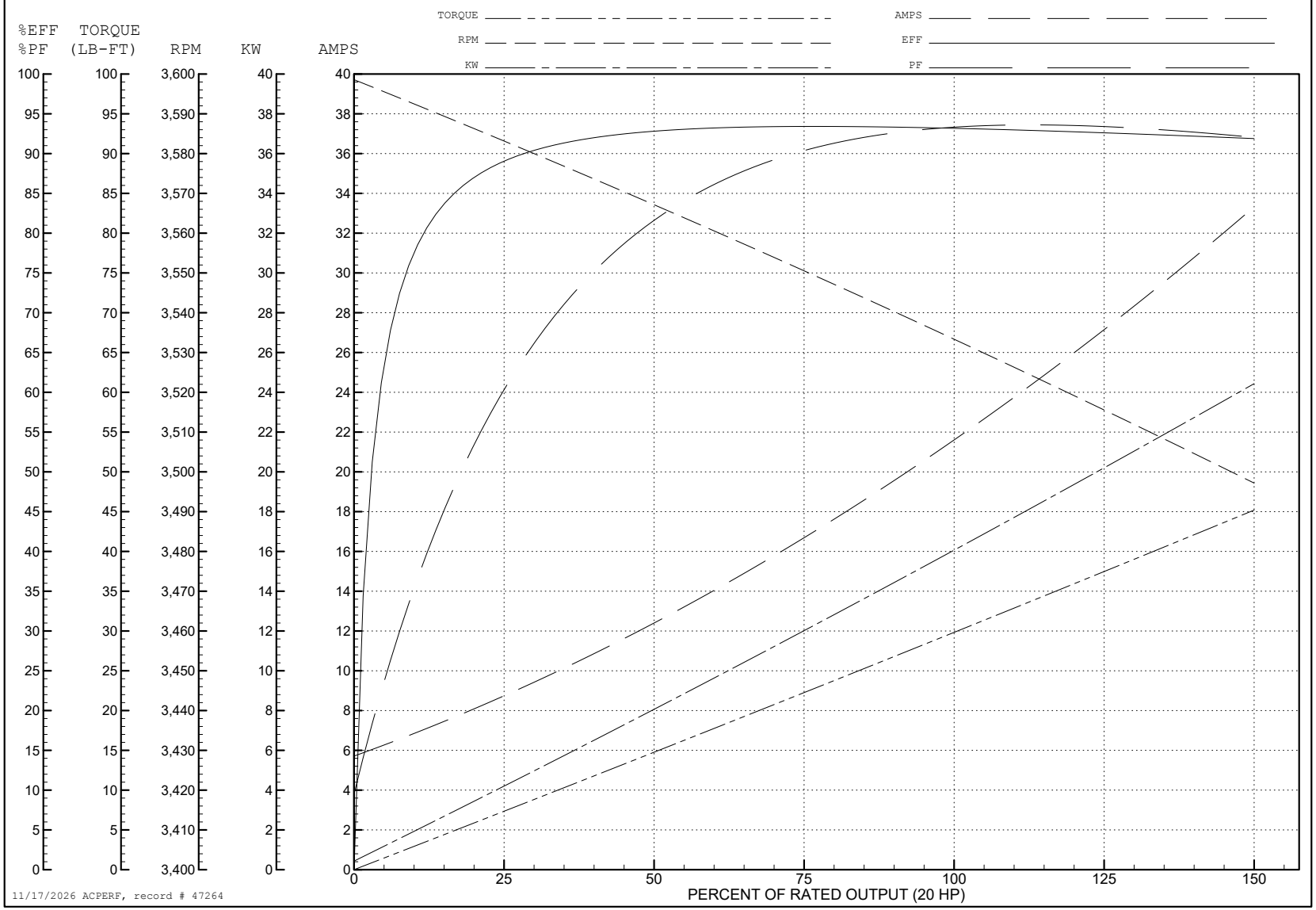
ABB Motors and Mechanical Inc.

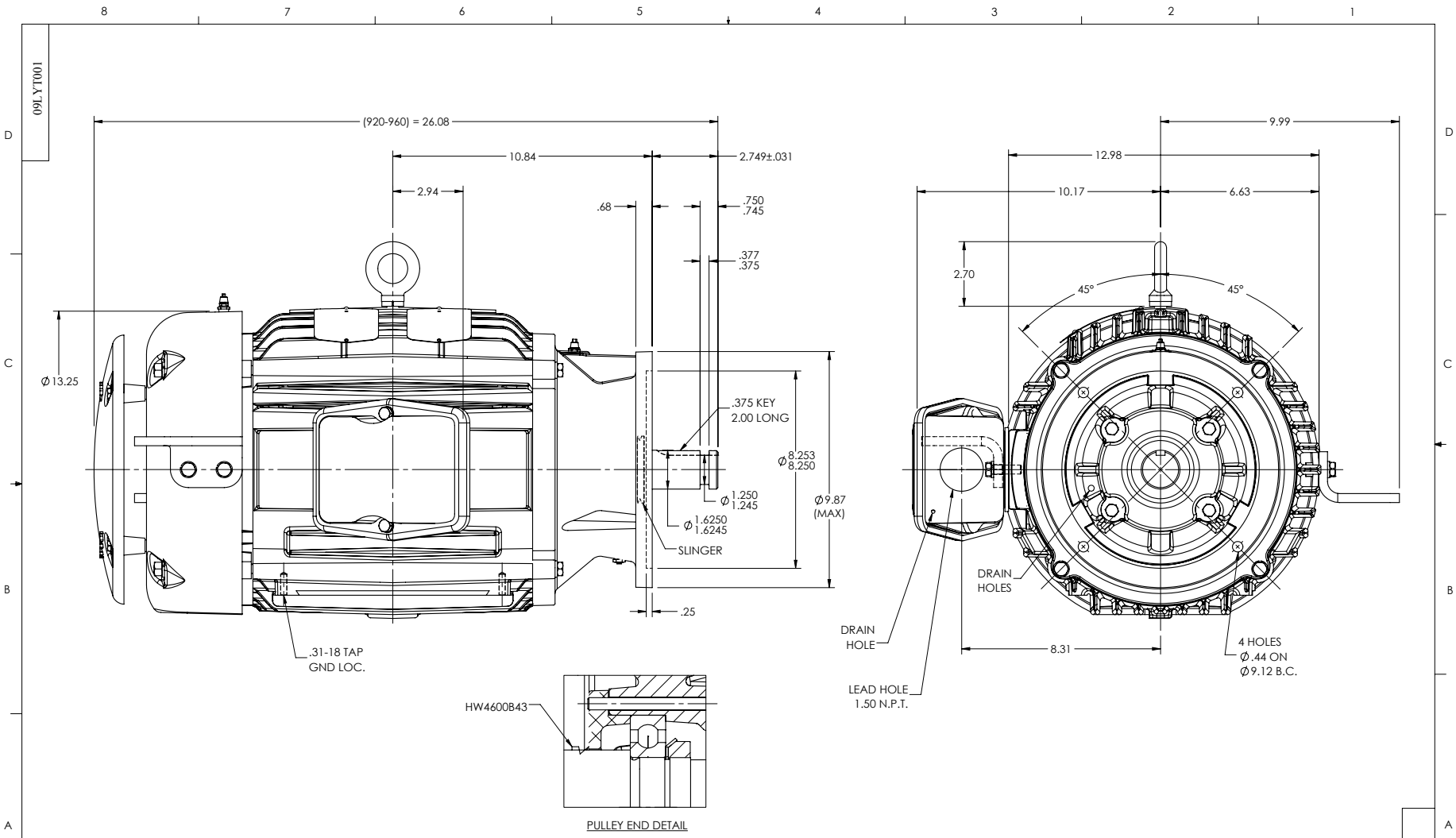
WINDING # 09WGY799

20 HP 3 PH 60 HZ 3540 RPM 460 V 0944M

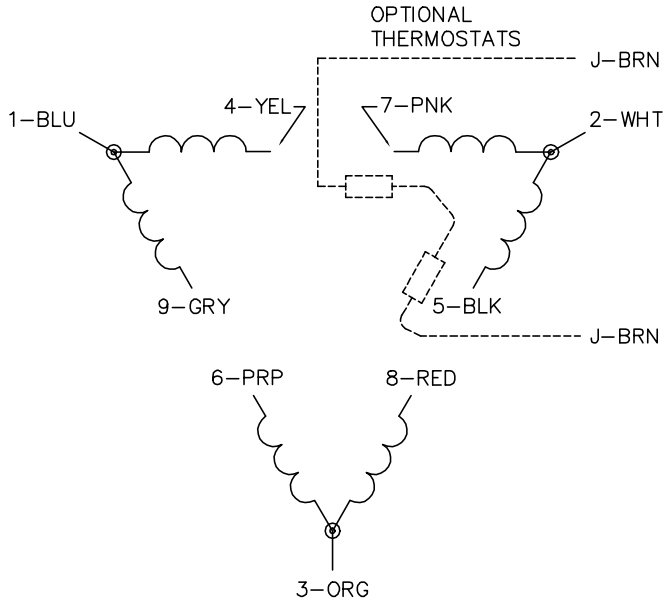
Typical performance - not guaranteed values.

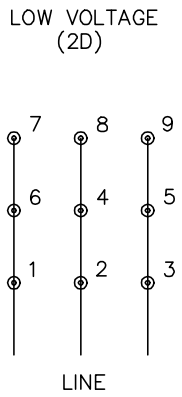
TORQUES(LB-FT): PO=121 PU=49.4 LR=62.2 LRA=183

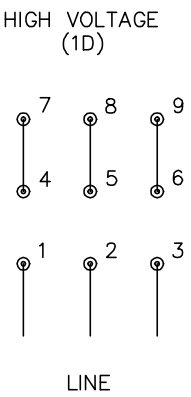



09LYT001
(920-960) = 26.08
10.84
2.749±.031
2.94
.68
.750
.745
.377
.375
Ø13.25
.375 KEY
2.00 LONG
Ø8.253
8.250
Ø1.250
1.245
Ø1.6250
1.6245
Ø9.87
(MAX)
SLINGER
.25
.31-18 TAP
GND LOC.
HW4600B43
PULLEY END DETAIL
9.99
12.98
10.17
6.63
2.70
45°
45°
DRAIN
HOLES
DRAIN
HOLE
LEAD HOLE
1.50 N.P.T.
8.31
4 HOLES
Ø.44 ON
Ø9.12 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: T
VERSION: 09
REVISED: 10:48:07 02/12/2020
TDR: 000001132140
MODEL NO. 09LYT001
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
VERT TEFC 254-6LP CP
09LYT001

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
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3PH, DV, 9 LEADS, DELTA CONNECTION

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