ABB BALDOR RELIANCE

Customer information packet

CEWDNM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3516M, TENV, F1, N
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 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	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.600 A @ 230.0 V
	2.800 A @ 208.0 V
	1.300 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	S
Type	AC
Mech. spec.	35T964
Base	
Status	PRD/A
Elec. spec.	35WGR933
Layout	35LYT964
Eff. date	11-06-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	02-12-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	1.3 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3516M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.06 IN
Power Factor	88
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP1669L									
CAT.NO.	CEWDNM3545								
SPEC.	35T964R933G2								
HP	1 20:1CT,20:1VT,1.00SF								
VOLTS	230/460								
AMP	2.6/1.3								
RPM	3450								
FRAME	56C		**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	L	**DES**	B	**CLASS**		F	
NEMA-NOM-EFF	82.5	**PF**	88						
RATING	40C AMB-CONT								
CC	010A								
DE	6205		**ODE**	6203					
ENCL	TENV	**SN**							
BLANK	SFA 3.2/1.6								

AC Induction Motor Performance Data
Record # 8818
Typical performance - not guaranteed values

Winding: 35WGR933-R001	**Type:** 3516M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.5 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.6/1.3	**Breakdown Torque**	7.5 LB-FT
R.P.M.			3450	**Pull-up Torque**	4.2 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.6 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	12.4 A
Service Factor (S.F.)			1.25	**No-load Current**	0.63 A
NEMA Nom. Eff.	82.5	**Power Factor**	88	**Line-line Res. @ 25ºC**	15.129 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	80°C
S.F. Amps			3.2/1.6	**Temp. Rise @ S.F. Load**	108°C
				Locked-rotor Power Factor	56
				Rotor inertia	0.0443 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	49	69	82	88	91	93	91
Efficiency	71.6	80.5	83.1	83.6	82.7	81.3	82.7
Speed	3560	3529	3494	3462	3423	3378	3423
Line amperes	0.7	0.85	1.04	1.28	1.58	1.86	1.58

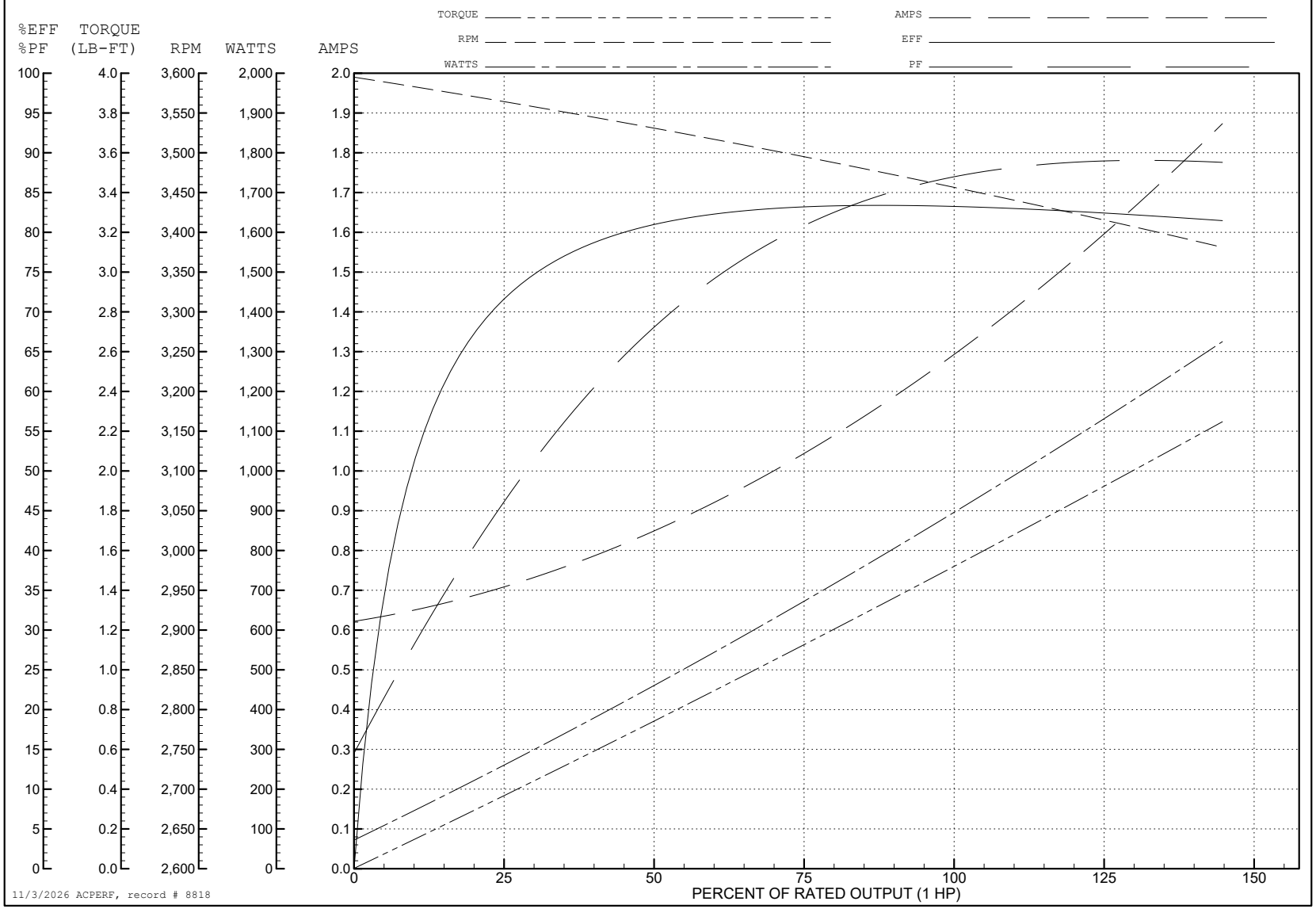
ABB Motors and Mechanical Inc.

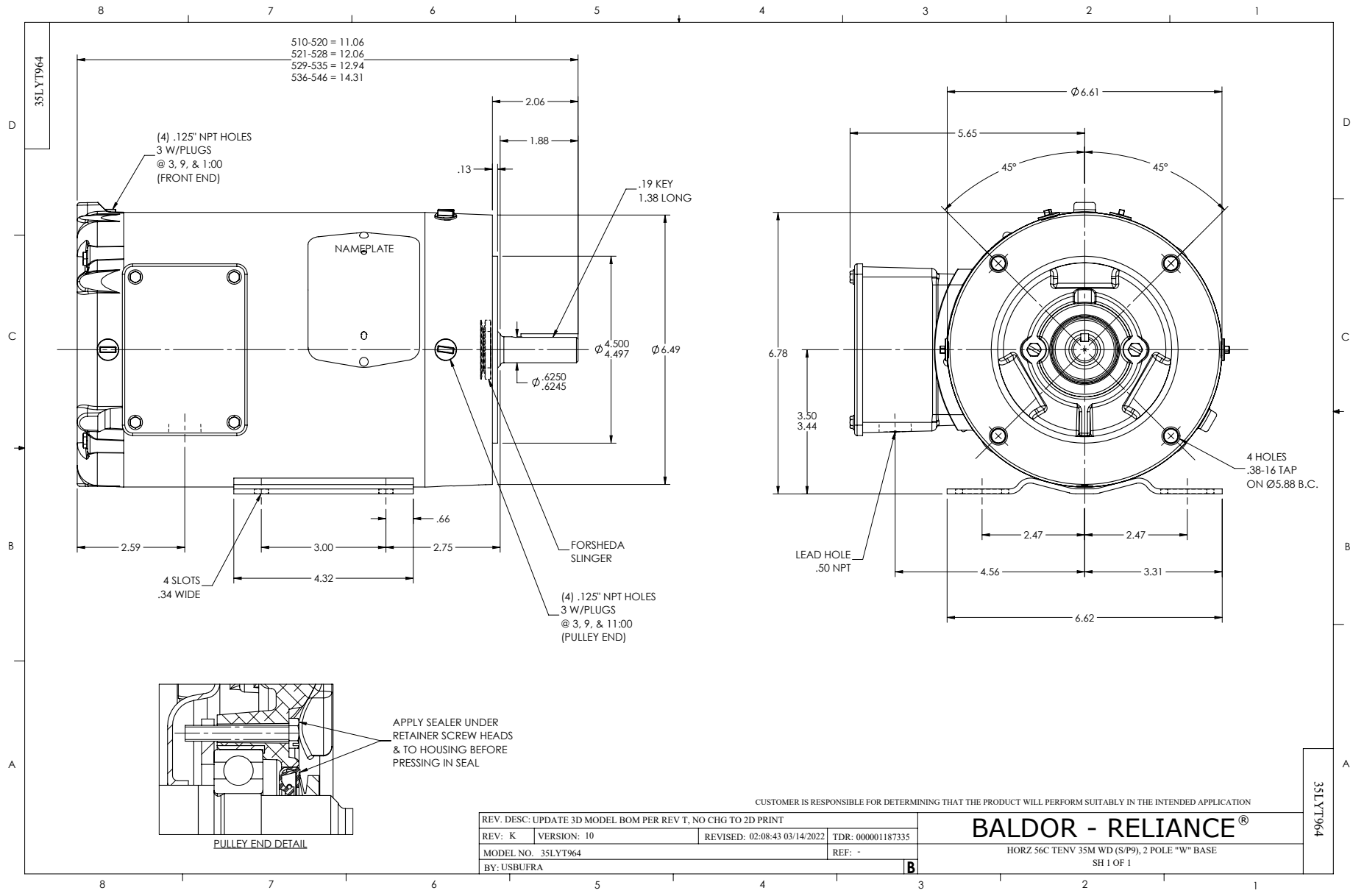
WINDING # 35WGR933

1 HP 3 PH 60 HZ 3450 RPM 460 V 3516M

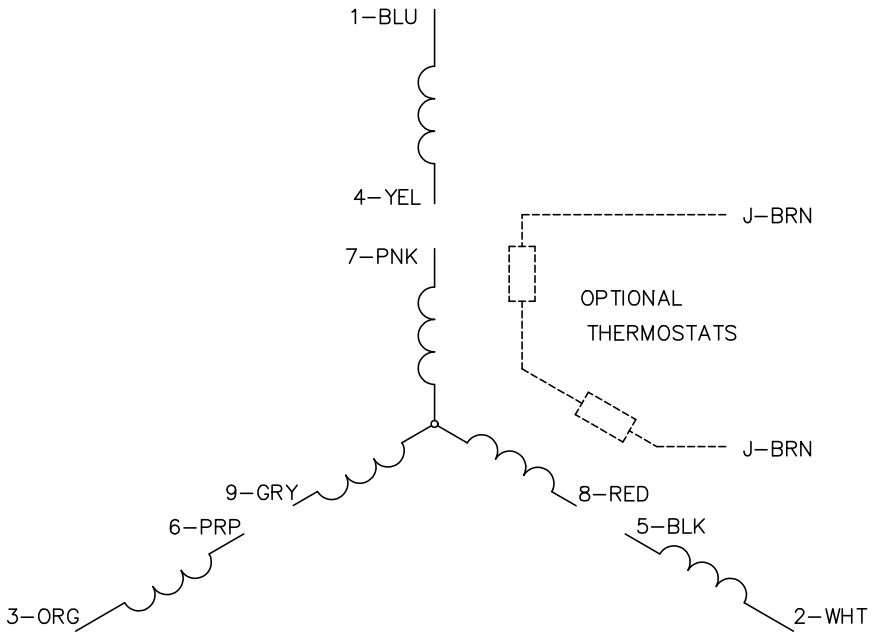
Typical performance - not guaranteed values.

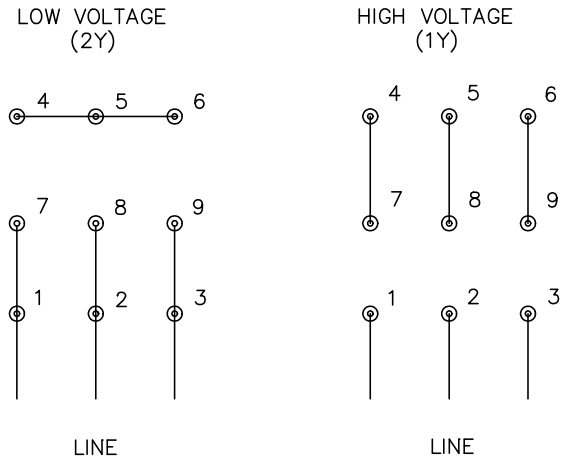
TORQUES(LB-FT): PO=7.5 PU=4.2 LR=5.6 LRA=12.4




35LYT964
510-520 = 11.06
521-528 = 12.06
529-535 = 12.94
536-546 = 14.31
2.06
1.88
.13
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø 6.49
Ø .6250
.6245
.66
2.59
3.00
2.75
4.32
4 SLOTS
.34 WIDE
FORSHEDA
SLINGER
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
Ø 6.61
5.65
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
.50 NPT
2.47
2.47
4.56
3.31
6.62
APPLY SEALER UNDER
RETAINER SCREW HEADS
& TO HOUSING BEFORE
PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV T, NO CHG TO 2D PRINT
REV: K
VERSION: 10
REVISED: 02:08:43 03/14/2022
TDR: 000001187335
MODEL NO. 35LYT964
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56C TENV 35M WD (S/P9), 2 POLE "W" BASE
SH 1 OF 1
35LYT964

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