Customer information packet

CWDM3545

1HP, 3450RPM, 3PH, 60HZ, 56C, 3516M, TENV, F1, N
Class -
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
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
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	RG
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.600 A @ 460.0 V
	3.600 A @ 230.0 V
	3.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	75.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.6 a

Part Detail

Revision	K
Type	AC
Mech. spec.	35T964
Base	
Status	INA/A
Elec. spec.	35WGY841
Layout	35LYT964
Eff. date	05-17-2016
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	01-08-2013

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
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	11.07 IN
Power Factor	72
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	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1496L								
CAT.NO.								
SPEC.	35T964Y841G1							
HP	1							
VOLTS	230/460							
AMP	3.6/1.6							
RPM	3450							
FRAME	56C	**HZ**	60			**PH**	3	
SER.F.	1.25	**CODE**	H	**DES**	B	**CLASS**	F	
NEMA-NOM-EFF	75.5	**PF**	72					
RATING	40C AMB-CONT							
CC								
DE	6205	**ODE**	6203					
ENCL	TENV	**SN**						
	SFA 3.8/1.9							

AC Induction Motor Performance Data
Record # 40883
Typical performance - not guaranteed values

Winding: 35WGY841-R002	**Type:** 3516M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	1.49 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			3.6/1.6	**Breakdown Torque**	10.4 LB-FT
R.P.M.			3450	**Pull-up Torque**	6.82 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	9.09 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	17.3 A
Service Factor (S.F.)			1.25	**No-load Current**	1.08 A
NEMA Nom. Eff.	75.5	**Power Factor**	72	**Line-line Res. @ 25ºC**	12.6 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	
S.F. Amps			3.8/1.9	**Temp. Rise @ S.F. Load**	
				Locked-rotor Power Factor	65
				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	37	54	67	75	79	83	79
Efficiency	57.4	70.2	75.2	77.6	78.6	78	78.6
Speed	3563	3535	3504	3477	3443	3404	3443
Line amperes	1.12	1.24	1.38	1.59	1.86	2.1	1.86

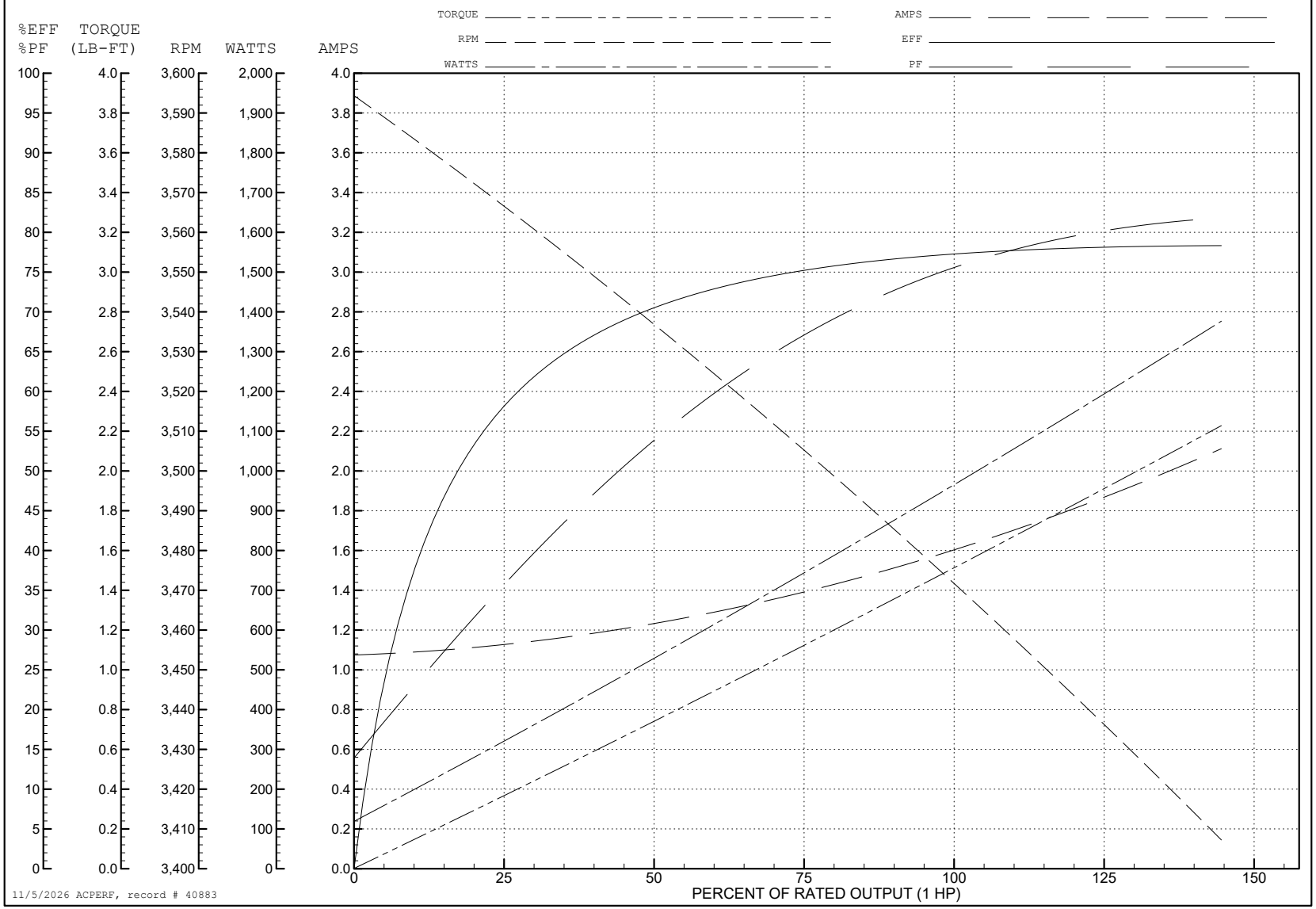
ABB Motors and Mechanical Inc.

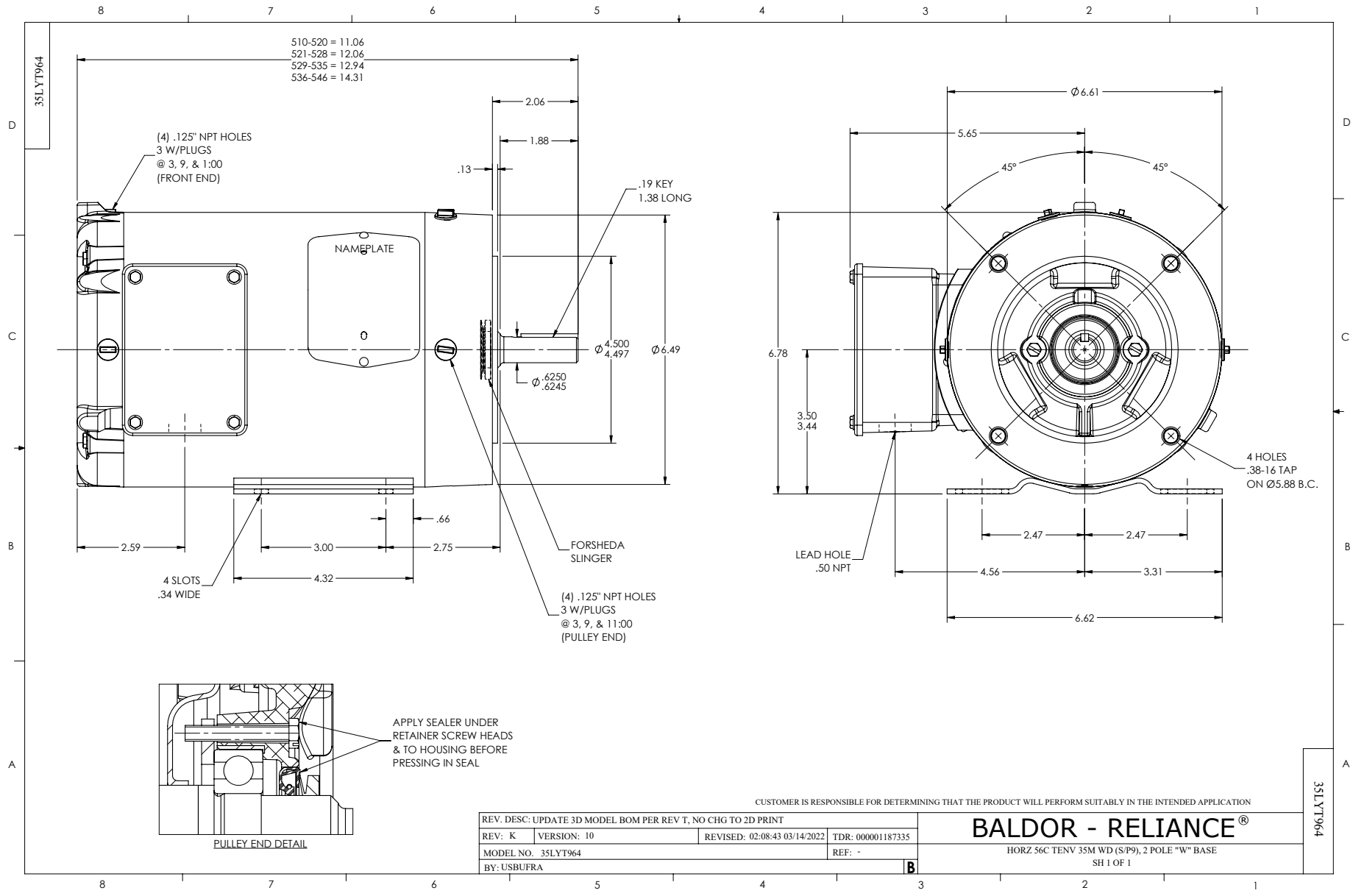
WINDING # 35WGY841

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

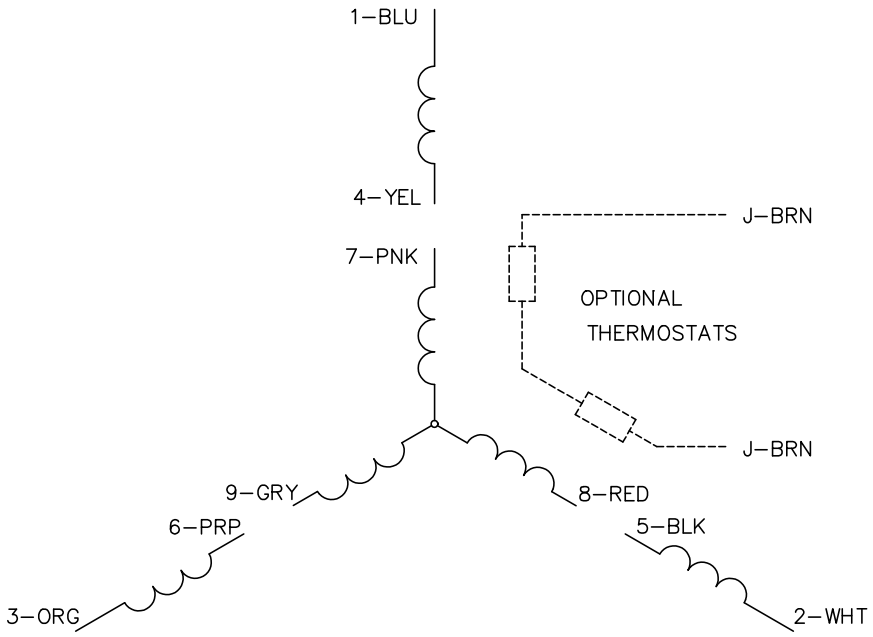
Typical performance - not guaranteed values.

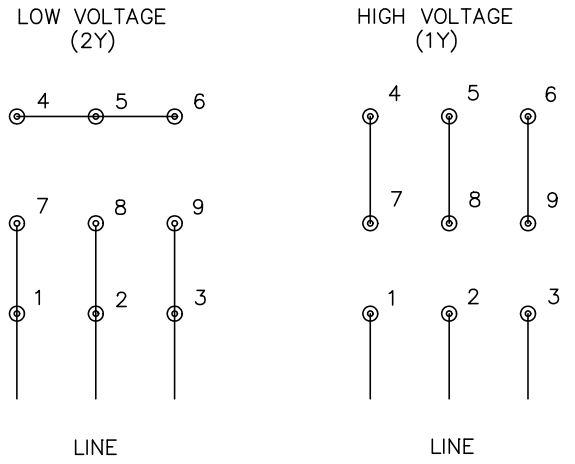
TORQUES(LB-FT): PO=10.4 PU=6.82 LR=9.09 LRA=17.3




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