ABB BALDOR RELIANCE

Customer information packet

CEWDM3545

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

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Specifications

Enclosure	TEFC
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	230.0 V @ 60 HZ
	460.0 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	None
Current @ Voltage	1.400 A @ 460.0 V
	2.800 A @ 230.0 V
	3.000 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AH
Type	AC
Mech. spec.	35T986
Base	
Status	PRD/A
Elec. spec.	35WGY474
Layout	35LYT986
Eff. date	08-28-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	04-27-2010

High Voltage Full Load Amps	1.4 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	K
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	12.24 IN
Power Factor	87
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

NP1669L									
CAT.NO.	CEWDM3545								
SPEC.	35T986Y474G1								
HP	1								
VOLTS	230/460								
AMP	2.8/1.4								
RPM	3450								
FRAME	56C	**HZ**	60			**PH**	3		
SER.F.	1.25	**CODE**	K	**DES**	B	**CLASS**	F		
NEMA-NOM-EFF	77	**PF**	87						
RATING	40C AMB-CONT								
CC	010A								
DE	6205	**ODE**	6203						
ENCL	TEFC	**SN**							
BLANK	SFA 3.4/1.7								

AC Induction Motor Performance Data
Record # 67481
Typical performance - not guaranteed values

Winding: 35WGY474-R032	**Type:** 3516M	**Enclosure:** TEFC

Nameplate Data		
Rated Output (HP)		1
Volts		230/460
Full Load Amps		2.8/1.4
R.P.M.		3450
Hz	60 **Phase**	3
NEMA Design Code	B **KVA Code**	K
Service Factor (S.F.)		1.25
NEMA Nom. Eff.	77 **Power Factor**	87
Rating - Duty		40C AMB-CONT
S.F. Amps		3.4/1.7

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.47 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.6 LB-FT
Pull-up Torque	2.56 LB-FT
Locked-rotor Torque	4.62 LB-FT
Starting Current	10.5 A
No-load Current	0.585 A
Line-line Res. @ 25ºC	20.016 Ω
Temp. Rise @ Rated Load	41°C
Temp. Rise @ S.F. Load	52°C
Locked-rotor Power Factor	64.1
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	55	72	82	86	89	91	89
Efficiency	58.7	71.7	76.4	77.6	77.4	75.9	77.4
Speed	3563.9	3532.9	3499.6	3459.6	3418.2	3365.9	3418
Line amperes	0.68	0.851	1.08	1.37	1.65	2.01	1.65

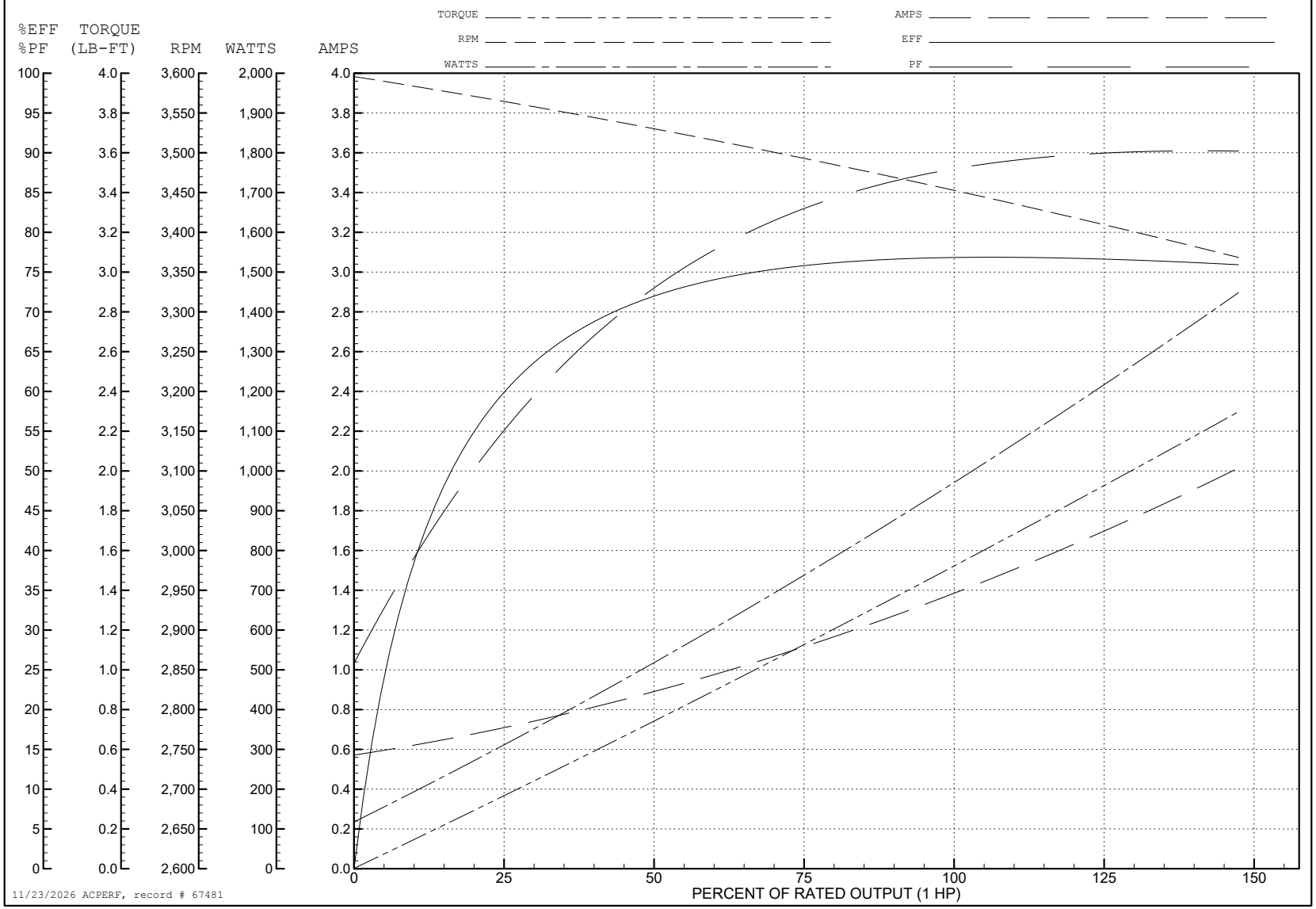
ABB Motors and Mechanical Inc.

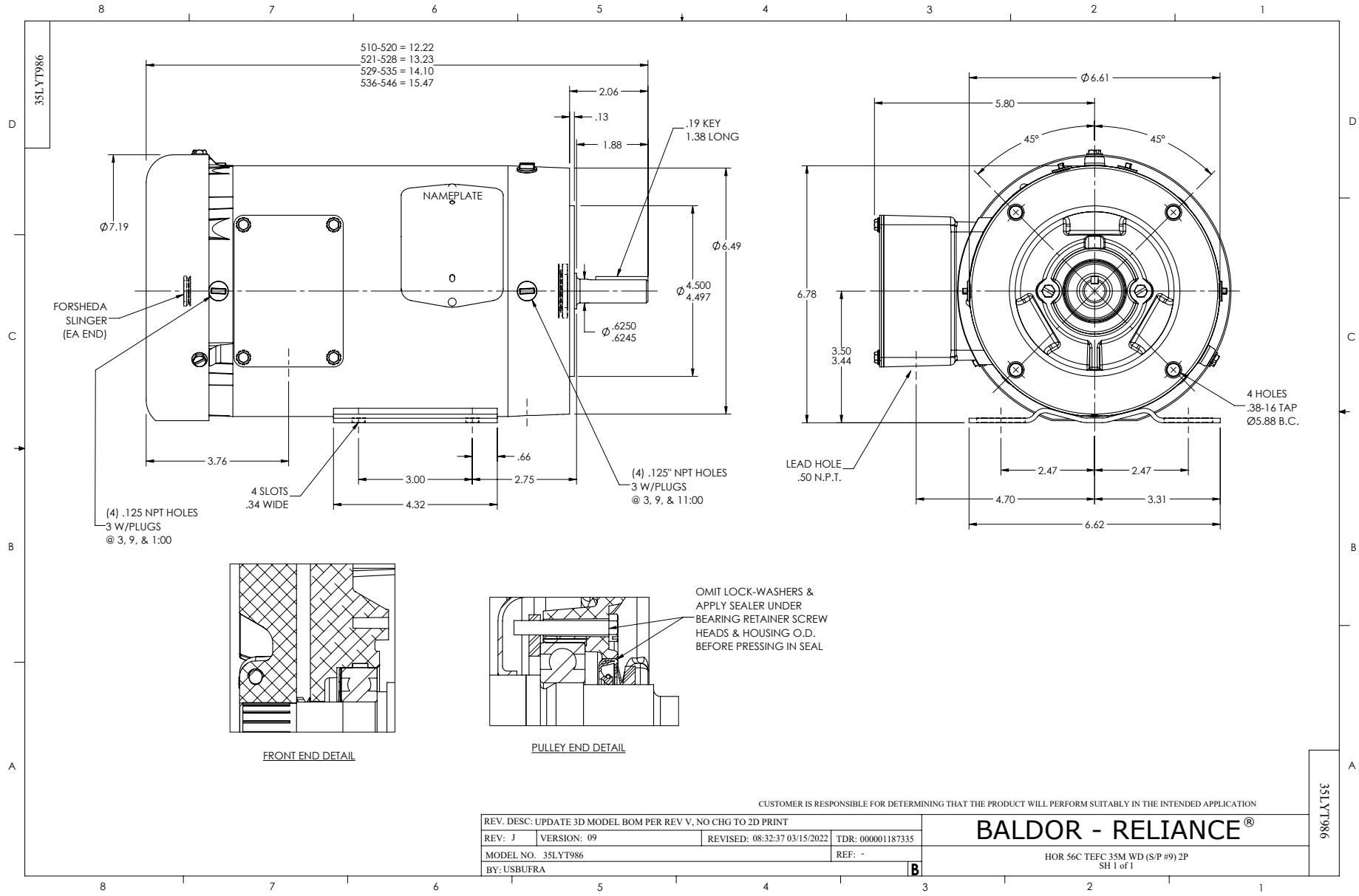
WINDING # 35WGY474

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

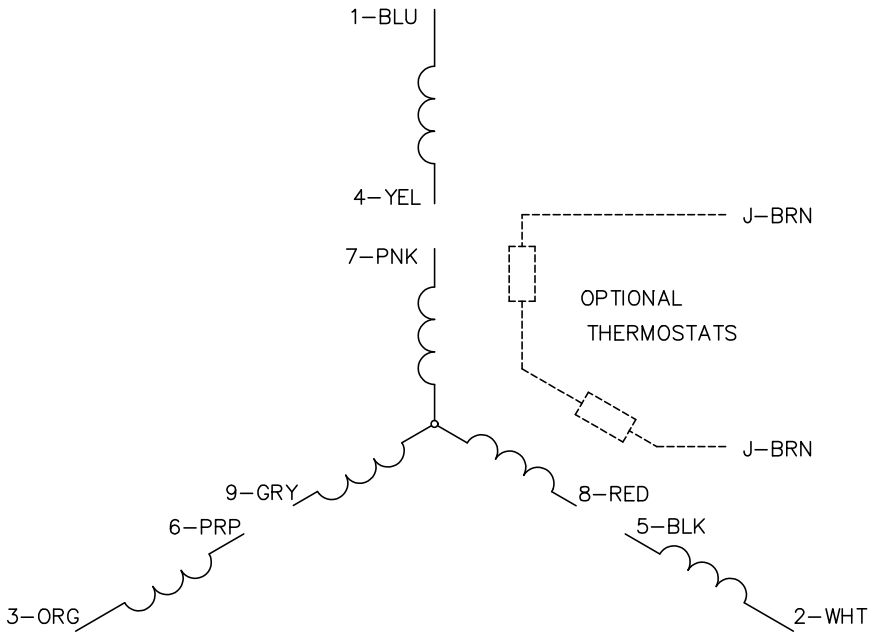
Typical performance - not guaranteed values.

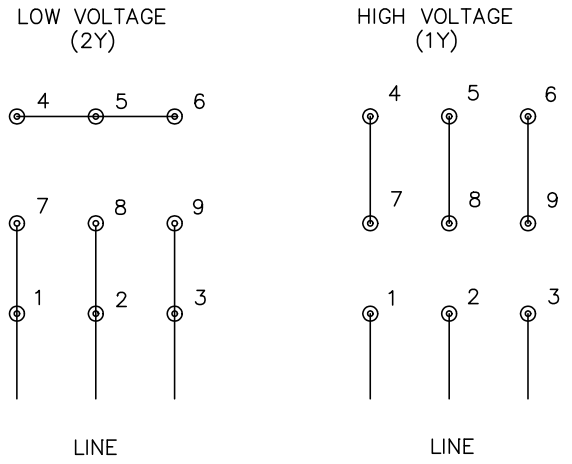
TORQUES(LB-FT): PO=5.6 PU=2.56 LR=4.62 LRA=10.5




35LYT986
510-520 = 12.22
521-528 = 13.23
529-535 = 14.10
536-546 = 15.47
2.06
.13
1.88
.19 KEY
1.38 LONG
NAMEPLATE
Ø7.19
Ø6.49
Ø4.500
4.497
Ø.6250
.6245
FORSHEDA
SLINGER
(EA END)
3.76
.66
3.00
2.75
4.32
4 SLOTS
.34 WIDE
(4) .125 NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
Ø6.61
5.80
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
Ø5.88 B.C.
LEAD HOLE
.50 N.P.T.
2.47
2.47
4.70
3.31
6.62
FRONT END DETAIL
PULLEY END DETAIL
OMIT LOCK-WASHERS &
APPLY SEALER UNDER
BEARING RETAINER SCREW
HEADS & HOUSING O.D.
BEFORE PRESSING IN SEAL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV V, NO CHG TO 2D PRINT
REV: J
VERSION: 09
REVISED: 08:32:37 03/15/2022
TDR: 000001187335
MODEL NO. 35LYT986
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR 56C TEFC 35M WD (S/P #9) 2P
SH 1 of 1
35LYT986

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