ABB BALDOR RELIANCE

Customer information packet

VESSWDM3555-5

2HP, 3501RPM, 3PH, 60HZ, 56C, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	56C
Frame Material	Stainless Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	2.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA NEMA PREMIUM 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
Current @ Voltage	2.000 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	2.0 a
Insulation Class	F
IP Rating	IP56
KVA Code	N

Part Detail

Revision	D
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGS908
Layout	35LY-000-013
Eff. date	07-27-2023
CD Diagram	CD0006
Poles	02
Leads	3#18
Proprietary	False
Created date	02-15-2019

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Mounting Arrangement	F1
Number of Poles	2
Overall Length	14.22 IN
Power Factor	85
Product Family	Wash Down All Stainless Steel
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3501 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1953A05							
CAT.NO.	VESSWDM3555-5						
SPEC.	35-0000-0020						
HP	2						
VOLTS	575						
AMP	2						
RPM	3501 SFA 3450						
FRAME	56C	**HZ**	60		**PH**	3	
SER.F.	1.15	**CODE**	N	**DES**	B	**CLASS**	F
NEMA-NOM-EFF	86.5	**PF**	85				
RATING	40C AMB-CONT						
CC	010A	**USABLE AT 208V**			N/A		
DE	6205	**ODE**	6203				
ENCL	TEFC	**SN**					
	4:1CT 20:1VT						

AC Induction Motor Performance Data
Record # 74297
Typical performance - not guaranteed values

Winding: 35WGS908-R016	**Type:** 3532M	**Enclosure:** TEFC

Nameplate Data				**575 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	3 LB-FT
Volts			575	**Start Configuration**	direct on line
Full Load Amps			2	**Breakdown Torque**	16 LB-FT
R.P.M.			3450	**Pull-up Torque**	12.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	16 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	24 A
Service Factor (S.F.)			1.15	**No-load Current**	0.86 A
NEMA Nom. Eff.	86.5	**Power Factor**	85	**Line-line Res. @ 25ºC**	7.94 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	31°C
S.F. Amps				**Temp. Rise @ S.F. Load**	36°C
				Locked-rotor Power Factor	45.4
				Rotor inertia	0.0885 LB-FT2

Load Characteristics 575 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	50	69	79	85	87	89	86
Efficiency	75.2	83.8	86.2	86.7	86.4	85.5	86.5
Speed	3571	3548	3525	3501	3476	3448	3486
Line amperes	1.02	1.32	1.67	2.04	2.46	2.91	2.29

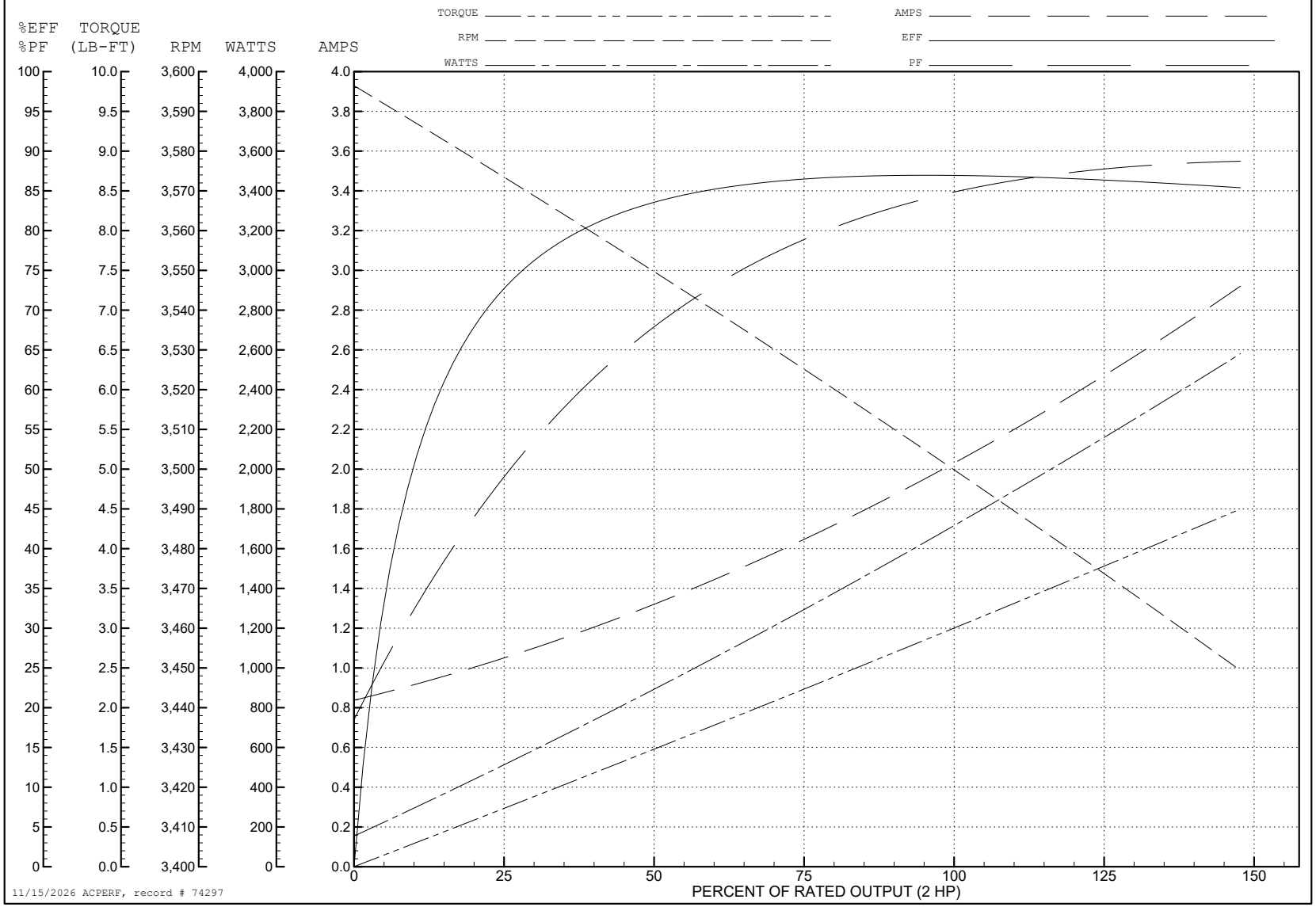
ABB Motors and Mechanical Inc.

WINDING # 35WGS908

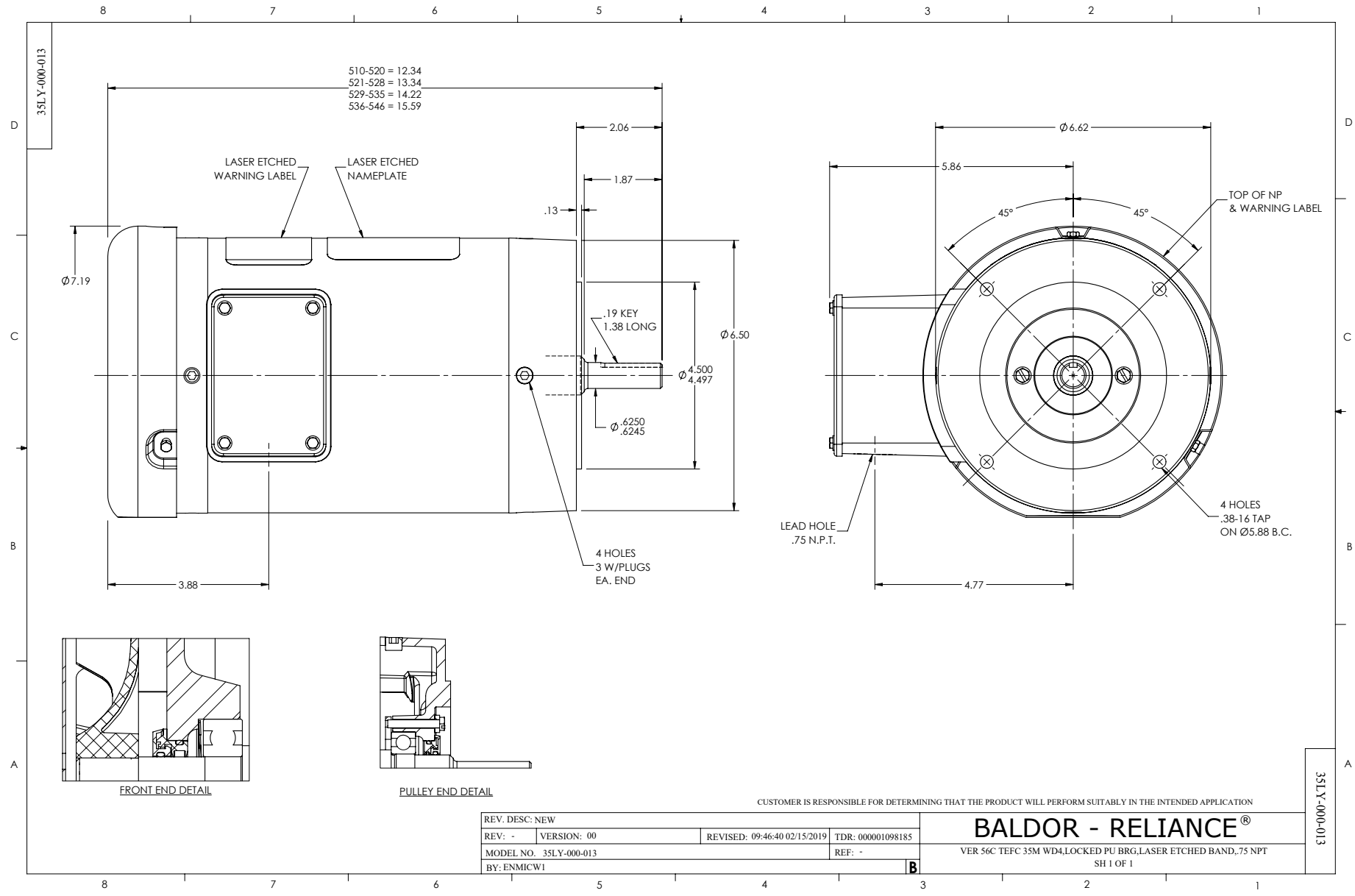
2 HP 3 PH 60 HZ 3450 RPM 575 V 3532M

Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=16 PU=12.5 LR=16 LRA=24

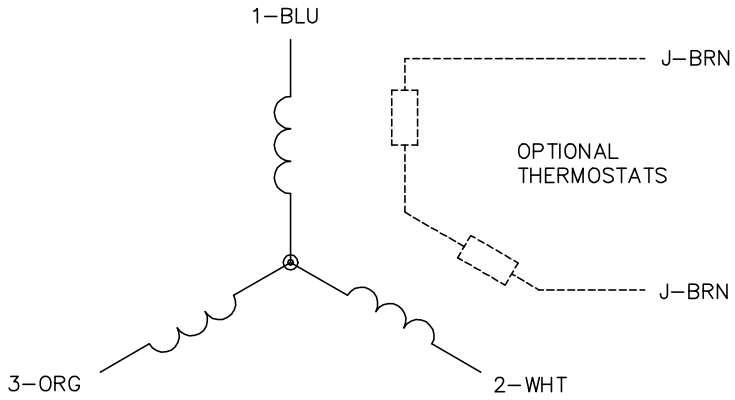


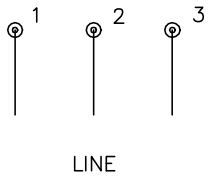
11/15/2026 ACPERF, record # 74297


35LY-000-013
510-520 = 12.34
521-528 = 13.34
529-535 = 14.22
536-546 = 15.59
2.06
1.87
.13
LASER ETCHED WARNING LABEL
LASER ETCHED NAMEPLATE
Ø7.19
.19 KEY
1.38 LONG
Ø6.50
Ø4.500
4.497
Ø.6250
.6245
4 HOLES
3 W/PLUGS
EA. END
3.88
Ø6.62
5.86
45°
45°
TOP OF NP
& WARNING LABEL
LEAD HOLE
.75 N.P.T.
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
4.77
FRONT END DETAIL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: NEW
REV: - VERSION: 00 REVISED: 09:46:40 02/15/2019 TDR: 000001098185
MODEL NO. 35LY-000-013 REF: -
BY: ENMICW1 B
BALDOR - RELIANCE®
VER 56C TEFC 35M WD4,LOCKED PU BRG,LASER ETCHED BAND,.75 NPT
SH 1 OF 1
35LY-000-013

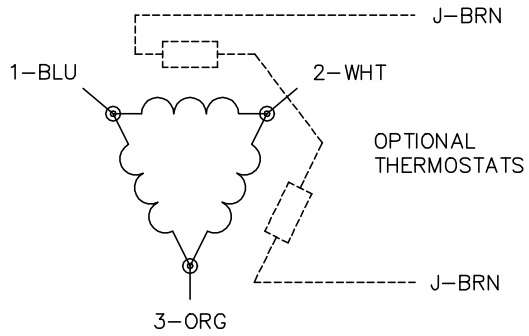
CD0006

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		
REV. LTR: E	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\141	REVISED: 10:24:49 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

SH 1 of 1