

ABB BALDOR RELIANCE III

Customer information packet

VESSWDM3555-5

2HP, 3501RPM, 3PH, 60HZ, 56C, TEFC, F1

Class - None

Division - Not Applicable

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										

Parts List

Part number	Description	Quantity
SA366306	SA 35-0000-0020	1.000 ea
RA355729	RA 35-0000-0020	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
35FH4005A39	IEC FH NO GREASER DEBURR/CLEAN - SS	1.000 ea
10XN1032S06	HEX HD CAP SCREW, SS	3.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3100S27	THRUBOLT 10-32 X 9.625 SS TDR #23687	4.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	4.000 ea
35EP1913A02	FR EP MADE FROM 35EP1913A01	1.000 ea
HW4606A01	JM CLIPPER/SEAL (WDE-0667-1064-BH49)	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
35EP1914A02	PU EP FOR LOCKED 6205 BRG	1.000 ea
HW4606A02	JM CLIPPER/SEAL (LWE-0938-1624-AL23)	1.000 ea
12XN1032S20	10-32 X 1-1/4 HEX M.S. , STAINLESS STEEL	2.000 ea
HA1049A01	DUBO LOK WASHER SIZE 10 (NYLON LOCK SEAL	2.000 ea
HA5027A02	HA4054 T-DRAIN X2 BAGGED WITH LABEL	1.000 ea
HW4500S33	1/8 NPT STAINLESS #304 SS PLUG	3.000 ea
35CB1004A09	35 CB .75 N.P.T @ 6:00	1.000 ea
35GS1041	35 MOLDED GASKET W/LIP, 1.12 LEAD HOLE,	1.000 ea
51XN1032A08	10-32 X 0.500 HX WS SL SR ZN	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35CB4515	35 CB LID #304 STAINLESS STEEL	1.000 ea
36GS3008SP	WHITE NEOPRENE KO BOX LID GASKET	1.000 ea
59XN0832S07	8/32 X 7/16 HX WS HD SER X	4.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
MJ5001A02	732 CL SEALANT 3 OZ DIXIE BEARING 289100	0.001 ea
36PA1000	PKG GRP, PRINT PK1016A08	1.000 ea
HW2502D13	SS KEY, 3/16 SQ X 1.375	1.000 ea

HA7000A04	KEY RETAINER 0.625 DIA SHAFTS	1.000 ea
FE-0000007	ZRTG FE ASSEMBLY	1.000 ea
PE-0000012	ZRTG PE ASSEMBLY	1.000 ea

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. @ 25°C		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

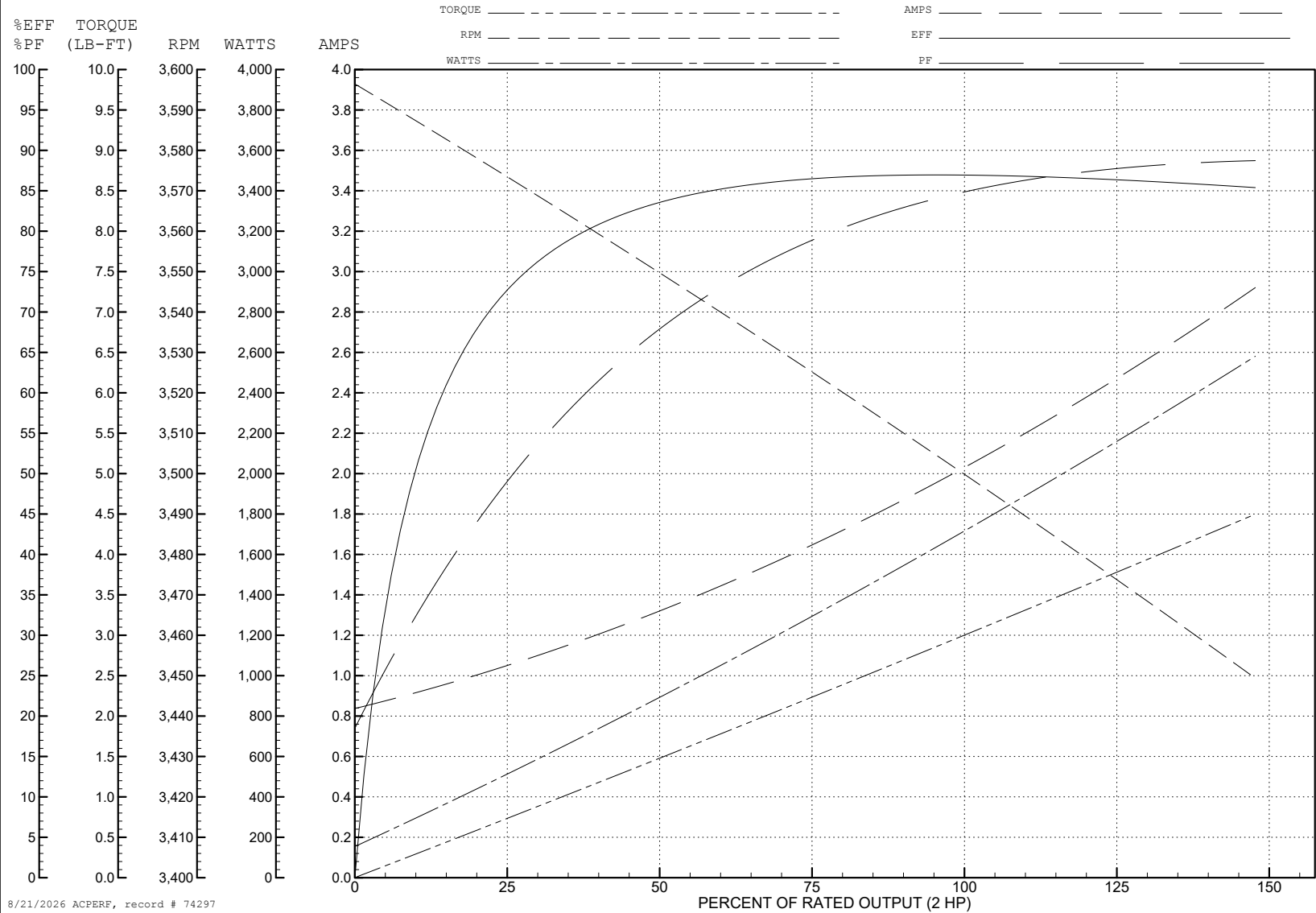
ABB Motors and Mechanical Inc.

WINDING # 35WGS908

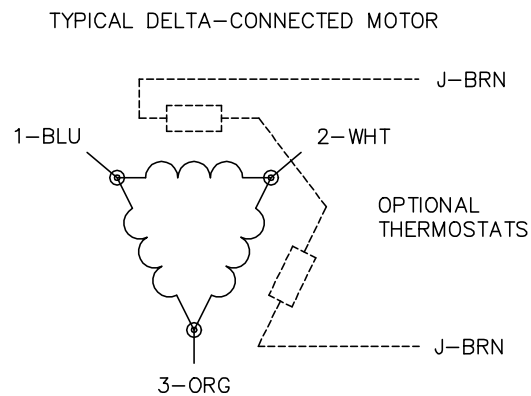
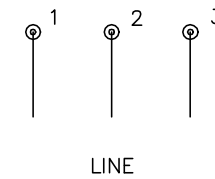
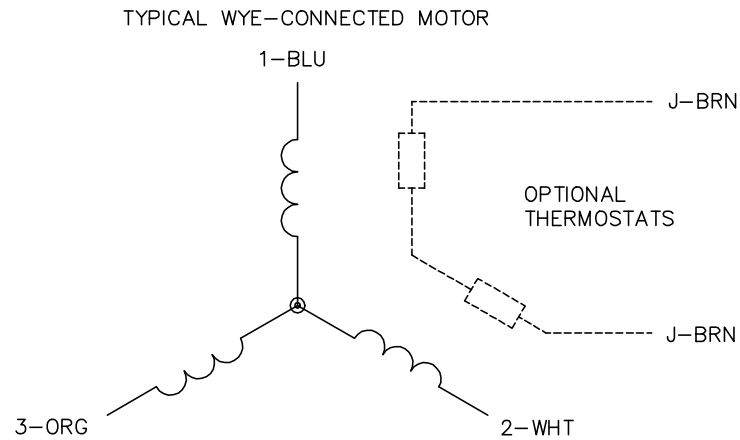
Typical performance - not guaranteed values.

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

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



CD0006



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: ENBRIRO

MTL: -



BALDOR - RELIANCE®

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

SH 1 of 1