

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										

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

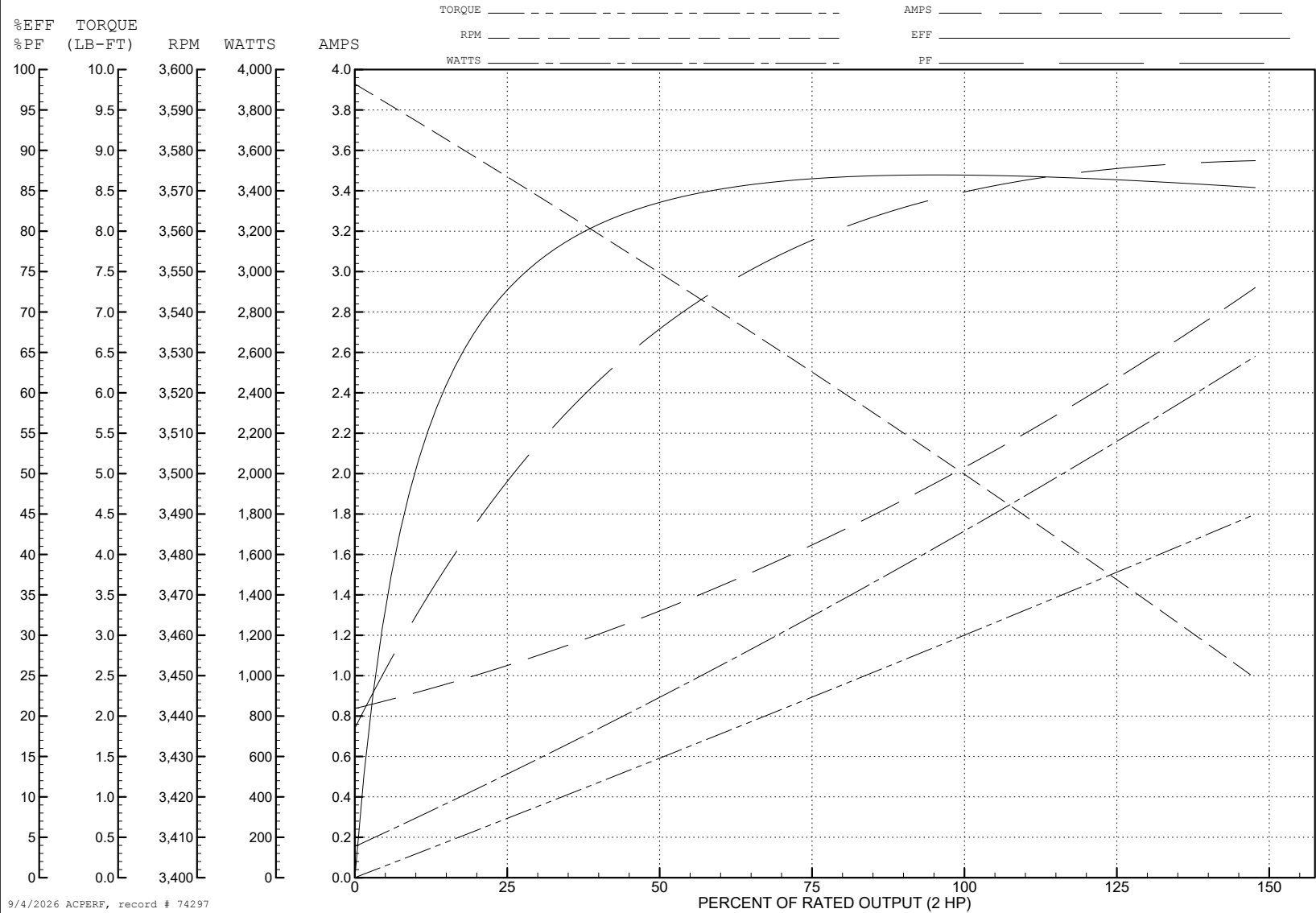
ABB Motors and Mechanical Inc.

WINDING # 35WGS908

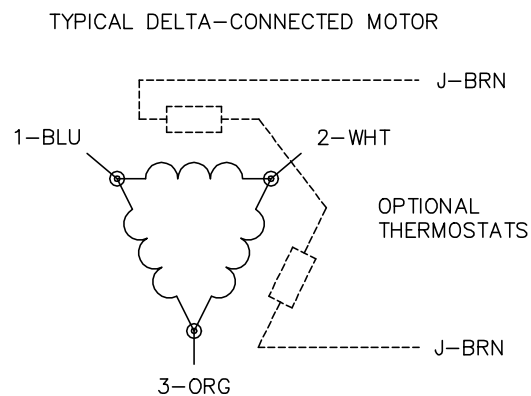
Typical performance - not guaranteed values.

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