

ABB BALDOR RELIANCE III

Customer information packet

VWDM3538-5

0.5HP, 1770RPM, 3PH, 60HZ, 56C, 3512M, TENV, F1

Class - None

Division - Not Applicable

Specifications

Enclosure	TENV
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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	CSA 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	.770 A @ 575.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	0.8 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M

Part Detail

Revision	B
Type	AC
Mech. spec.	35S603
Base	
Status	PRD/A
Elec. spec.	35WGG200
Layout	35LYS603
Eff. date	06-05-2025
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	11.06 IN
Power Factor	62
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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.	VWDM3538-5										
SPEC.	35S603G200G1										
HP	0.5										
VOLTS	575										
AMP	0.77										
RPM	1770										
FRAME	56C		HZ	60			PH	3			
SER.F.	1.25		CODE	M	DES	B	CLASS	F			
NEMA-NOM-EFF	80		PF	62							
RATING	40C AMB-CONT										
CC											
DE	6205		ODE	6203							
ENCL	TENV		SN								
	SFA .8										

AC Induction Motor Performance Data

Record # 87485

Typical performance - not guaranteed values

Winding: 35WGG200-R004			Type: 3512M	Enclosure: TENV	
Nameplate Data			575 V, 60 Hz: Single Voltage Motor		
Rated Output (HP)		.5	Full Load Torque		1.49 LB-FT
Volts		575	Start Configuration		direct on line
Full Load Amps		.77	Breakdown Torque		6.26 LB-FT
R.P.M.		1770	Pull-up Torque		3.25 LB-FT
Hz	60 Phase	3	Locked-rotor Torque		4.02 LB-FT
NEMA Design Code		B	Starting Current		5.36 A
Service Factor (S.F.)		1.25	No-load Current		0.636 A
NEMA Nom. Eff.		80	Power Factor		62
Rating - Duty		40C	AMB-CONT		
S.F. Amps		.87	Temp. Rise @ Rated Load		29°C
			Temp. Rise @ S.F. Load		34°C
			Locked-rotor Power Factor		71
			Rotor inertia		0.0866 lb-ft²

Load Characteristics 575 V, 60 Hz, 0.5 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	27	41	52	62	69	75	57
Efficiency	56.2	70.6	76.3	78.9	79.9	79.8	77.6
Speed	1792	1786	1779	1771	1763	1755	1774
Line amperes	0.638	0.664	0.713	0.774	0.85	0.946	0.704

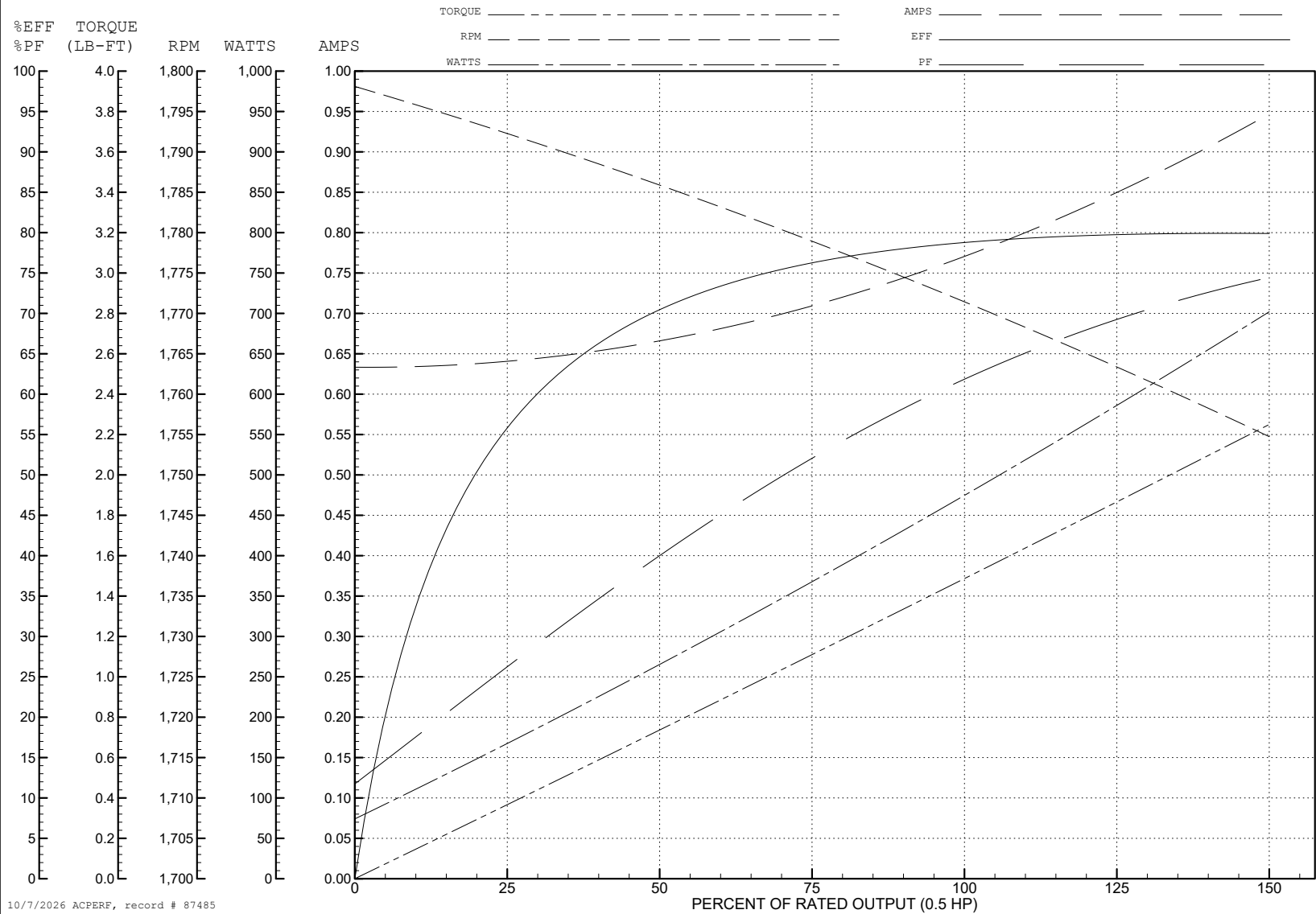
ABB Motors and Mechanical Inc.

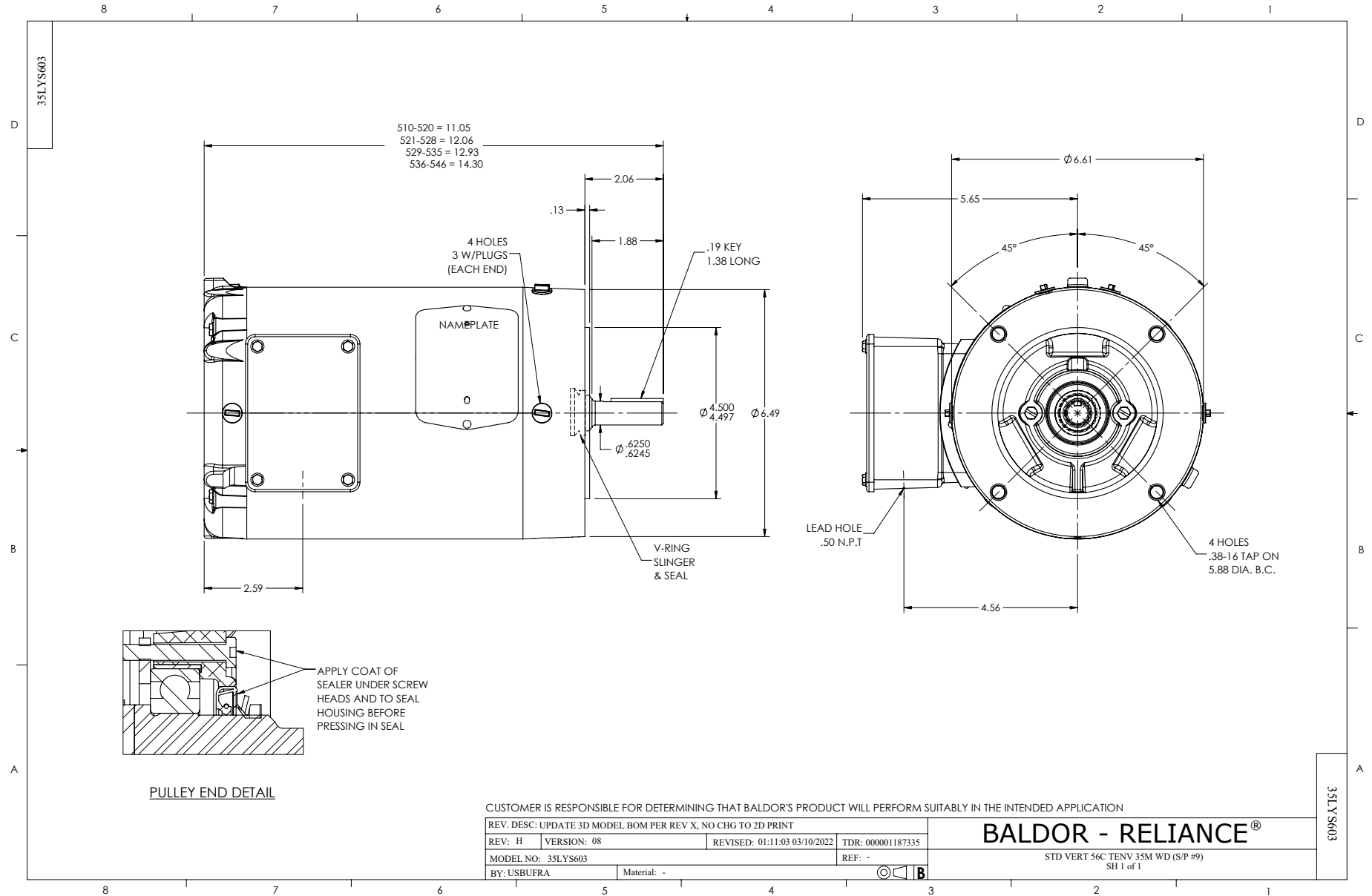
WINDING # 35WGG200

Typical performance - not guaranteed values.

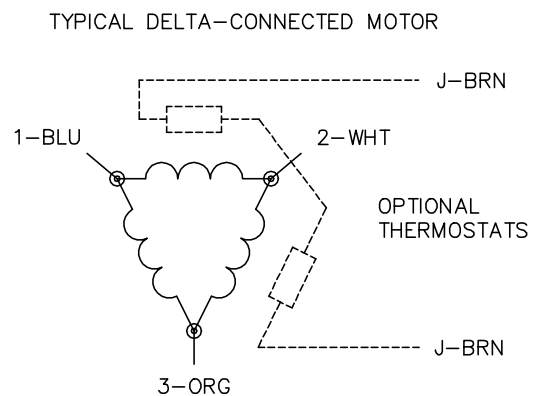
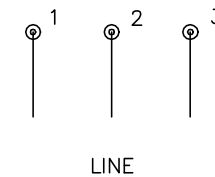
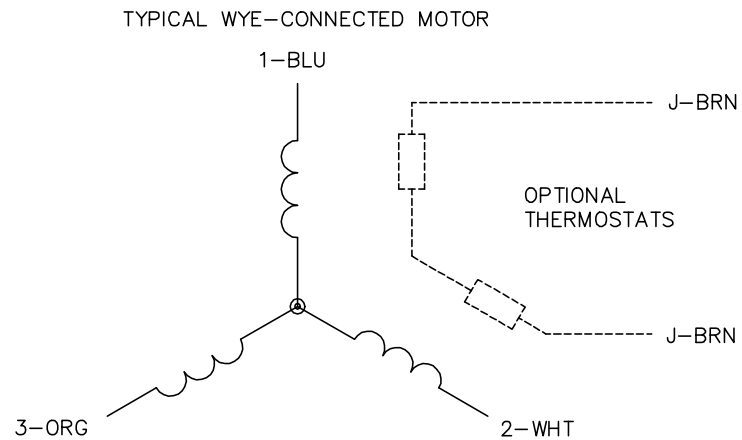
0.5 HP 3 PH 60 HZ 1770 RPM 575 V 3512M

TORQUES (LB-FT): PO=6.26 PU=3.25 LR=4.02 LRA=5.36





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