



Customer information packet

VBM3538-5S

0.5HP, 1770RPM, 3PH, 60HZ, 56C, 3512M, TEFC, F3

Class - None

Division - Not Applicable

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	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 HZ
Agency Approvals	C UR US WEEE UKCA CURUS CE
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

Part detail

Revision	C
Type	AC
Mech. spec.	35X055
Base	
Status	PRD/A
Elec. spec.	35WGG200
Layout	35LYX055
Eff. date	04-16-2024
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	03-11-2022

Insulation Class	F
Inverter Code	Not Inverter
KVA Code	M
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	F3
Number of Poles	4
Overall Length	14.37 IN
Power Factor	62
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No 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

NP1372L												
CAT.NO.	VBM3538-5S											
SPEC.	35X055G200G1											
HP	0.5											
VOLTS	575											
AMP	0.77											
R.P.M. (1/MIN)	1770											
FRAME	56C		HZ		60			PH		3		
SER.F.	1.15	CODE		M	DES	B	CL	F				
NEMA-NOM-EFF	80	PF		62								
RATING	40C AMB-CONT											
CC			IP44 IC411 KG									
DE	6205		ODE		6205							
ENCL	TEFC	SN										
	SFA .83											

AC Induction Motor Performance Data

Record # 82252

Typical performance - not guaranteed values

Winding: 35WGG200-R002				Type: 3512M		Enclosure: TEFC	
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	KVA Code	M	Starting Current		5.36 A
Service Factor (S.F.)		1.25		No-load Current		0.636 A	
NEMA Nom. Eff.		80	Power Factor	62	Line-line Res. @ 25°C		68 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		22°C	
S.F. Amps		.87		Temp. Rise @ S.F. Load		27°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	69
Efficiency	56.2	70.6	76.3	78.9	79.9	79.8	79.9
Speed	1792	1786	1779	1771	1763	1755	1763
Line amperes	0.638	0.664	0.713	0.774	0.85	0.946	0.85

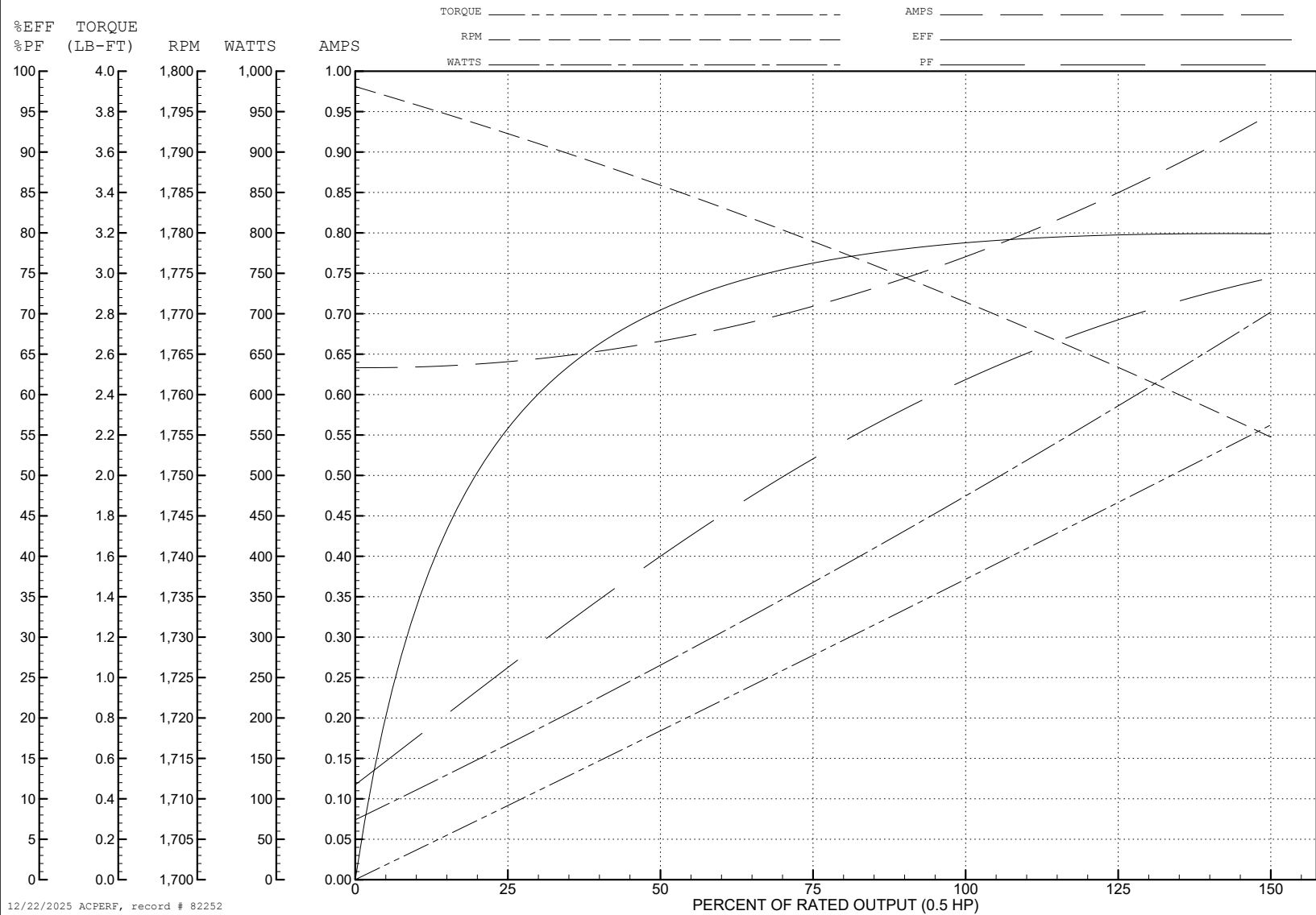
ABB Motors and Mechanical Inc.

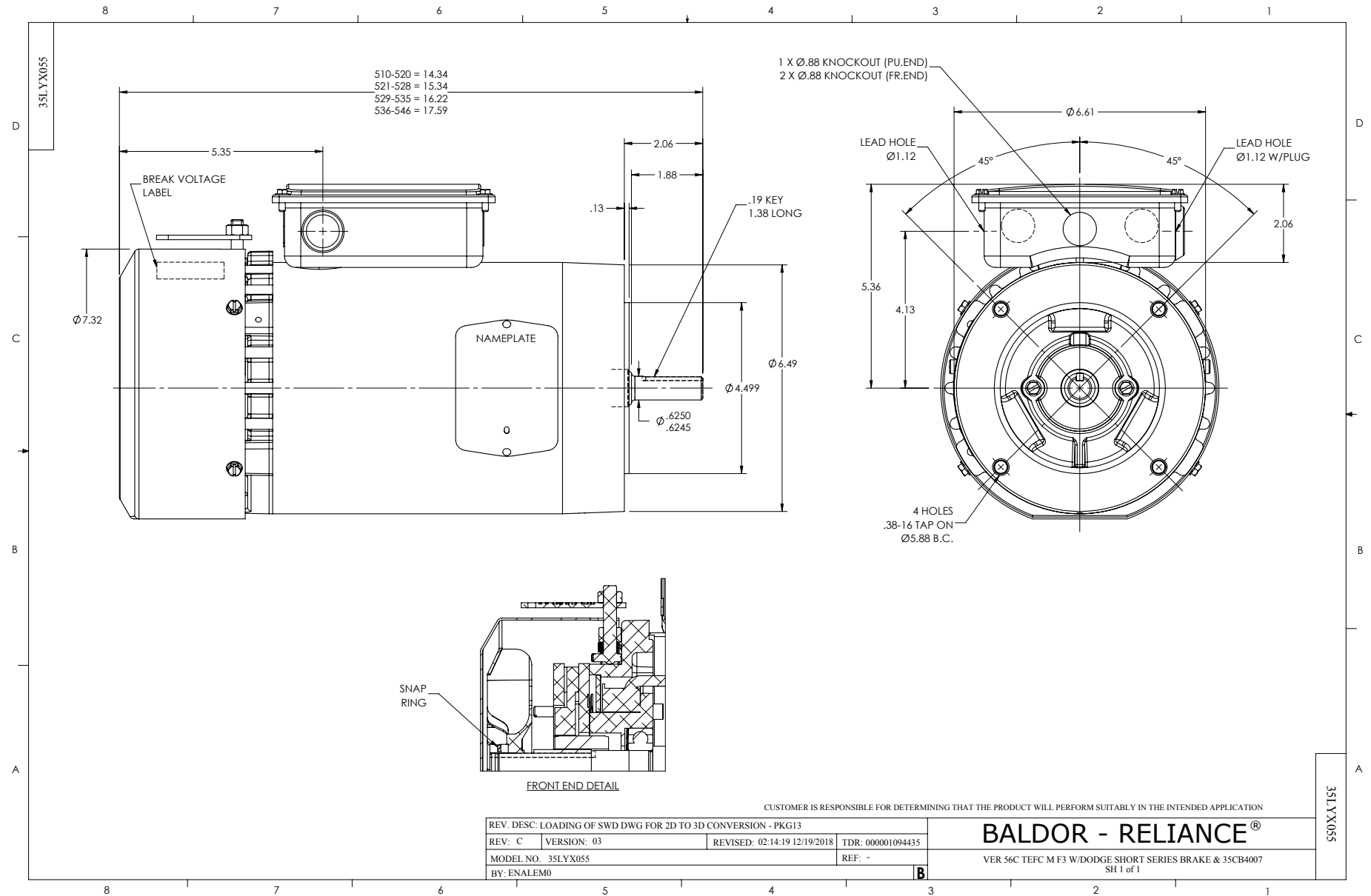
WINDING # 35WGG200

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
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MTL: —		

BALDOR - RELIANCE®

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

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