ABB BALDOR RELIANCE

Customer information packet

17E847X168

1HP, 1725RPM, 3PH, 60HZ, 56J, 1724M, OPEN, F1, N

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Specifications

Frame	56J
Frame Material	Steel
Frequency	60.00 Hz
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	208.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CE
	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	3.500 A @ 208.0 V
	3.600 A @ 230.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	74.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Drip Cover Mounting
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	3.5 a
Insulation Class	B
Inverter Code	Not Inverter
KVA Code	L

Part Detail

Revision	K
Type	AC
Mech. spec.	17E847
Base	
Status	NLA/A
Elec. spec.	17WGX168
Layout	17LYE847
Eff. date	04-24-2013
CD Diagram	CD0006
Poles	04
Leads	3#16
Proprietary	False
Created date	04-11-2007

Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	3 @ 16 AWG
Motor Lead Termination	None
Motor Standards	NEMA
Motor Type	1724M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.08 IN
Power Factor	70
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Ext Thread
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.000 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1725 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Nameplate

NP1203A									
CAT.NO.						**ENCL**	OPEN		
SPEC.	17E847X168					**FRAME**	56J		
HP	1								
VOLTS	208-230								
AMPS	3.5-3.6								
RPM	1725								
HZ	60	**PH**	3	**CL**	B				
SER.F.	1.15	**DES**	B	**CODE**	L				
FL EFF	74	**PF**	70						
RATING	40C AMB-CONT								
SF AMP						**USABLE AT 208V**	N/A		
S/N									
MANUAL	N	**AUTO**	N	**NONE**	Y				

AC Induction Motor Performance Data
Record # 36368
Typical performance - not guaranteed values

Winding: 17WGX168-R001	**Type:** 1724M	**Enclosure:** OPEN

Nameplate Data			**230 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)		1	**Full Load Torque**	3.05 LB-FT
Volts		208-230	**Start Configuration**	direct on line
Full Load Amps		3.5-3.6	**Breakdown Torque**	12.3 LB-FT
R.P.M.		1725	**Pull-up Torque**	8.18 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	9.8 LB-FT
NEMA Design Code	B **KVA Code**	L	**Starting Current**	23.4 A
Service Factor (S.F.)		1.15	**No-load Current**	2.62 A
NEMA Nom. Eff.	74 **Power Factor**	70	**Line-line Res. @ 25ºC**	4.628 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	57°C
S.F. Amps			**Temp. Rise @ S.F. Load**	64°C
			Locked-rotor Power Factor	73
			Rotor inertia	0.0569 LB-FT2

Load Characteristics 230 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	48	60	70	75	80	73
Efficiency	55	70.1	73.7	74.6	77.6	75.5	76.4
Speed	1785	1771	1757	1738	1723	1701	1729
Line amperes	2.7	2.9	3.2	3.62	4	2.56	3.85

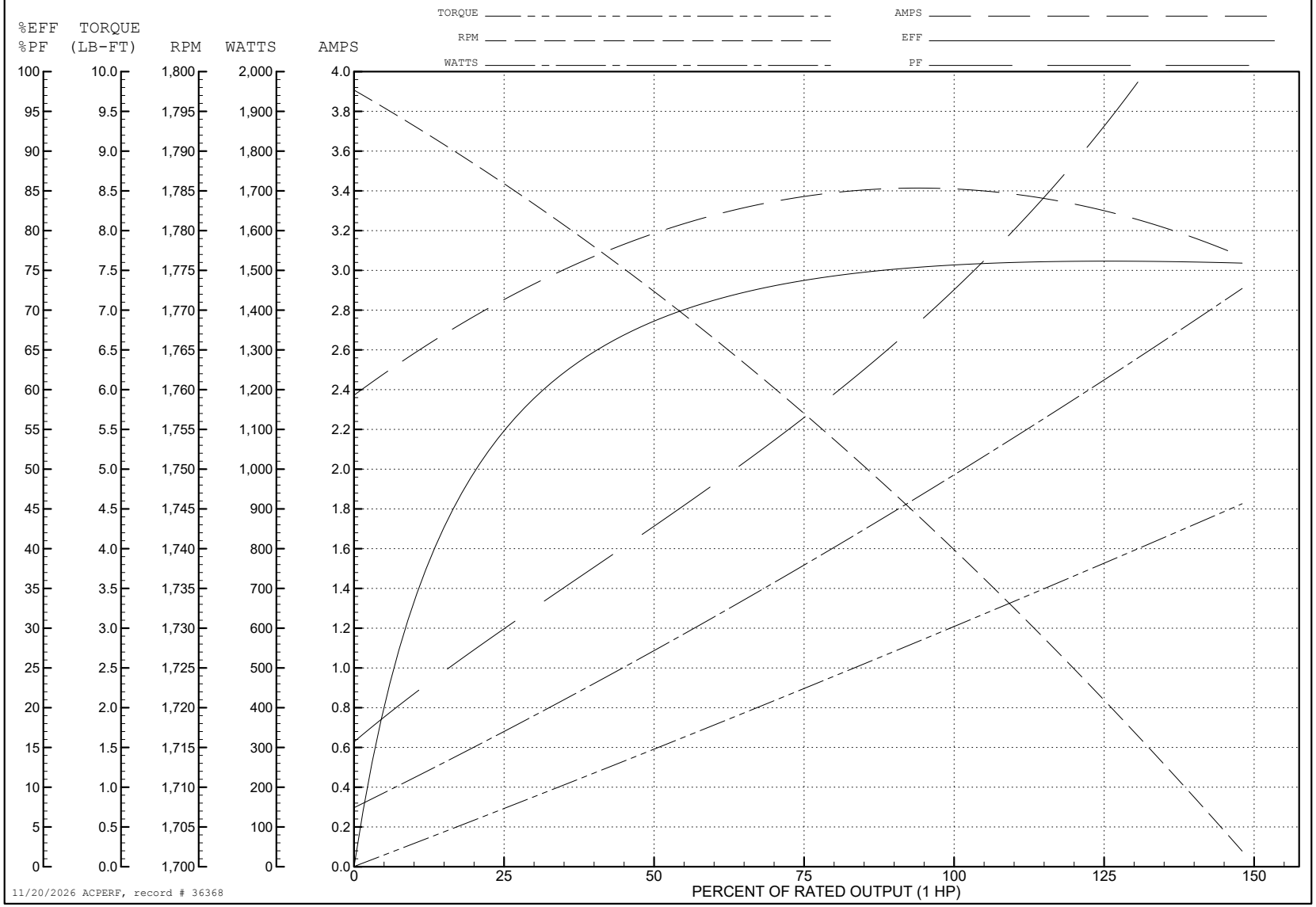
ABB Motors and Mechanical Inc.

WINDING # 17WGX168

1 HP 3 PH 60 HZ 1725 RPM 230 V 1724M

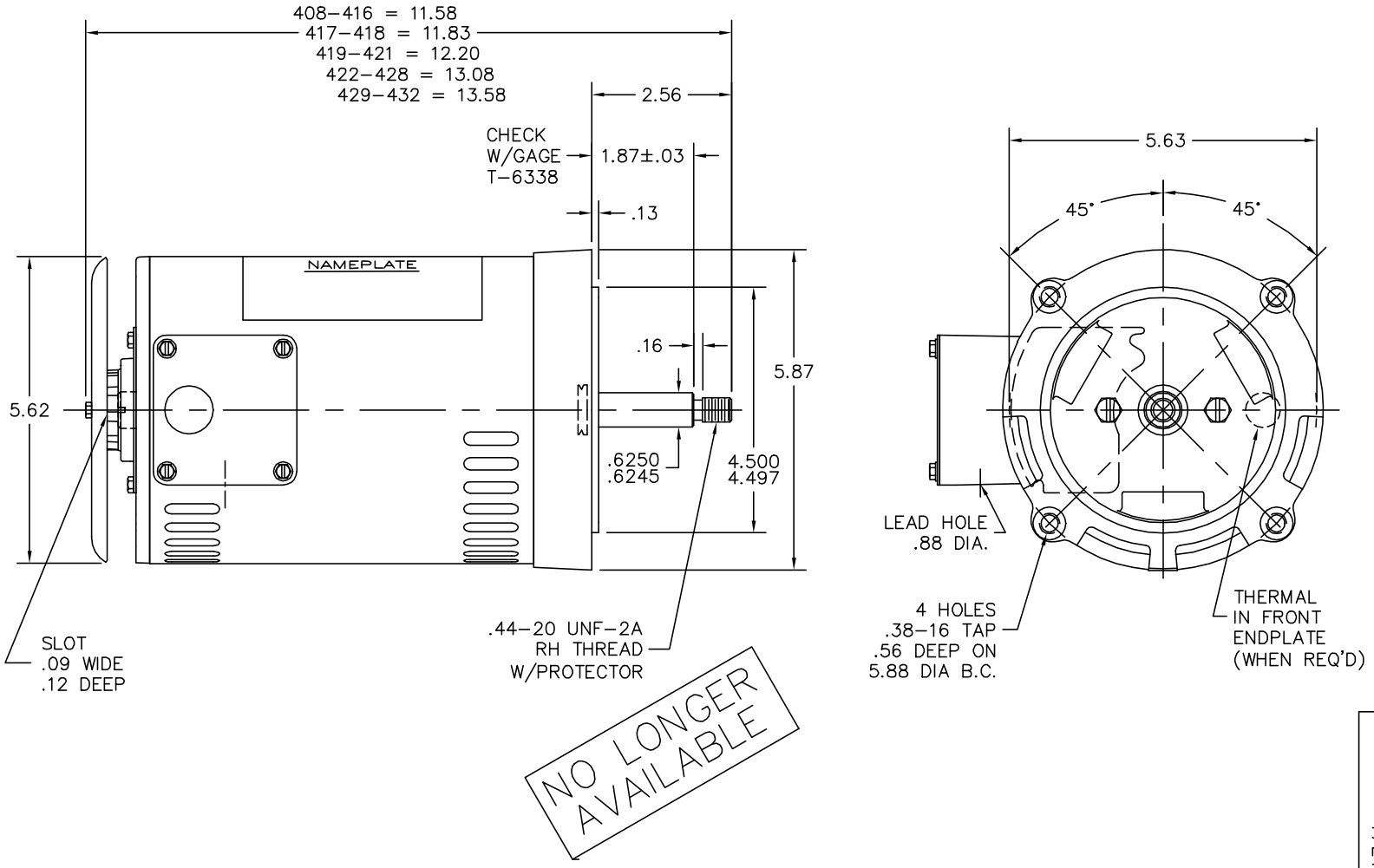
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=12.3 PU=8.18 LR=9.8 LRA=23.4



11/20/2026 ACPERF, record # 36368

17LYE847



CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION.

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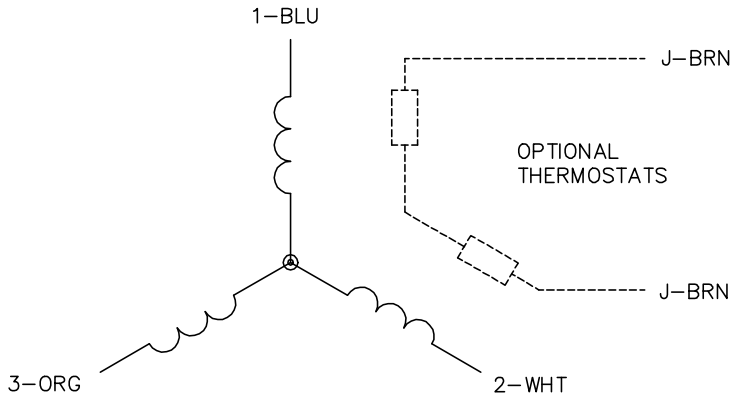
VERT 17M NEMA 56J OPEN W/ DRIP COVER, INT FAN, & KOBX

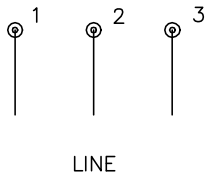
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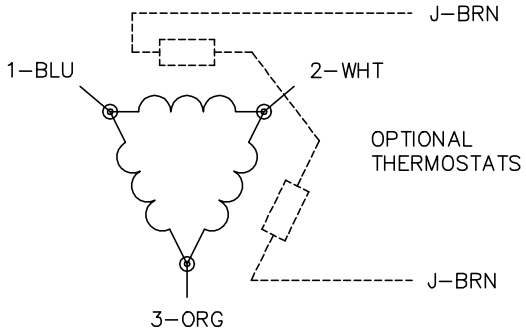
CD0006

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

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BALDOR - RELIANCE®

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

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