ABB BALDOR RELIANCE

Customer information packet

17E179W055

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

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Specifications

Enclosure	ODP
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
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
	CE
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	1.700 A @ 230.0 V
	3.400 A @ 208.0 V
Design Code	B
Drip Cover	Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	77.0 %
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	1.7 a
Insulation Class	B

Part Detail

Revision	P
Type	AC
Mech. spec.	17E179
Base	
Status	NLA/A
Elec. spec.	17WGW055
Layout	17LYE179
Eff. date	12-17-2014
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	01-01-0001

Inverter Code	Not Inverter
KVA Code	L
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Terminal Panel Or Lead Hole
Motor Lead Quantity/Wire Size	9 @ 18 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	71
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 EXEMPT
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

Nameplate

NP1203A									
CAT.NO.						**ENCL**	OPEN		
SPEC.	17E179W055					**FRAME**	56J		
HP	1								
VOLTS	208-230/460								
AMPS	3.4/1.7								
RPM	1725								
HZ	60	**PH**	3	**CL**	B				
SER.F.	1.15	**DES**	B	**CODE**	L				
FL EFF	77	**PF**	71						
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 # 4876
Typical performance - not guaranteed values

Winding: 17WGW055-R001	**Type:** 1724M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1	**Full Load Torque**	3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			3.4/1.7	**Breakdown Torque**	11.4 LB-FT
R.P.M.			1725	**Pull-up Torque**	7.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	8.7 LB-FT
NEMA Design Code	B	**KVA Code**	L	**Starting Current**	11.6 A
Service Factor (S.F.)			1.15	**No-load Current**	1.2 A
NEMA Nom. Eff.	77	**Power Factor**	71	**Line-line Res. @ 25ºC**	17.9 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	66°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Locked-rotor Power Factor	73
				Rotor inertia	0.0569 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	49	61	71	78	82	75
Efficiency	55.7	69.8	75	77.1	77.2	76.4	77.2
Speed	1781	1766	1749	1729	1708	1685	1716
Line amperes	1.3	1.3	1.5	1.7	1.9	2.2	1.8

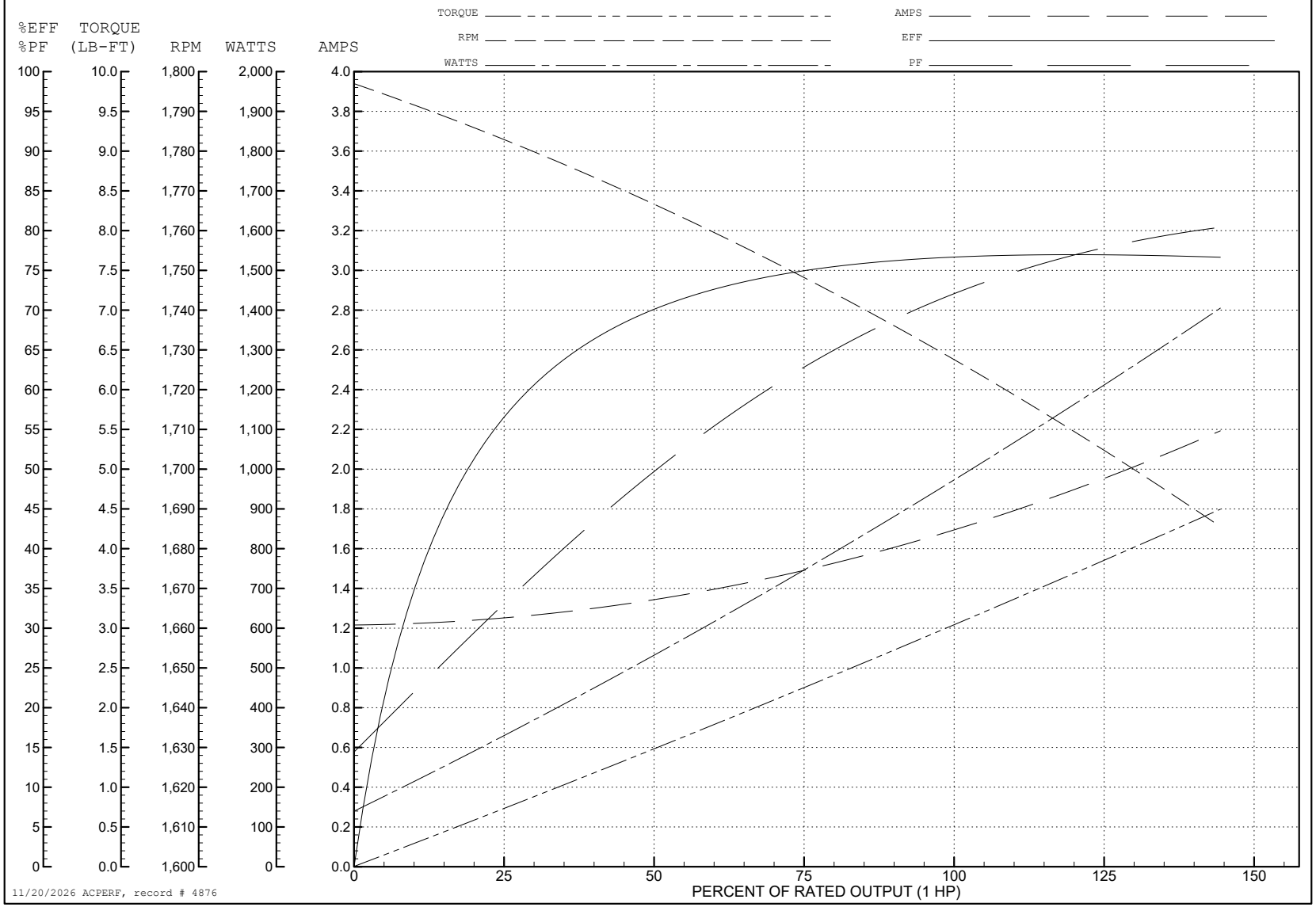
ABB Motors and Mechanical Inc.

WINDING # 17WGW055

1 HP 3 PH 60 HZ 1725 RPM 460 V 1724M

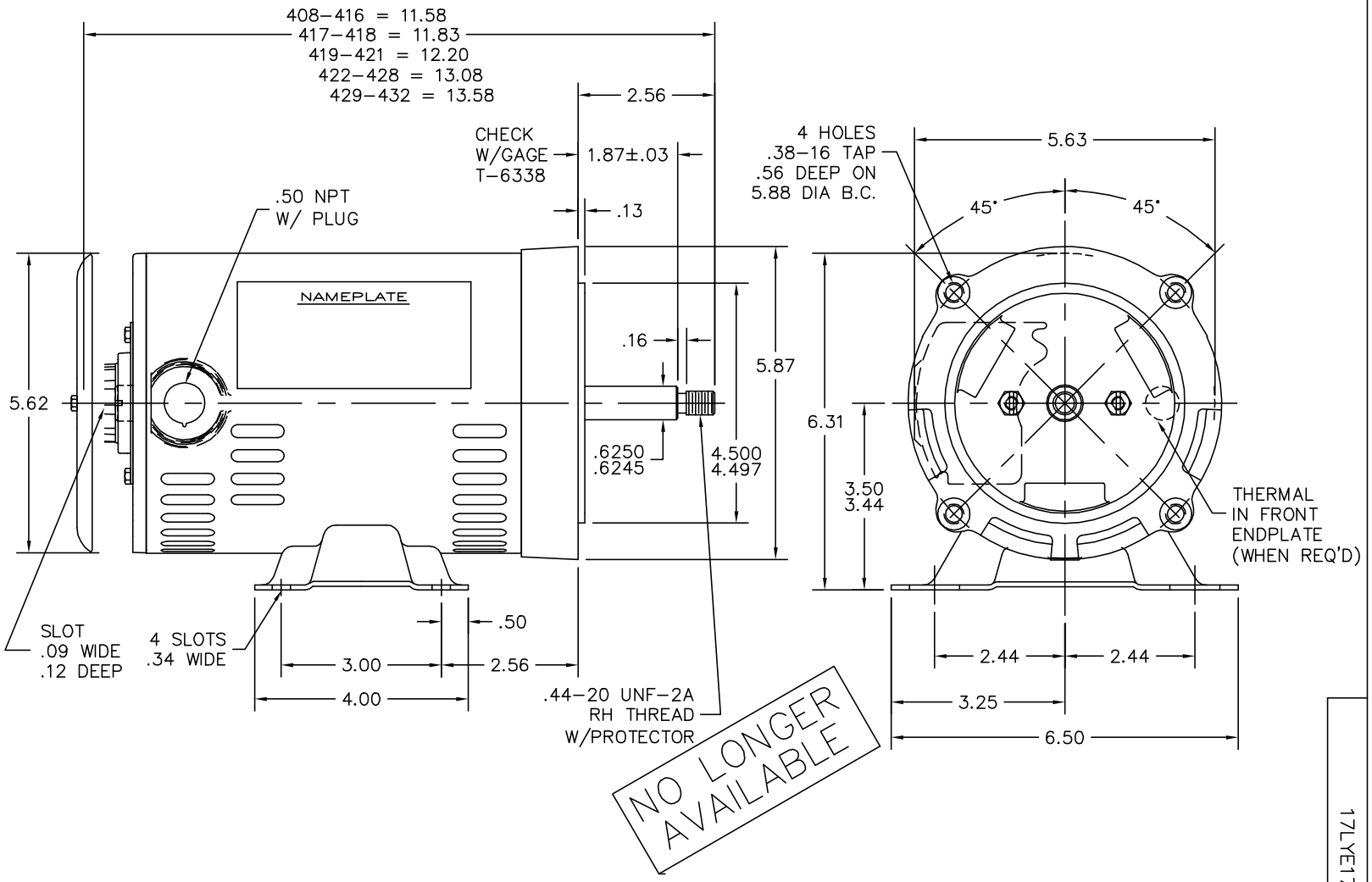
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=11.4 PU=7.4 LR=8.7 LRA=11.6



11/20/2026 ACPERF, record # 4876

17LYE179



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

REV. DESC: NLA		
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MTL: –		

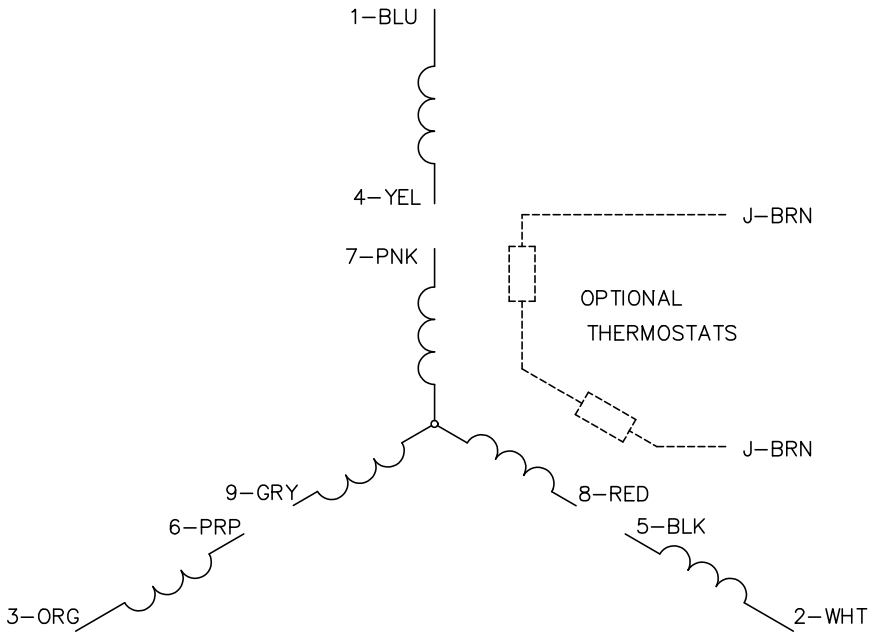
BALDOR

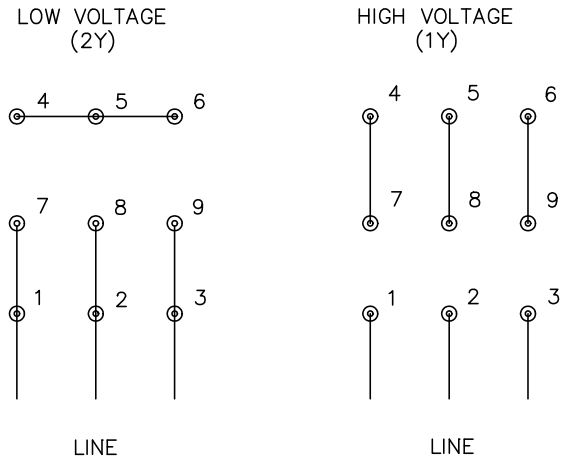
HORZ 17M NEMA 56J OPEN W/DRIP COVER & FINNED ER

SH 1 of 1

17LYE179

CD0005





NOTES:

1. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
2. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
3. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY BE A MULTIPLE OF THOSE SHOWN ABOVE.
4. LEAD COLORS ARE OPTIONAL. LEADS MUST ALWAYS BE NUMBERED AS SHOWN.

CD0005

REV. DESC: REVISE TO SHOW OPTIONAL COLORS			BALDOR ELECTRIC Co.
REV. LTR: E	BY: JLP	REVISED: 01/19/99 10:15	TDR: 0171435
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		MTL: –	3PH, DV, 9 LEADS