ABB BALDOR RELIANCE

Customer information packet

EHM4104T

30HP, 1770RPM, 3PH, 60HZ, 286T, 1060M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	286T
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	UR
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	76.000 A @ 230.0 V
	78.000 A @ 208.0 V
	38.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	Y
Type	AC
Mech. spec.	10H756
Base	
Status	PRD/A
Elec. spec.	10WGY648
Layout	10LYH756
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	04
Leads	9#10
Proprietary	False
Created date	12-12-2011

Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1060M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	27.76 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.875 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	NONE (OLD)
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP2138L												
CAT.NO.	EHM4104T		**P/N**				**ENCLOSURE**	TEFC				
SPEC.	10H756Y648G1	**CC**	010A	**FRAME**	286T	**S/N**						
HP	30		**CLASS**	F	**HZ**	60						
RPM	1770		**PH**	3	**DES**	A						
VOLT	230/460				**KVA-CODE**	J	**ODE BRG**	6309	**DE BRG**	6311		
AMP	76/38											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	93.6	**PF**	79	**SER.F.**	1.15							
HTR-VOLTS		**HTR-AMPS**										

AC Induction Motor Performance Data
Record # 53027
Typical performance - not guaranteed values

Winding: 10WGY648-R002	**Type:** 1060M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			76/38	**Breakdown Torque**	314 LB-FT
R.P.M.			1770	**Pull-up Torque**	151 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	172 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	274 A
Service Factor (S.F.)			1.15	**No-load Current**	19.3 A
NEMA Nom. Eff.	93.6	**Power Factor**	79	**Line-line Res. @ 25ºC**	0.182 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	55°C
S.F. Amps				**Temp. Rise @ S.F. Load**	66°C
				Locked-rotor Power Factor	32
				Rotor inertia	4.77 LB-FT2

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	38	60	70	79	81	82	80
Efficiency	90	93.4	94.2	94.3	93.8	93.2	94
Speed	1795	1789	1783	1777	1771	1763	1773
Line amperes	21	25.5	32.1	37.6	46.3	54.8	42.8

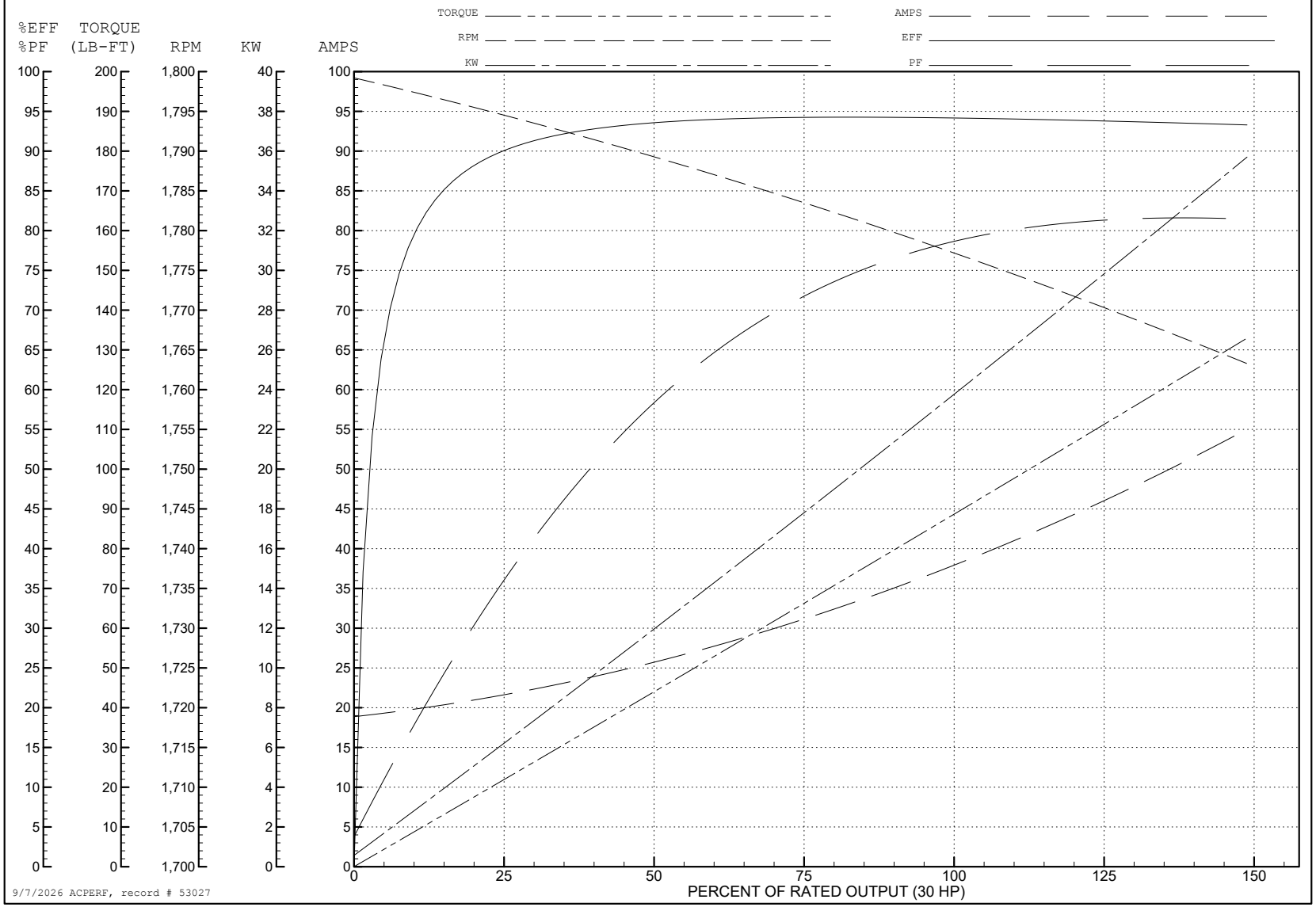
ABB Motors and Mechanical Inc.

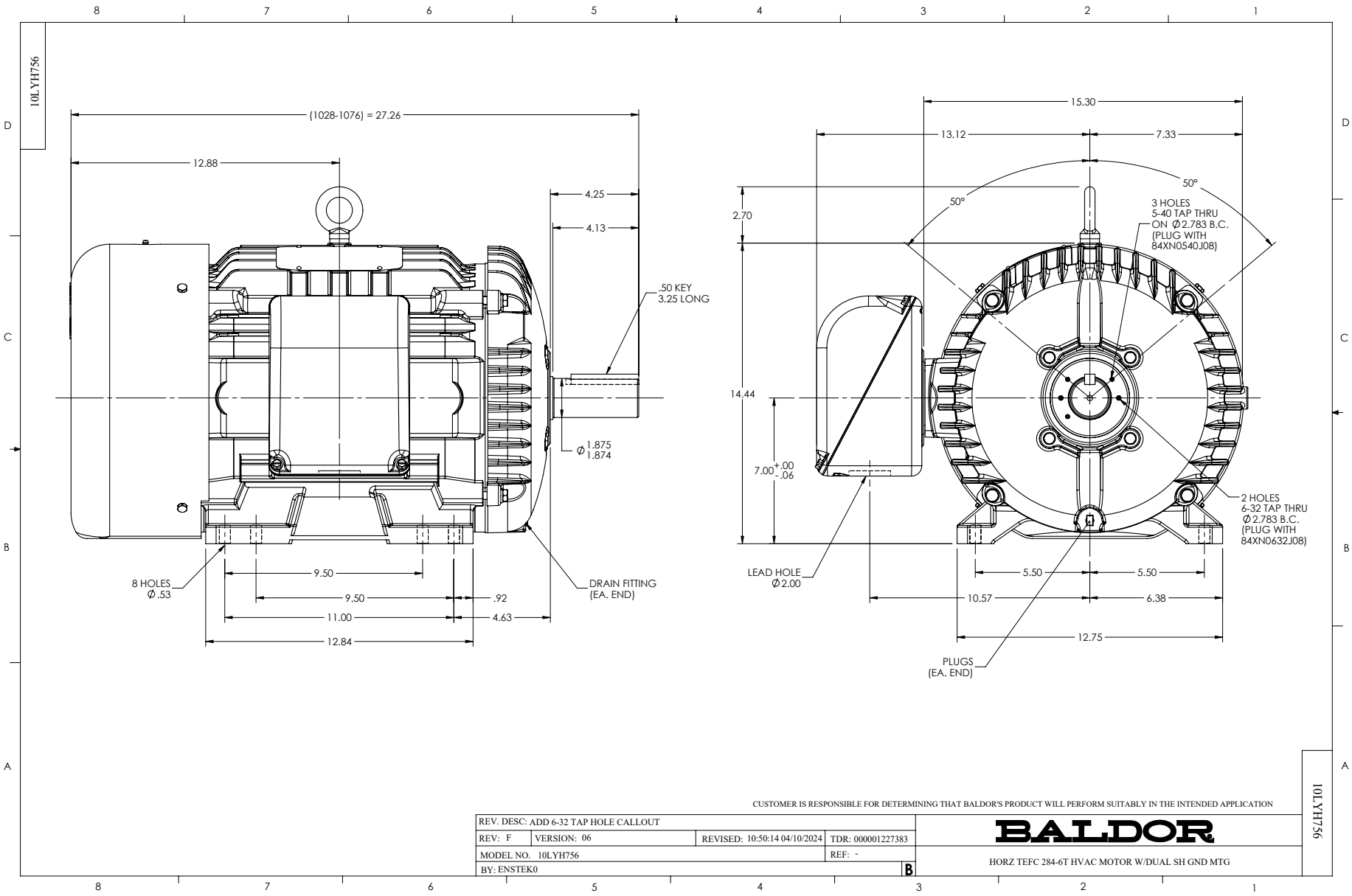
WINDING # 10WGY648

30 HP 3 PH 60 HZ 1770 RPM 460 V 1060M

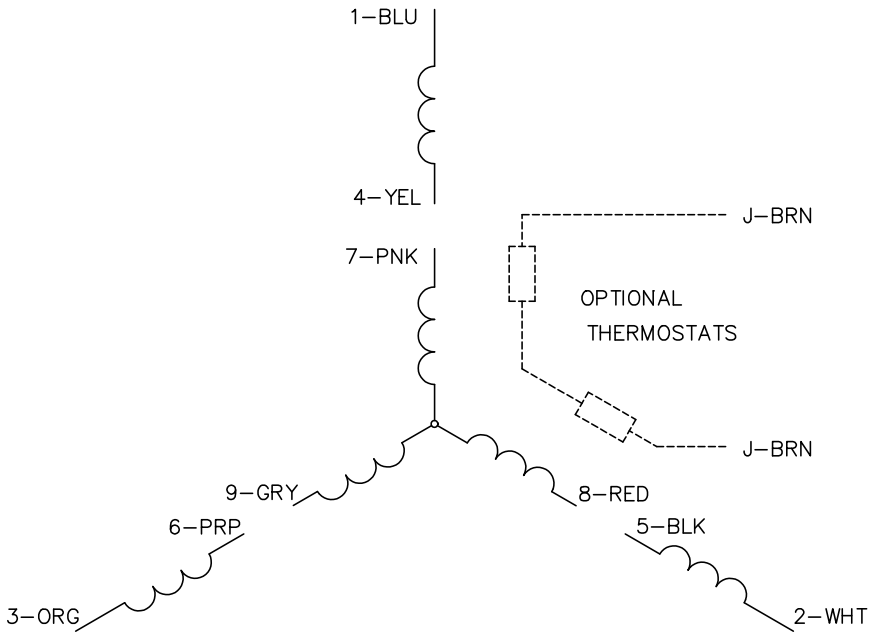
Typical performance - not guaranteed values.

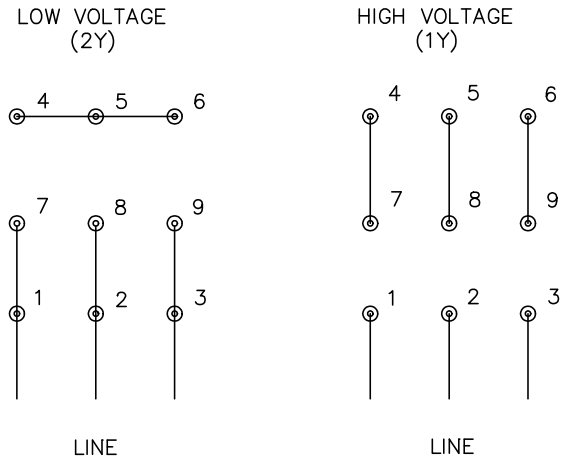
TORQUES(LB-FT): PO=314 PU=151 LR=172 LRA=274




10LYH756
(1028-1076) = 27.26
12.88
4.25
4.13
.50 KEY
3.25 LONG
Ø 1.875
1.874
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.63
12.84
DRAIN FITTING
(EA. END)
15.30
13.12
7.33
50°
50°
2.70
3 HOLES
5-40 TAP THRU
ON Ø 2.783 B.C.
(PLUG WITH
84XN0540J08)
14.44
7.00 +.00 -.06
2 HOLES
6-32 TAP THRU
Ø 2.783 B.C.
(PLUG WITH
84XN0632J08)
LEAD HOLE
Ø 2.00
5.50
5.50
10.57
6.38
12.75
PLUGS
(EA. END)
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: F
VERSION: 06
REVISED: 10:50:14 04/10/2024
TDR: 000001227383
MODEL NO. 10LYH756
REF: -
BY: ENSTEK0
B
BALDOR
HORZ TEFC 284-6T HVAC MOTOR W/DUAL SH GND MTG
10LYH756

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
CD0005		FILE: AAA00005140	MDL: –
		MTL: –	3PH, DV, 9 LEADS