ABB BALDOR RELIANCE

Customer information packet

EJMM4104T-G

56M 4P TEFC HOR 286JM SE
Class - None
Division - Not Applicable

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11/5/2026 9:18:09 AM

Specifications

Enclosure	TEFC
Frame	286JM
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	CSA EEV
	NEMA PREMIUM
	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	78.000 A @ 208.0 V
	76.000 A @ 230.0 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 Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	10H520
Base	
Status	PRD/A
Elec. spec.	10WGY538
Layout	10LYH520
Eff. date	06-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	04-02-2019

Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1056M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	28.64 IN
Power Factor	80
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP3443LUA											
CAT.NO.	EJMM4104T-G			**CUST. P/N**						**ENCL**	TEFC
SPEC.	10H520Y538G2	**CC**	010A	**FRAME**	286JM		**SER.NO.**				
HP	30		**CLASS**	H	**HZ**	60					
R.P.M.	1760		**PH.**	3	**DES.**	A					
VOLTS	230/460			**CODE**	J		**ODE BRG**	6309	**DE BRG**	6312	
AMPS	76/38										
RATING	40C AMB-CONT			**NEMA NOM. EFF.**	93.6			**GREASE**	POLYREX EM		
P.F.	80	**SER.F.**	1.15	**CT6-60H(10:1)VT3-60H(20:1**							
USABLE AT	50HZ 30HP 190/380V 88/44A			SF1.0							
VOLTS	**AMPS**		**MAX. SPACE HEATER TEMP.**								

AC Induction Motor Performance Data
Record # 28318
Typical performance - not guaranteed values

Winding: 10WGY538-R001	**Type:** 1056M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30	**Full Load Torque**	88.7 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			76/38	**Breakdown Torque**	330 LB-FT
R.P.M.			1760	**Pull-up Torque**	142 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	178 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	270 A
Service Factor (S.F.)			1.15	**No-load Current**	17.9 A
NEMA Nom. Eff.	93.6	**Power Factor**	80	**Line-line Res. @ 25ºC**	0.19377 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps				**Temp. Rise @ S.F. Load**	76°C
				Locked-rotor Power Factor	31
				Rotor inertia	4.47 lb-ft²

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	63	73	80	82	85	81
Efficiency	87.6	91.9	93.2	93.6	93.4	92.9	93.5
Speed	1792.2	1787.6	1782.4	1776.5	1770.3	1762.1	1773
Line amperes	19.8	24.3	30.7	37.6	45.6	55.2	42.4

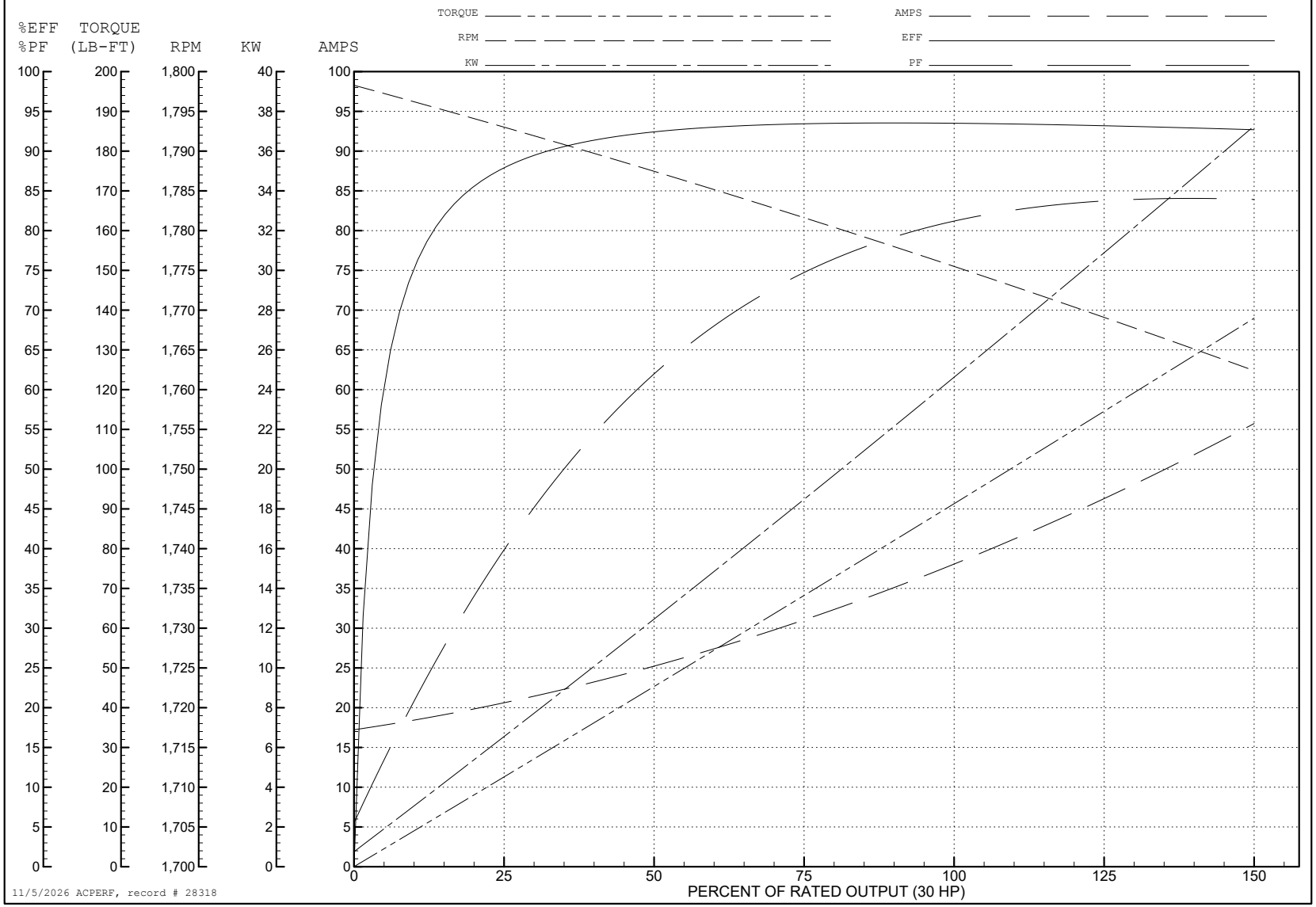
ABB Motors and Mechanical Inc.

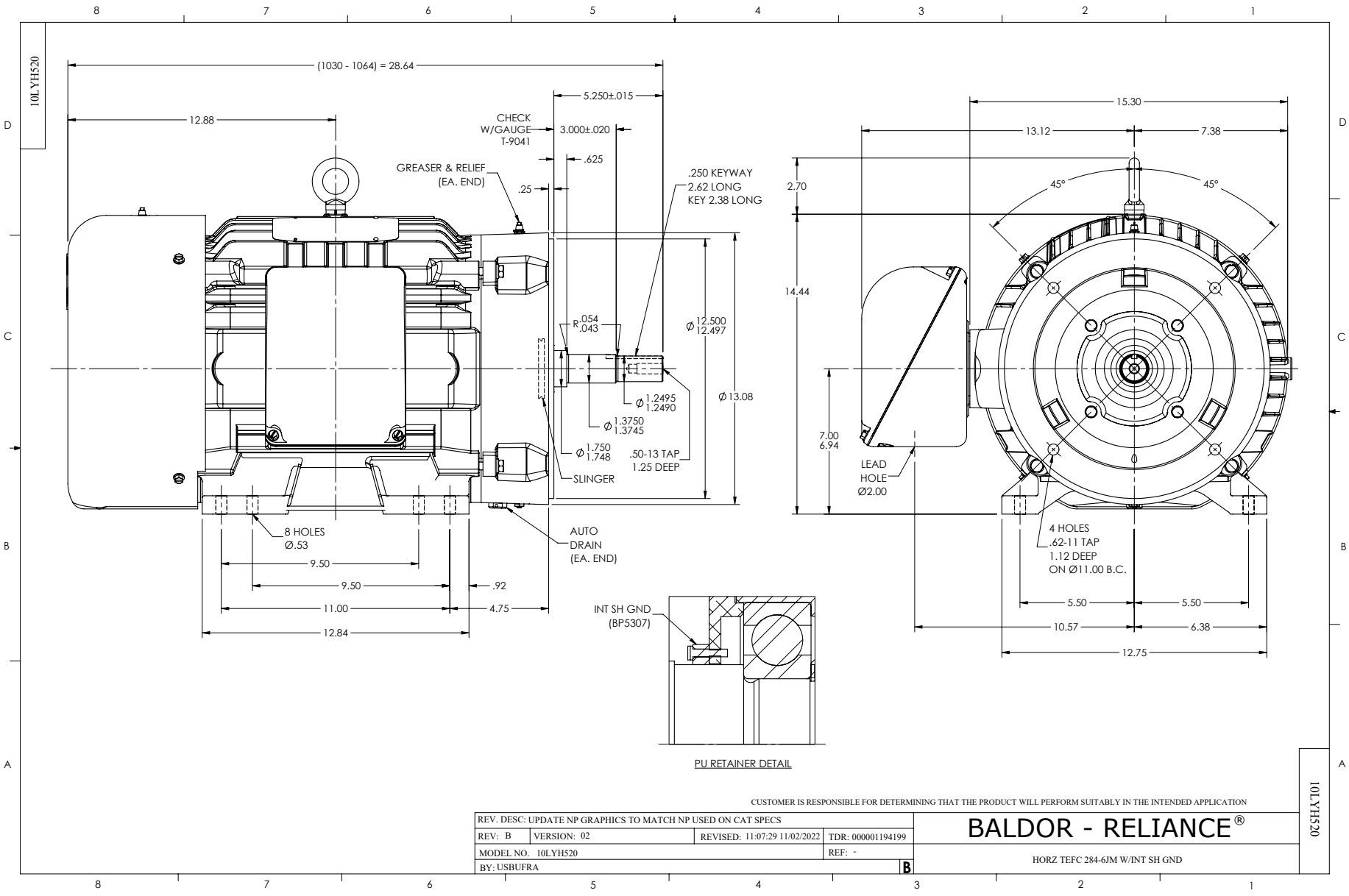
WINDING # 10WGY538

30 HP 3 PH 60 HZ 1760 RPM 460 V 1056M

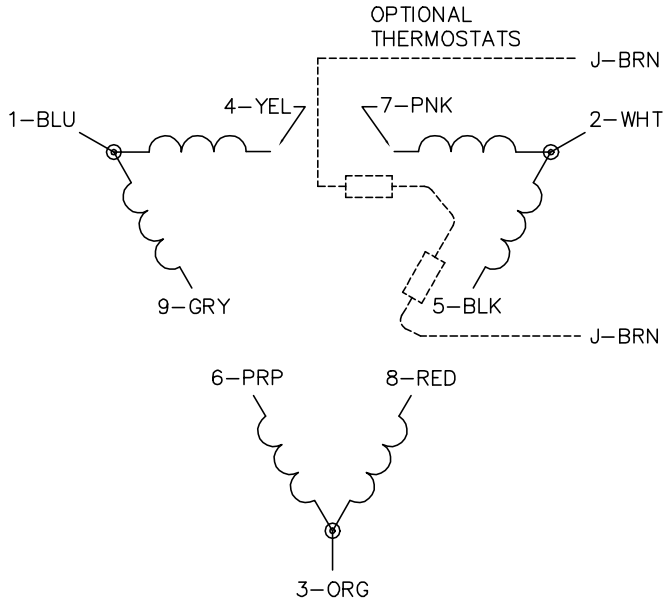
Typical performance - not guaranteed values.

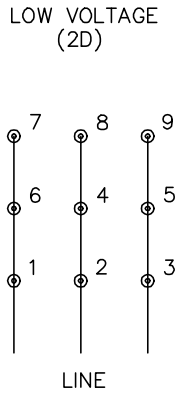
TORQUES(LB-FT): PO=330 PU=142 LR=178 LRA=270

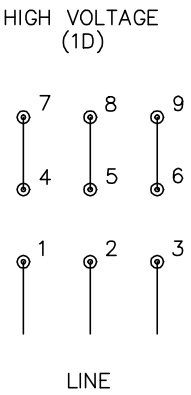



10LYH520
(1030 - 1064) = 28.64
12.88
5.250±.015
CHECK W/GAUGE T-9041
3.000±.020
.625
.25
GREASER & RELIEF (EA. END)
.250 KEYWAY 2.62 LONG KEY 2.38 LONG
R.054 .043
Ø 12.500 12.497
Ø 13.08
Ø 1.2495 1.2490
Ø 1.3750 1.3745
Ø 1.750 1.748
.50-13 TAP 1.25 DEEP
SLINGER
8 HOLES Ø.53
AUTO DRAIN (EA. END)
9.50
9.50
.92
11.00
4.75
12.84
15.30
13.12
7.38
45°
45°
2.70
14.44
7.00 6.94
LEAD HOLE Ø2.00
4 HOLES .62-11 TAP 1.12 DEEP ON Ø11.00 B.C.
5.50
5.50
10.57
6.38
12.75
INT SH GND (BP5307)
PU RETAINER DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE NP GRAPHICS TO MATCH NP USED ON CAT SPECS
REV: B
VERSION: 02
REVISED: 11:07:29 11/02/2022
TDR: 000001194199
MODEL NO. 10LYH520
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ TEFC 284-6JM W/INT SH GND
10LYH520

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, DV, 9 LEADS, DELTA CONNECTION

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