ABB BALDOR RELIANCE

Customer information packet

ECTM4104T

30 AIR OVERHP, 1760RPM, 3PH, 60HZ, 286T, 1056
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEAO
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	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	UR
	CSA
	CSA EEV
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
	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
Heater Indicator	No Heater

Part Detail

Revision	T
Type	AC
Mech. spec.	10K189
Base	
Status	PRD/A
Elec. spec.	10WGY538
Layout	10LYK189
Eff. date	06-05-2026
CD Diagram	CD0180
Poles	04
Leads	9#8
Proprietary	False
Created date	08-17-2015

High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	J
Lifting Lugs	Vertical Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
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	25.63 IN
Power Factor	80
Product Family	Super-E Chemical Processing
Pulley End Bearing Type	Sealed Bearing
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1760 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

NP2178								
CAT.NO.	ECTM4104T							
SPEC.	10K189Y538G1							
HP	30 AIR OVER							
VOLTS	230/460							
AMP	76/38							
RPM	1760							
FRAME	286T	**HZ**	60		**PH**	3		
SER.F.	1.15	**CODE**	J	**DES**	A	**CL**	F	
NEMA-NOM-EFF	93.6	**PF**	80					
RATING	40C AMB-CONT							
CC								
DE	6311	**ODE**	6309					
ENCL	TEAO	**SN**						
	1900 FPM @ 360CFM							

AC Induction Motor Performance Data
Record # 35485
Typical performance - not guaranteed values

Winding: 10WGY538-R005	**Type:** 1056M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30 AIR OVER	**Full Load Torque**	88.7 LB-FT
Volts			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	92.3	93.5	93.7	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

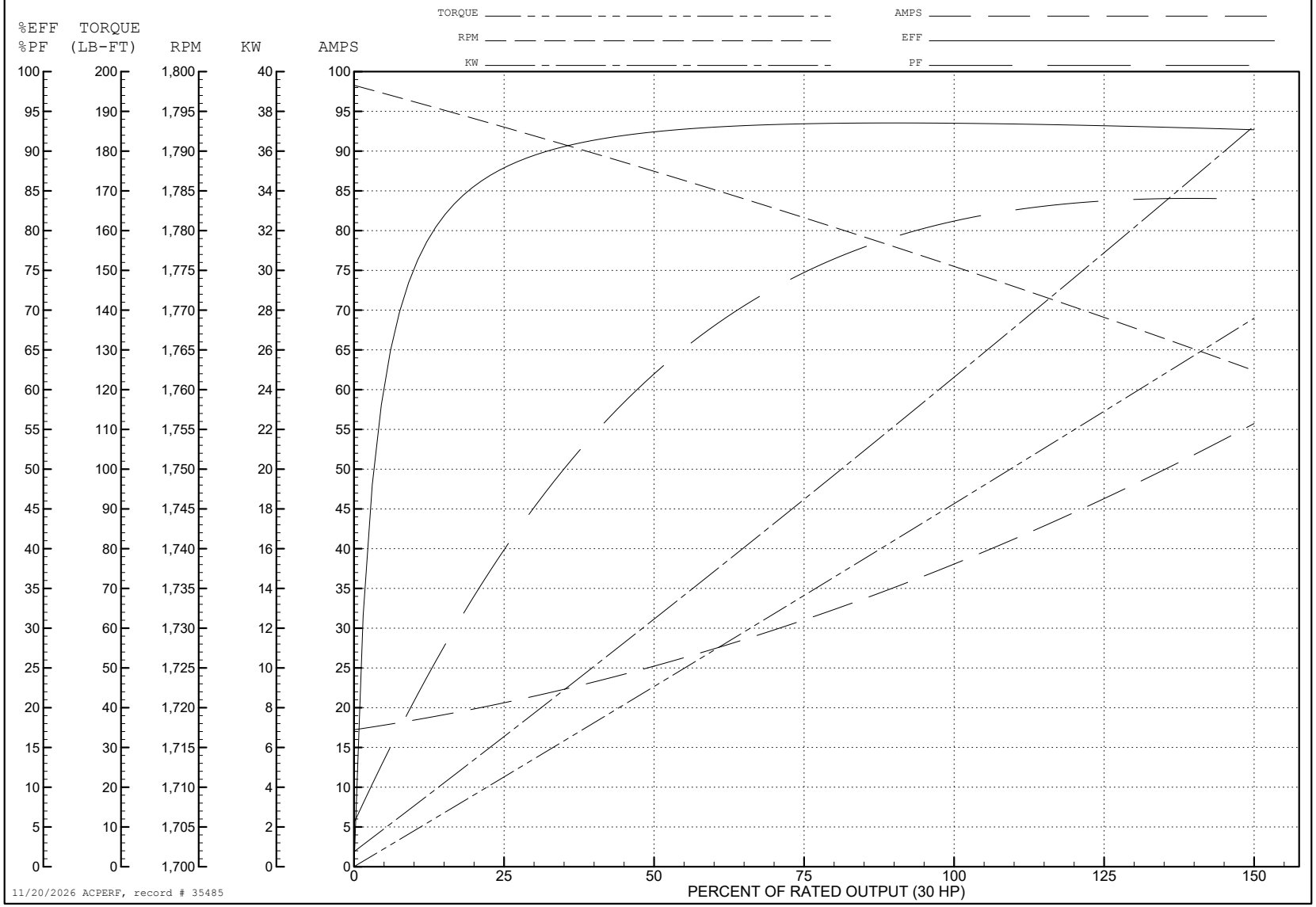
ABB Motors and Mechanical Inc.

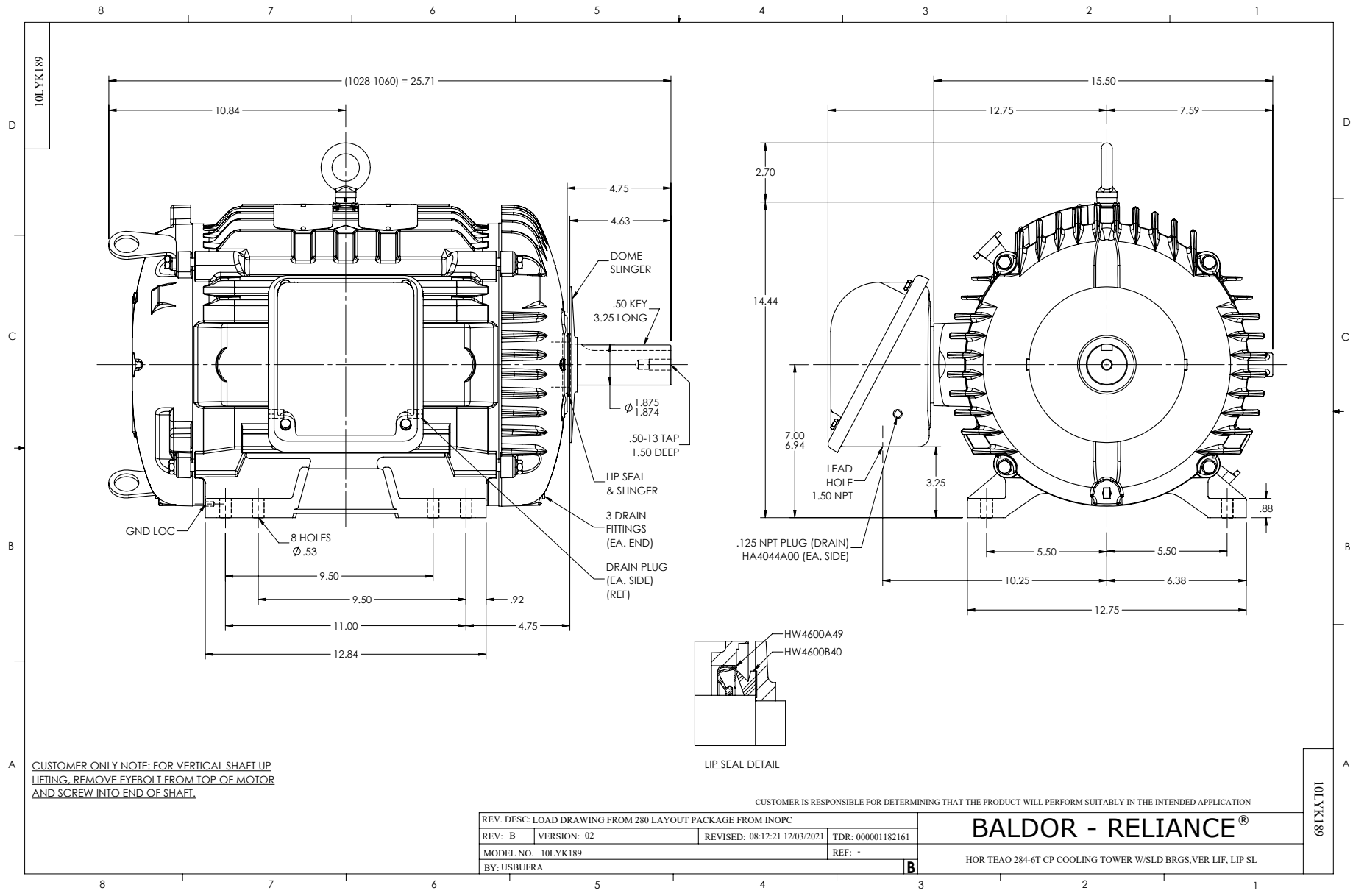
WINDING # 10WGY538

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

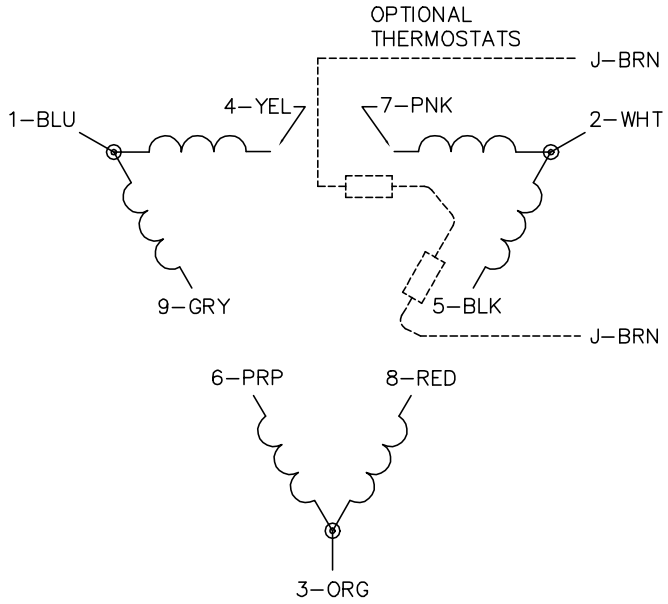
Typical performance - not guaranteed values.

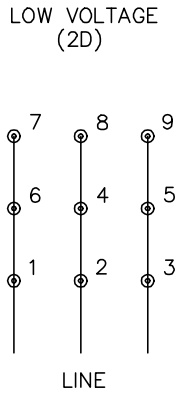
TORQUES(LB-FT): PO=330 PU=142 LR=178 LRA=270

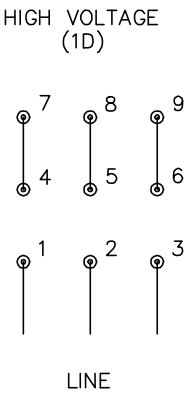



10LYK189
(1028-1060) = 25.71
10.84
4.75
4.63
DOME SLINGER
.50 KEY
3.25 LONG
Ø 1.875
1.874
.50-13 TAP
1.50 DEEP
LIP SEAL
& SLINGER
3 DRAIN
FITTINGS
(EA. END)
DRAIN PLUG
(EA. SIDE)
(REF)
GND LOC
8 HOLES
Ø.53
9.50
9.50
.92
11.00
4.75
12.84
15.50
12.75
7.59
2.70
14.44
7.00
6.94
LEAD
HOLE
1.50 NPT
3.25
.88
.125 NPT PLUG (DRAIN)
HA4044A00 (EA. SIDE)
5.50
5.50
10.25
6.38
12.75
HW4600A49
HW4600B40
LIP SEAL DETAIL
CUSTOMER ONLY NOTE: FOR VERTICAL SHAFT UP LIFTING, REMOVE EYEBOLT FROM TOP OF MOTOR AND SCREW INTO END OF SHAFT.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING FROM 280 LAYOUT PACKAGE FROM INOPC
REV: B
VERSION: 02
REVISED: 08:12:21 12/03/2021
TDR: 000001182161
MODEL NO. 10LYK189
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HOR TEAO 284-6T CP COOLING TOWER W/SLD BRGS,VER LIF, LIP SL
10LYK189

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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