ABB BALDOR RELIANCE

Customer information packet

CTM4104T

30 AIR OVERHP, 1760RPM, 3PH, 60HZ, 286T, 0964
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	CSA
	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	77.400 A @ 208.0 V
	72.000 A @ 230.0 V
	36.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	92.4 %
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	R
Type	AC
Mech. spec.	09L879
Base	
Status	PRD/A
Elec. spec.	09WGY208
Layout	09LYL879
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#8
Proprietary	False
Created date	08-14-2015

High Voltage Full Load Amps	36.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
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	0964M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	25.78 IN
Power Factor	84
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	Standard
Pulley Shaft Indicator	Tapped & Key
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
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP1258									
CAT.NO.	CTM4104T								
SPEC.	09L879Y208H2								
HP	30 AIR OVER								
VOLTS	230/460								
AMP	72/36								
RPM	1760								
FRAME	286T	**HZ**	60		**PH**	3			
SER.F.	1.15	**CODE**	H	**DES**	B		**CL**	F	
NEMA-NOM-EFF	92.4	**PF**	84						
RATING	40C AMB-CONT								
CC									
DE	6311	**ODE**	6208						
ENCL	TEAO	**SN**							
	1800 FPM @ 250 CFM								

Accessories

Part number	Description	Multiplier
09-1310	C FACE KIT	A8

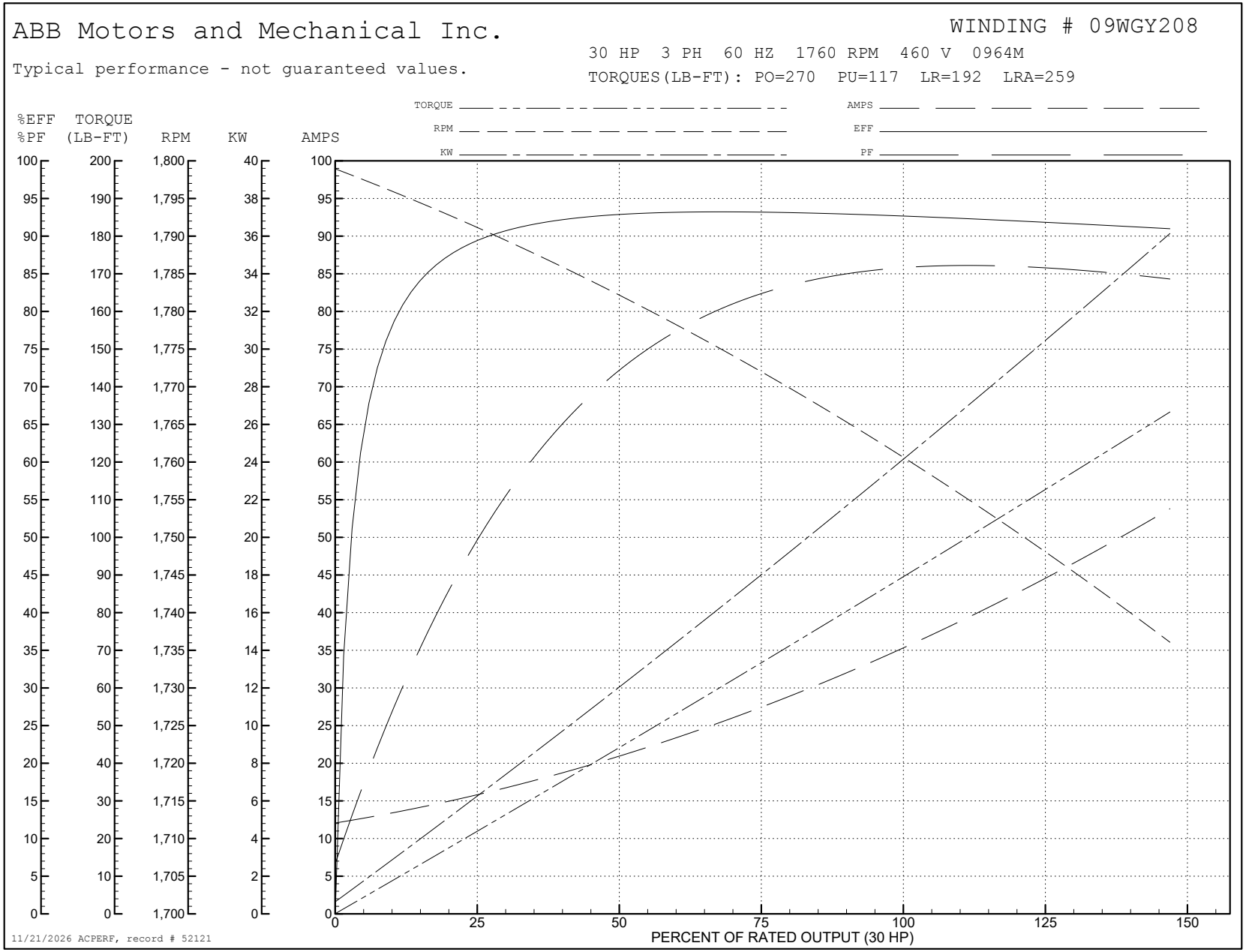
AC Induction Motor Performance Data
Record # 52121
Typical performance - not guaranteed values

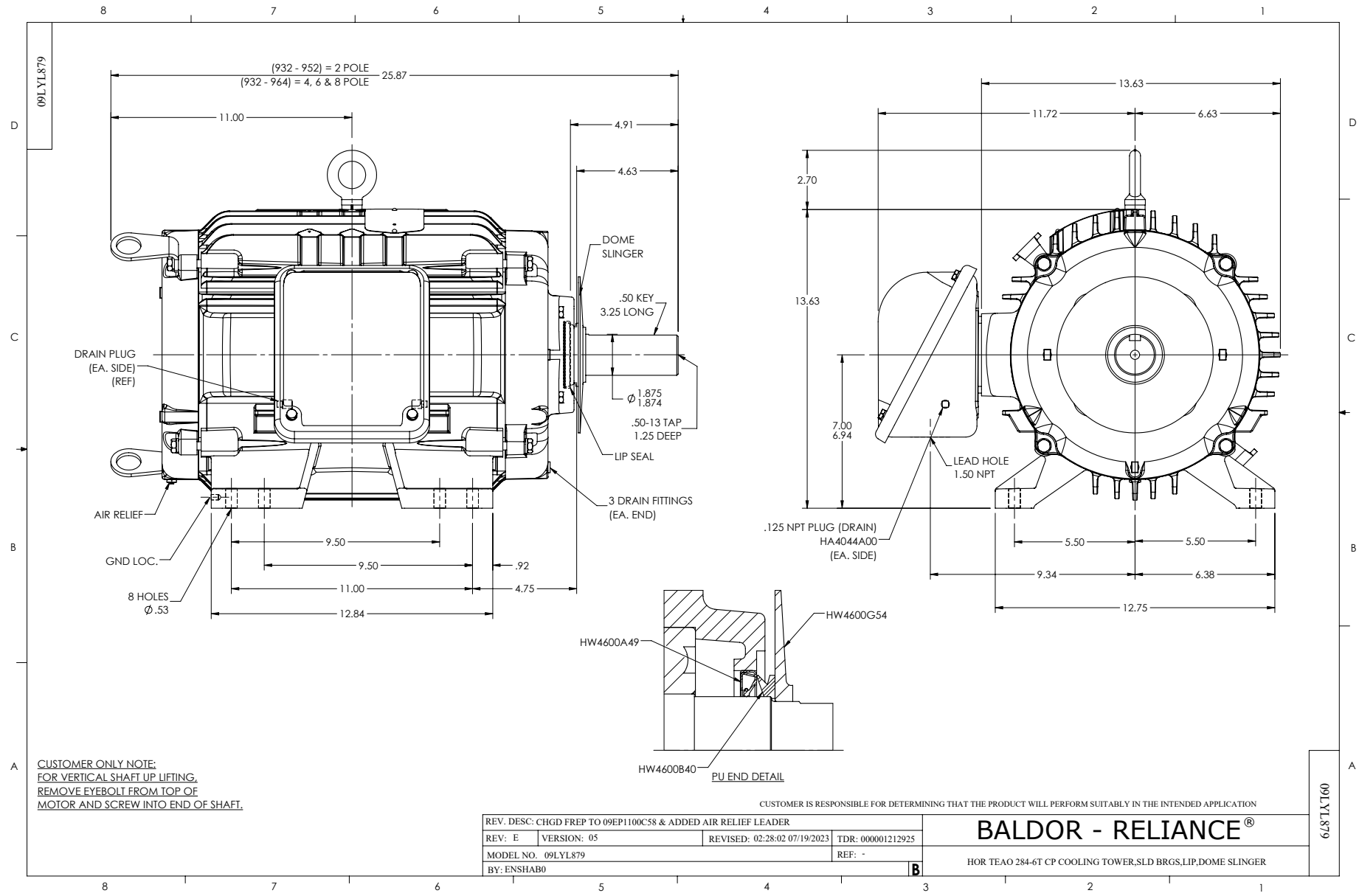
Winding: 09WGY208-R014	**Type:** 0964M	**Enclosure:** TEAO

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			30 AIR OVER	**Full Load Torque**	88.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			72/36	**Breakdown Torque**	270 LB-FT
R.P.M.			1760	**Pull-up Torque**	117 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	192 LB-FT
NEMA Design Code	B	**KVA Code**	H	**Starting Current**	259 A
Service Factor (S.F.)			1.15	**No-load Current**	12.7 A
NEMA Nom. Eff.	92.4	**Power Factor**	84	**Line-line Res. @ 25ºC**	0.257 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	68°C
S.F. Amps				**Temp. Rise @ S.F. Load**	84°C
				Locked-rotor Power Factor	30
				Rotor inertia	2.8 LB-FT2

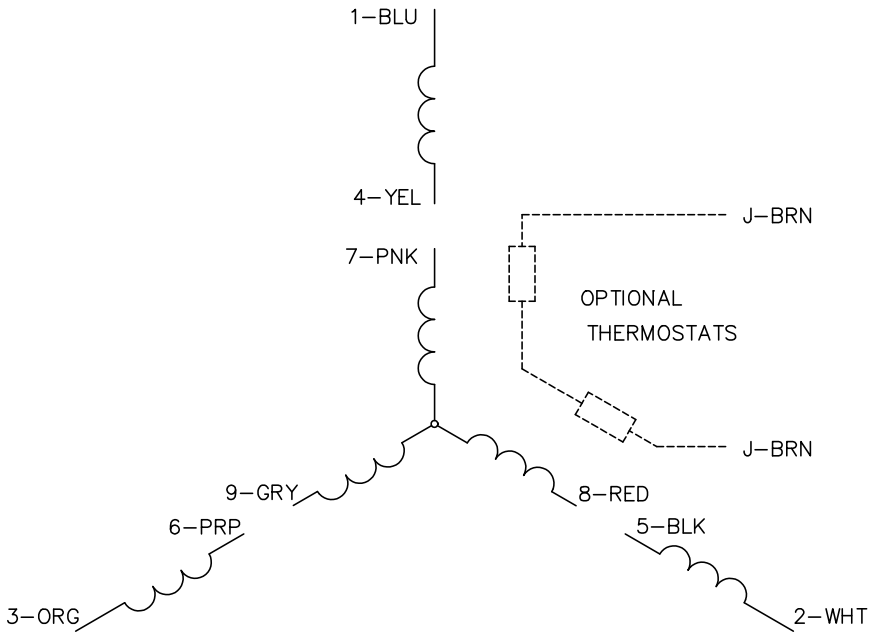
Load Characteristics 460 V, 60 Hz, 30 HP

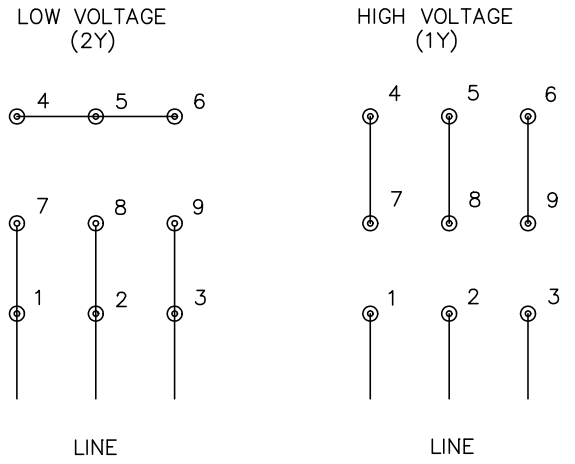
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	51	73	81	84	86	86	85
Efficiency	88.9	92.7	93.2	92.8	92	90.9	92.3
Speed	1791	1782	1772	1761	1749	1736	1754
Line amperes	15	20.7	27.5	35.8	44.1	53.4	40.78


ABB Motors and Mechanical Inc.
WINDING # 09WGY208
30 HP 3 PH 60 HZ 1760 RPM 460 V 0964M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=270 PU=117 LR=192 LRA=259
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (30 HP)
11/21/2026 ACPERF, record # 52121


09LYL879
(932 - 952) = 2 POLE
(932 - 964) = 4, 6 & 8 POLE
25.87
11.00
4.91
4.63
DOME SLINGER
.50 KEY
3.25 LONG
DRAIN PLUG
(EA. SIDE)
(REF)
Ø 1.875
1.874
.50-13 TAP
1.25 DEEP
LIP SEAL
3 DRAIN FITTINGS
(EA. END)
AIR RELIEF
GND LOC.
8 HOLES
Ø .53
9.50
9.50
.92
11.00
4.75
12.84
13.63
11.72
6.63
2.70
13.63
7.00
6.94
LEAD HOLE
1.50 NPT
.125 NPT PLUG (DRAIN)
HA4044A00
(EA. SIDE)
5.50
5.50
9.34
6.38
12.75
HW4600G54
HW4600A49
HW4600B40
PU END 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: CHGD FREP TO 09EP1100C58 & ADDED AIR RELIEF LEADER
REV: E
VERSION: 05
REVISED: 02:28:02 07/19/2023
TDR: 000001212925
MODEL NO. 09LYL879
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HOR TEAO 284-6T CP COOLING TOWER,SLD BRGS,LIP,DOME SLINGER
09LYL879

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