ABB BALDOR RELIANCE

Customer information packet

CEM2276T-G

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
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	7.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 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	22.000 A @ 230.0 V
	11.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Heater Indicator	No Heater
High Voltage Full Load Amps	11.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT118
Layout	09LYL284
Eff. date	03-19-2024
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	03-06-2020

Insulation Class	H
Inverter Code	Inverter Ready
IP Rating	NONE
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.78 IN
Power Factor	70
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 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

NP3441LUA									
CAT.NO.	CEM2276T-G								
SPEC	09-0000833								
HP	7.5								
VOLTS	230/460								
AMPS	22/11								
RPM	1180								
FRAME	254TC	**HZ**	60			**PH**	3		
SF	1.15	**CODE**	J	**DES**	A	**CLASS**	H		
NEMA NOM. EFF	91	**PF**	70						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6309	**ODE**	6208						
VPWM INVERTER READY									
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 7.5HP 190/380V 25/12.5								SF1.0

AC Induction Motor Performance Data
Record # 47558
Typical performance - not guaranteed values

Winding: 09WGT118-R002	**Type:** 0954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	33.2 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			22/11	**Breakdown Torque**	113 LB-FT
R.P.M.			1180	**Pull-up Torque**	41.3 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	57.4 LB-FT
NEMA Design Code	A	**KVA Code**	J	**Starting Current**	74.8 A
Service Factor (S.F.)			1.15	**No-load Current**	6.06 A
NEMA Nom. Eff.	91	**Power Factor**	70	**Line-line Res. @ 25ºC**	0.87037 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	36°C
S.F. Amps				**Temp. Rise @ S.F. Load**	42°C

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	32	52	63	70	74	75	72
Efficiency	83.2	89.4	90.9	91.1	90.7	89.9	90.9
Speed	1196.5	1192.4	1188.3	1183.7	1178.7	1173.2	1181
Line amperes	6.49	7.59	9.09	11	13.1	15.5	12.3

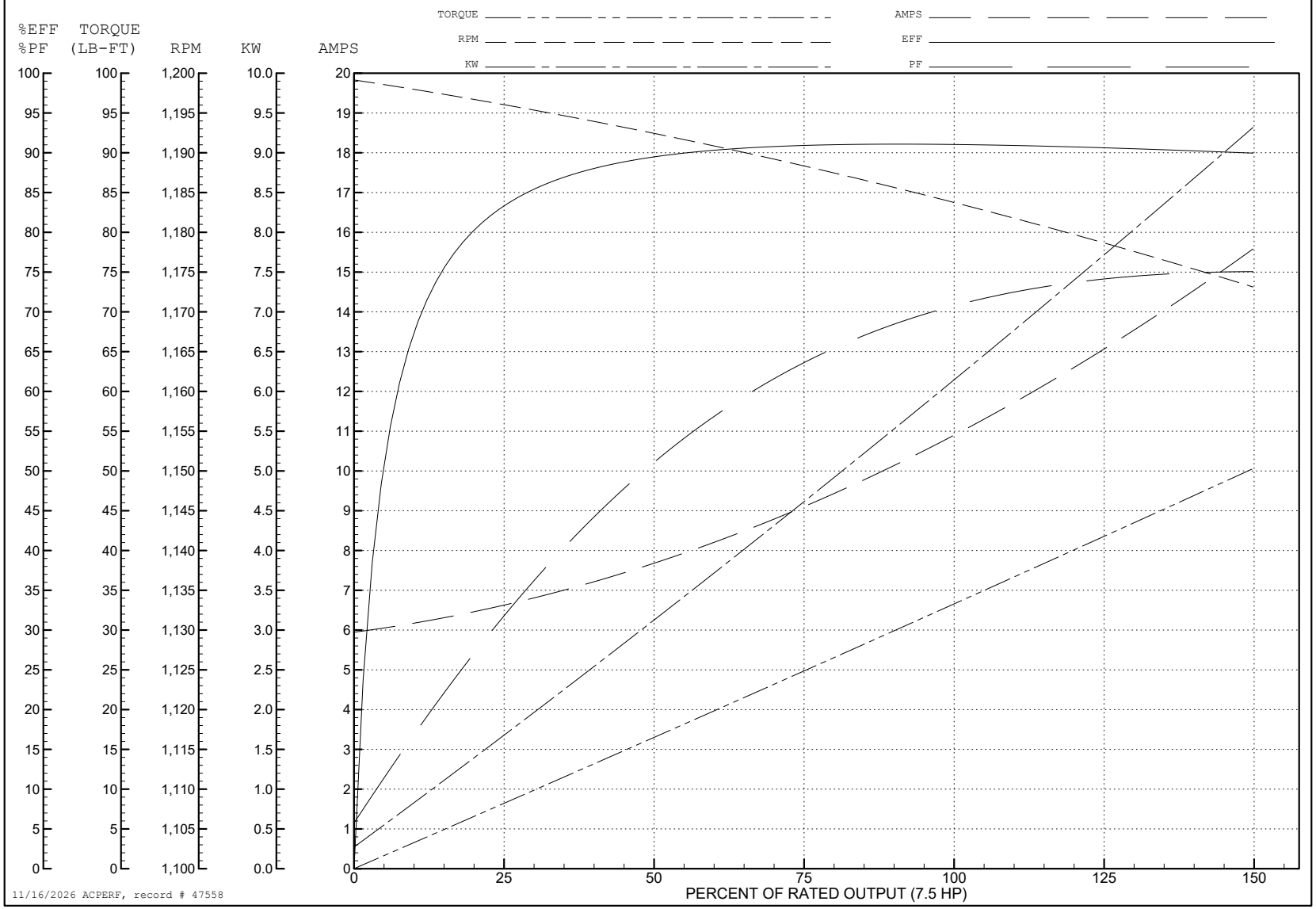
ABB Motors and Mechanical Inc.

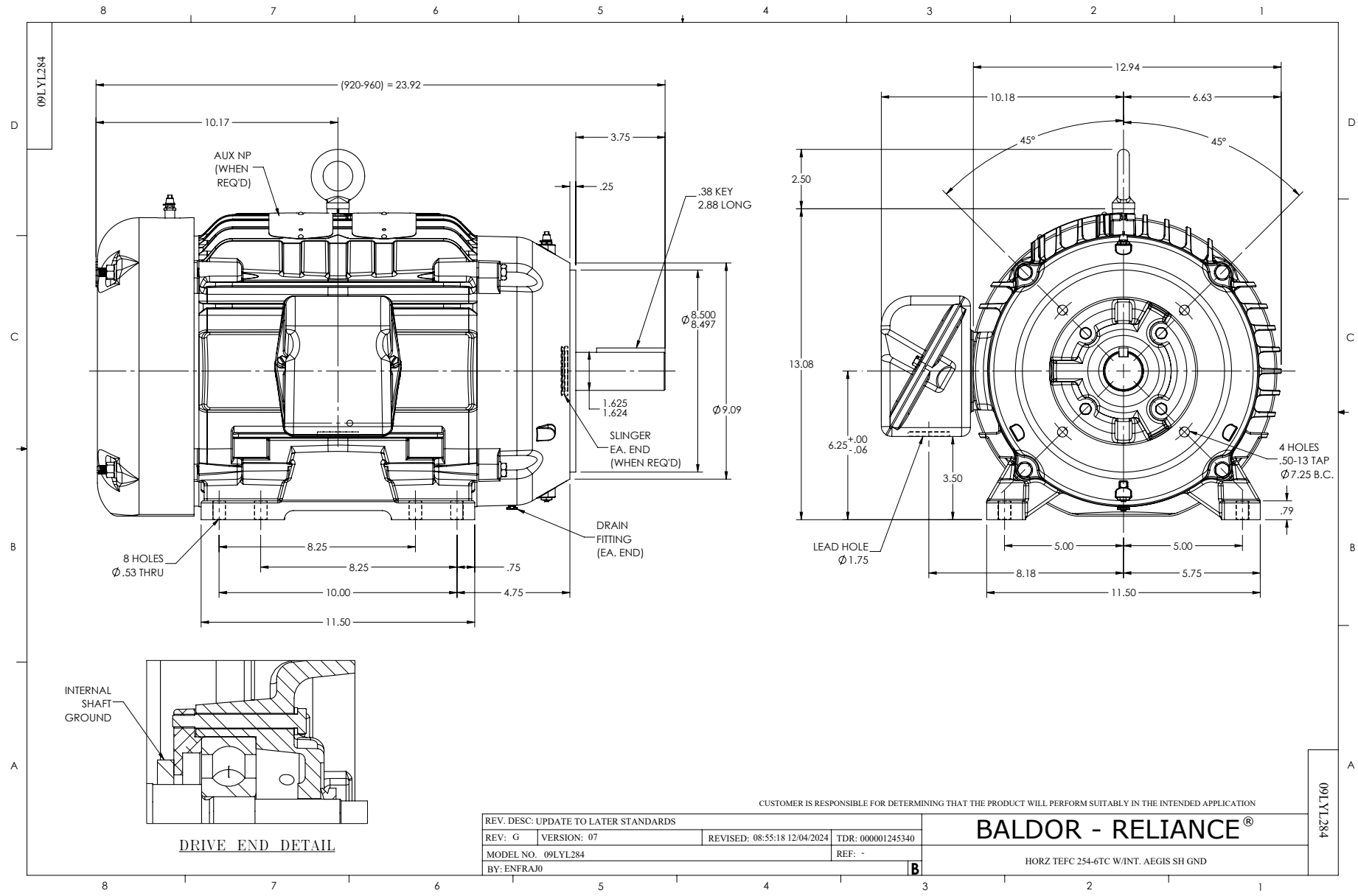
WINDING # 09WGT118

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 0954M

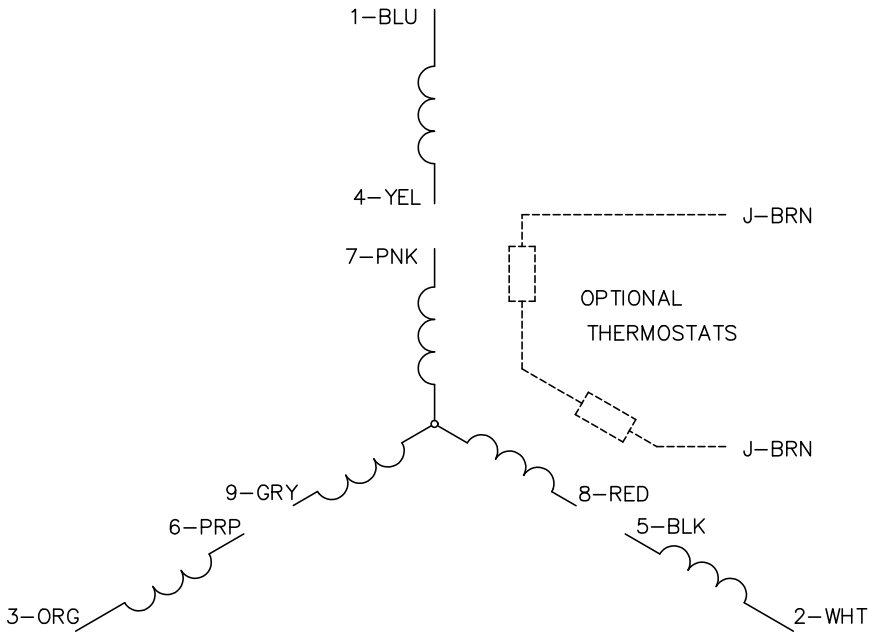
Typical performance - not guaranteed values.

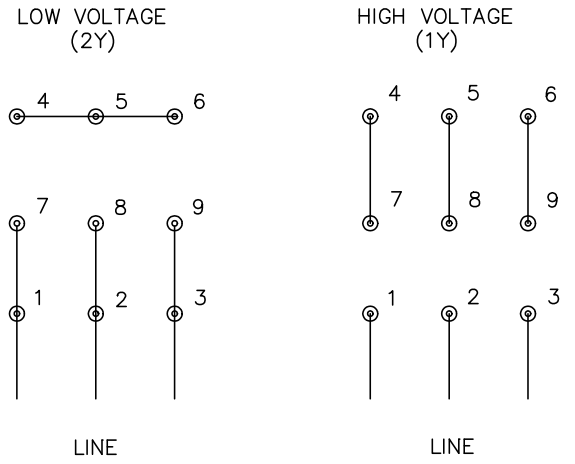
TORQUES(LB-FT): PO=113 PU=41.3 LR=57.4 LRA=74.8




09LYL284
(920-960) = 23.92
10.17
3.75
.25
AUX NP (WHEN REQ'D)
.38 KEY 2.88 LONG
Ø8.500 8.497
Ø9.09
1.625 1.624
SLINGER EA. END (WHEN REQ'D)
DRAIN FITTING (EA. END)
8 HOLES Ø.53 THRU
8.25
8.25
.75
10.00
4.75
11.50
12.94
10.18
6.63
45°
45°
2.50
13.08
6.25 +.00 -.06
3.50
4 HOLES .50-13 TAP Ø7.25 B.C.
.79
LEAD HOLE Ø1.75
5.00
5.00
8.18
5.75
11.50
INTERNAL SHAFT GROUND
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE TO LATER STANDARDS
REV: G
VERSION: 07
REVISED: 08:55:18 12/04/2024
TDR: 000001245340
MODEL NO. 09LYL284
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ TEFC 254-6TC W/INT. AEGIS SH GND
09LYL284

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