ABB BALDOR RELIANCE

Customer information packet

EM2237

7.5HP, 1775RPM, 3PH, 60HZ, 254U, 0936M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254U
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	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	20.000 A @ 208.0 V
	9.400 A @ 460.0 V
	18.800 A @ 230.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.7 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	T
Type	AC
Mech. spec.	09C111
Base	
Status	PRD/A
Elec. spec.	09WGT178
Layout	09LYC111
Eff. date	11-14-2023
CD Diagram	CD0005
Poles	04
Leads	9#12
Proprietary	False
Created date	02-23-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	9.4 a
Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 12 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0936M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	23.03 IN
Power Factor	78
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	1.375 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1775 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

NP1259L									
CAT.NO.	EM2237								
SPEC.	09C111T178G1								
HP	7.5								
VOLTS	230/460								
AMP	18.8/9.4								
RPM	1775								
FRAME	254U	**HZ**	60				**PH**	3	
SER.F.	1.15	**CODE**	K	**DES**	A	**CL**	F		
NEMA-NOM-EFF	91.7	**PF**	78						
RATING	40C AMB-CONT								
CC	010A								
DE	6309		**ODE**	6208					
ENCL	TEFC	**SN**							

AC Induction Motor Performance Data
Record # 49384
Typical performance - not guaranteed values

Winding: 09WGT178-R001	**Type:** 0936M	**Enclosure:** TEFC

Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		7.5	**Full Load Torque**	22.1 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		18.8/9.4	**Breakdown Torque**	96.4 LB-FT
R.P.M.		1775	**Pull-up Torque**	39.6 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	50 LB-FT
NEMA Design Code	A **KVA Code**	K	**Starting Current**	75.6 A
Service Factor (S.F.)		1.15	**No-load Current**	4.39 A
NEMA Nom. Eff.	91.7 **Power Factor**	78	**Line-line Res. @ 25ºC**	0.976 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	23°C
S.F. Amps			**Temp. Rise @ S.F. Load**	27°C
			Locked-rotor Power Factor	34.7
			Rotor inertia	1.57 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	42	65	76	81	84	85	83
Efficiency	83	89.5	91.7	91.9	91.5	91	91.7
Speed	1795	1789	1783	1776	1769	1762	1772
Line amperes	4.87	6	7.51	9.43	11.4	13.5	10.6

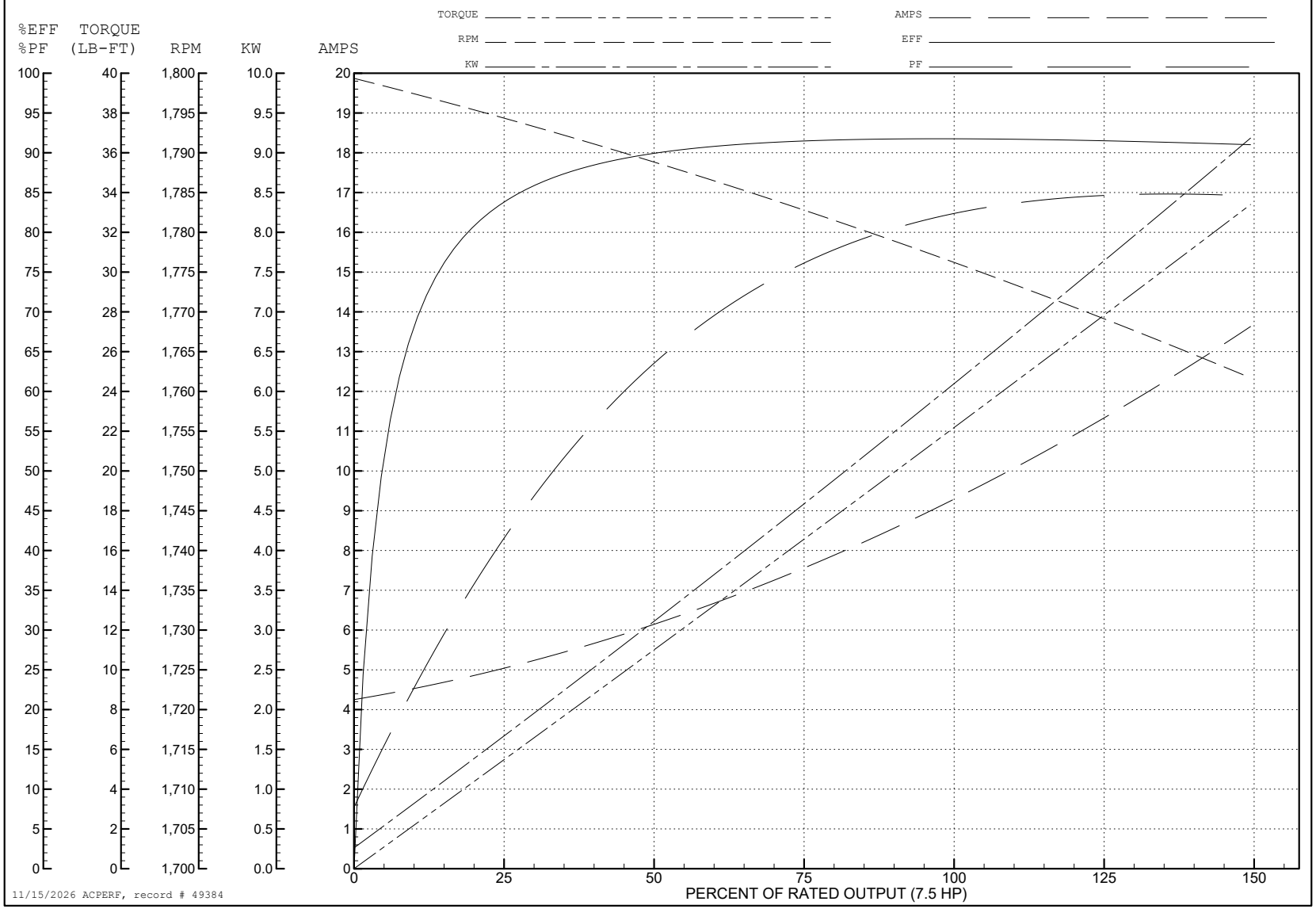
ABB Motors and Mechanical Inc.

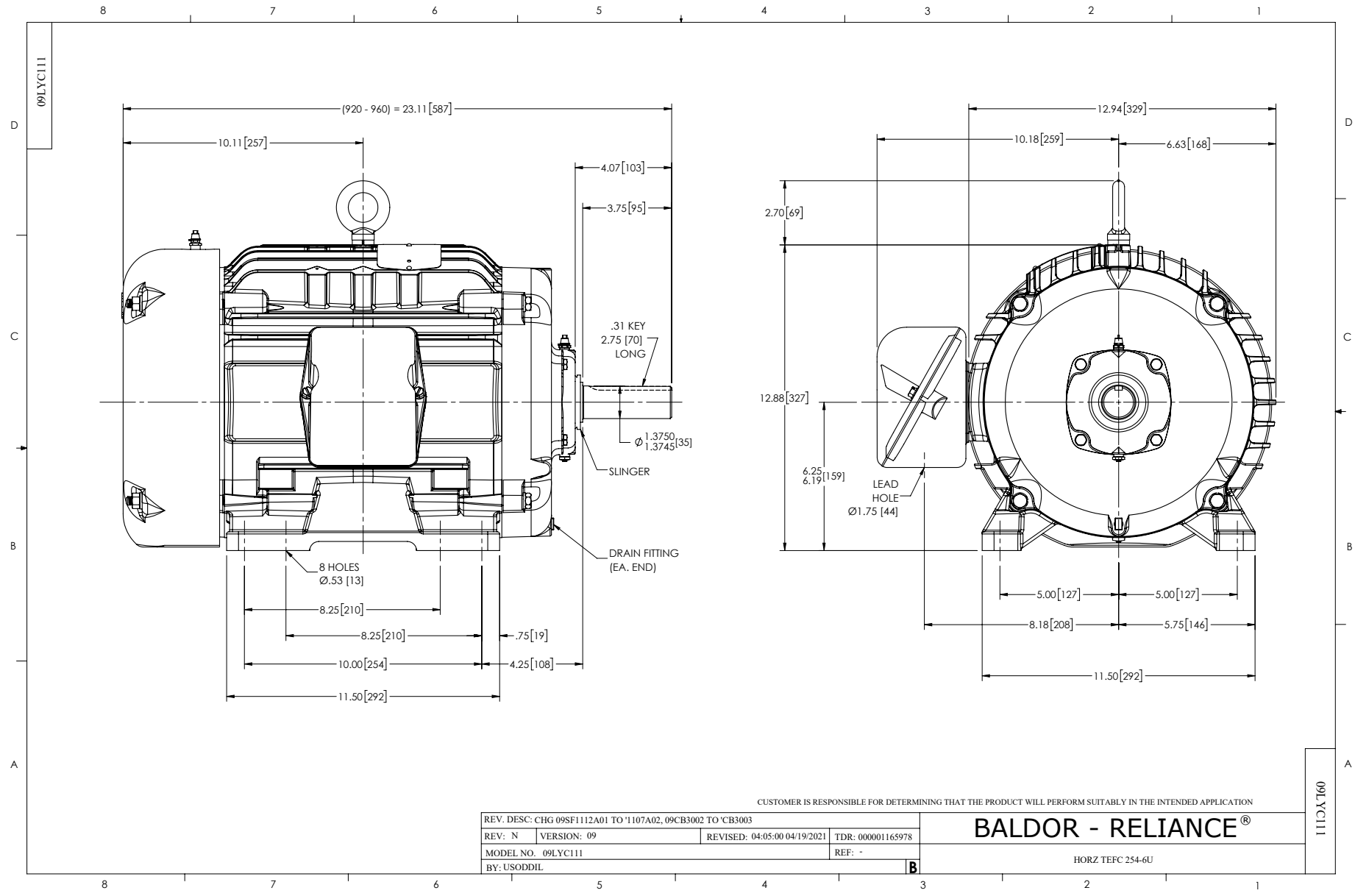
WINDING # 09WGT178

7.5 HP 3 PH 60 HZ 1775 RPM 460 V 0936M

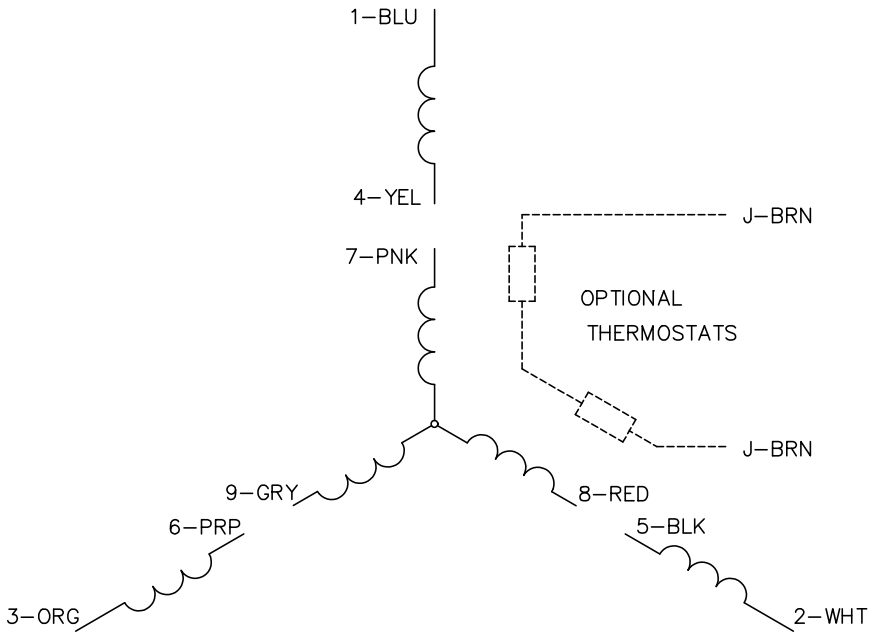
Typical performance - not guaranteed values.

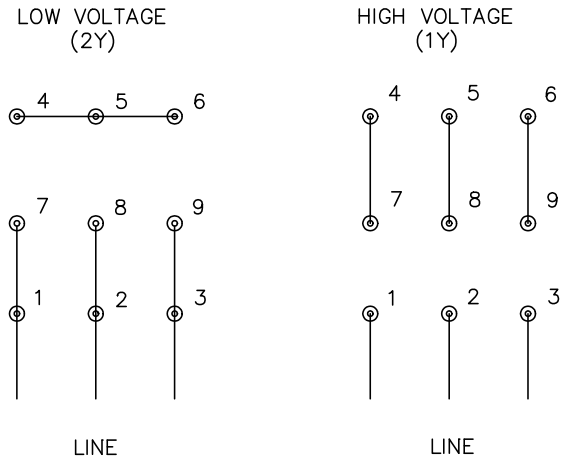
TORQUES(LB-FT): PO=96.4 PU=39.6 LR=50 LRA=75.6




09LYC111
(920 - 960) = 23.11 [587]
10.11 [257]
4.07 [103]
3.75 [95]
.31 KEY
2.75 [70]
LONG
Ø 1.3750
1.3745 [35]
SLINGER
DRAIN FITTING
(EA. END)
8 HOLES
Ø.53 [13]
8.25 [210]
8.25 [210]
.75 [19]
10.00 [254]
4.25 [108]
11.50 [292]
12.94 [329]
10.18 [259]
6.63 [168]
2.70 [69]
12.88 [327]
6.25
6.19 [159]
LEAD
HOLE
Ø1.75 [44]
5.00 [127]
5.00 [127]
8.18 [208]
5.75 [146]
11.50 [292]
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CHG 09SF1112A01 TO '1107A02, 09CB3002 TO 'CB3003
REV: N
VERSION: 09
REVISED: 04:05:00 04/19/2021
TDR: 000001165978
MODEL NO. 09LYC111
REF: -
BY: USODDIL
B
BALDOR - RELIANCE®
HORZ TEFC 254-6U
09LYC111

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