ABB BALDOR RELIANCE

Customer information packet

CEWDM22976T

7.5HP, 1180RPM, 3PH, 60HZ, 254TC, 3954M, TEFC
Class -
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	254TC
Frame Material	Steel
Frequency	60.00 Hz
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	460.0 V @ 60 HZ
	230.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UR
	CSA
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	11.000 A @ 460.0 V
	22.000 A @ 230.0 V
	23.000 A @ 208.0 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
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater

Part Detail

Revision	AH
Type	AC
Mech. spec.	39R098
Base	
Status	PRD/A
Elec. spec.	39WGX718
Layout	39LYR098
Eff. date	01-22-2025
CD Diagram	CD0005
Poles	06
Leads	9#12
Proprietary	False
Created date	06-16-2010

High Voltage Full Load Amps	11.0 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	3954M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.57 IN
Power Factor	69
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
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

NP1669L											
CAT.NO.	CEWDM22976T										
SPEC.	39R098X718G1										
HP	7.5										
VOLTS	230/460										
AMP	22/11										
RPM	1180										
FRAME	254TC	**HZ**	60				**PH**	3			
SER.F.	1.15	**CODE**	K	**DES**	A	**CLASS**	F				
NEMA-NOM-EFF	91	**PF**	69								
RATING	40C AMB-CONT										
CC	010A										
DE	6309	**ODE**	6208								
ENCL	TEFC	**SN**									
BLANK	20:1 CT 20:1 VT										

AC Induction Motor Performance Data
Record # 31521
Typical performance - not guaranteed values

Winding: 39WGX718-R001	**Type:** 3954M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			7.5	**Full Load Torque**	33.2 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			23-22/11	**Breakdown Torque**	107 LB-FT
R.P.M.			1180	**Pull-up Torque**	42.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	63.1 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	75.8 A
Service Factor (S.F.)			1.15	**No-load Current**	6.02 A
NEMA Nom. Eff.	91	**Power Factor**	69	**Line-line Res. @ 25ºC**	0.891 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	33°C
S.F. Amps				**Temp. Rise @ S.F. Load**	39°C
				Locked-rotor Power Factor	26
				Rotor inertia	4.34 LB-FT2

Load Characteristics 460 V, 60 Hz, 7.5 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	31	51	63	70	73	74	72
Efficiency	83.8	90.3	91.6	91.6	91.3	90.5	91.4
Speed	1196	1193	1189	1184	1180	1175	1182
Line amperes	6.74	7.71	9.19	11	13.2	15.7	12.3

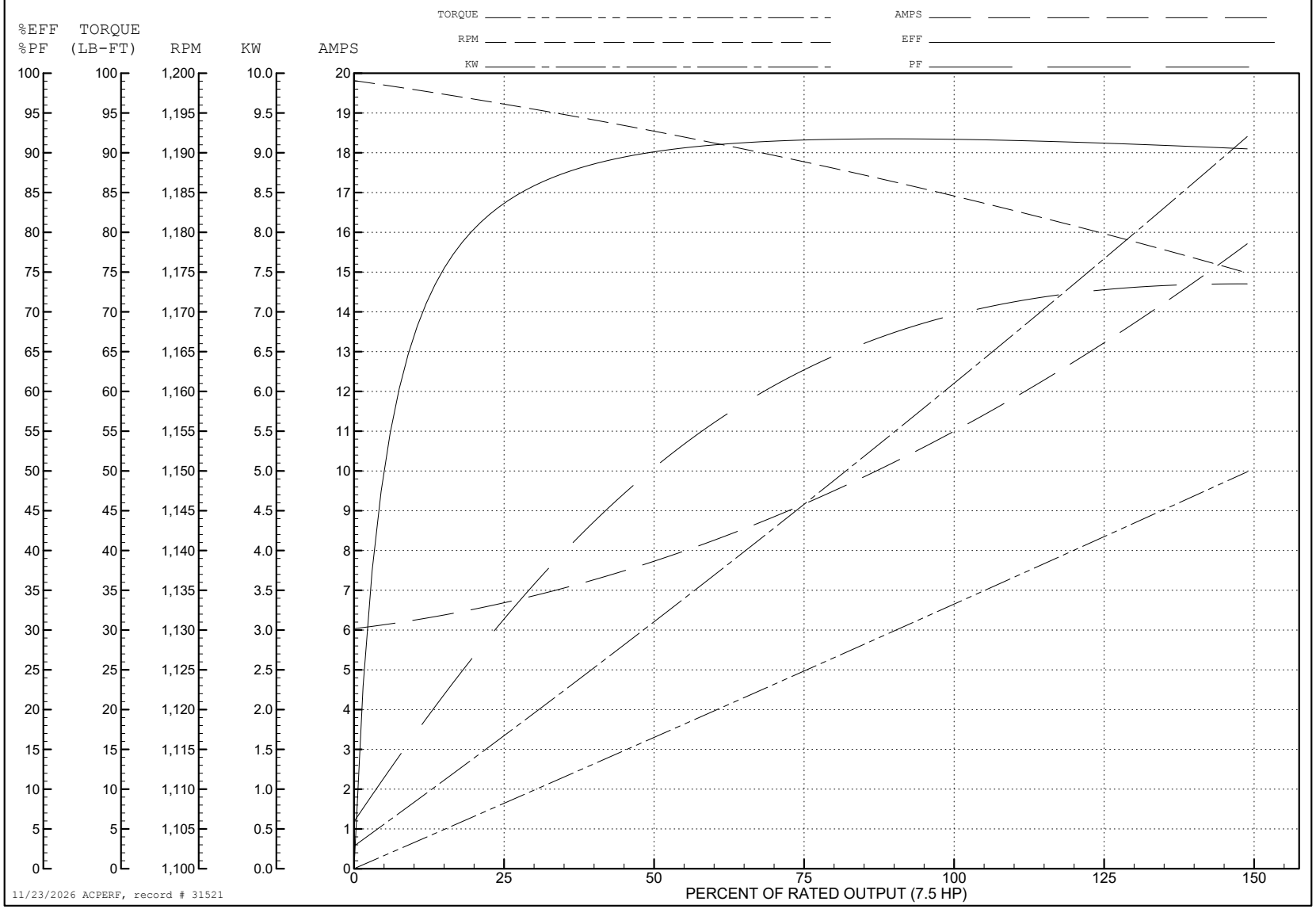
ABB Motors and Mechanical Inc.

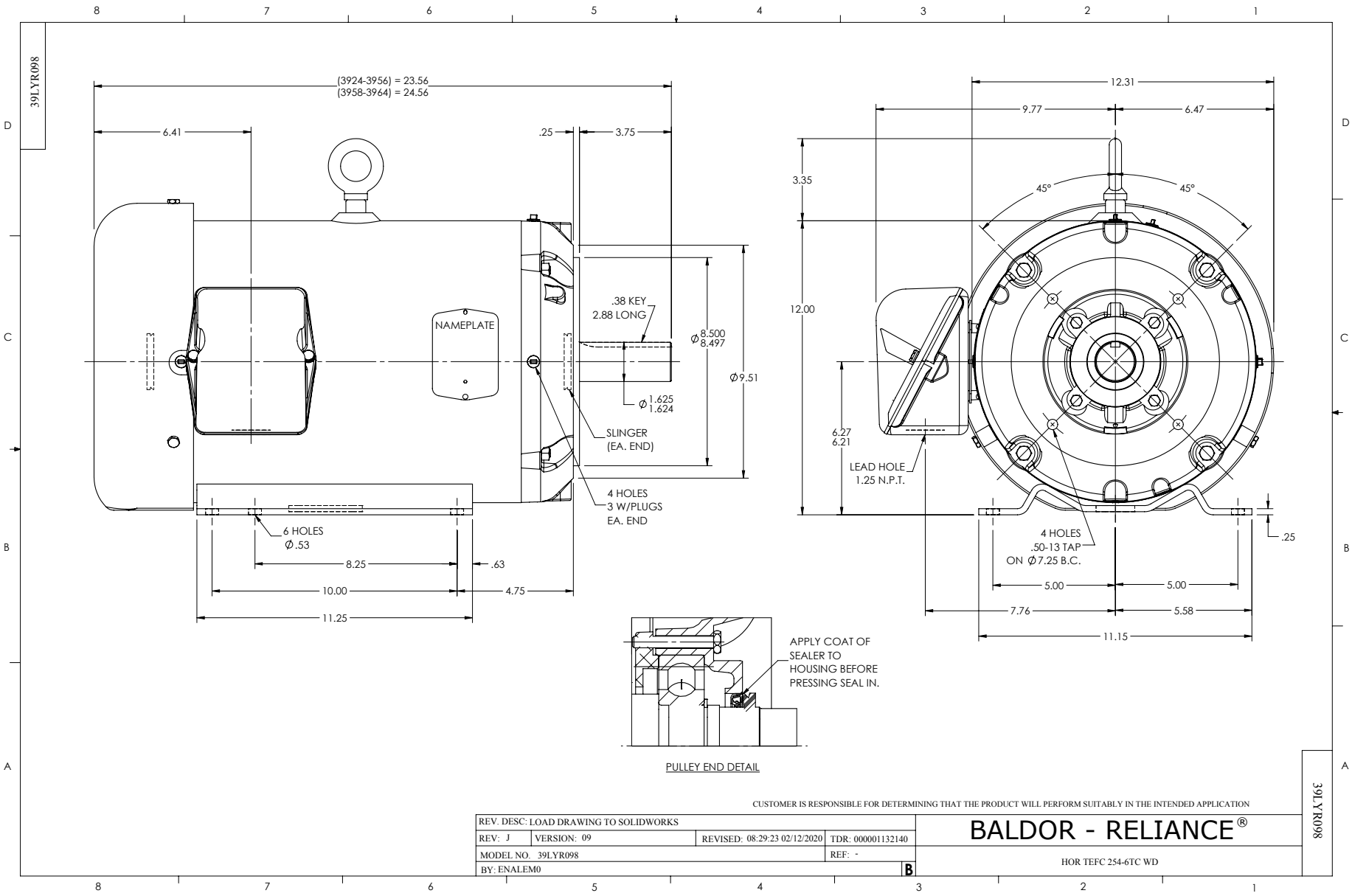
WINDING # 39WGX718

7.5 HP 3 PH 60 HZ 1180 RPM 460 V 3954M

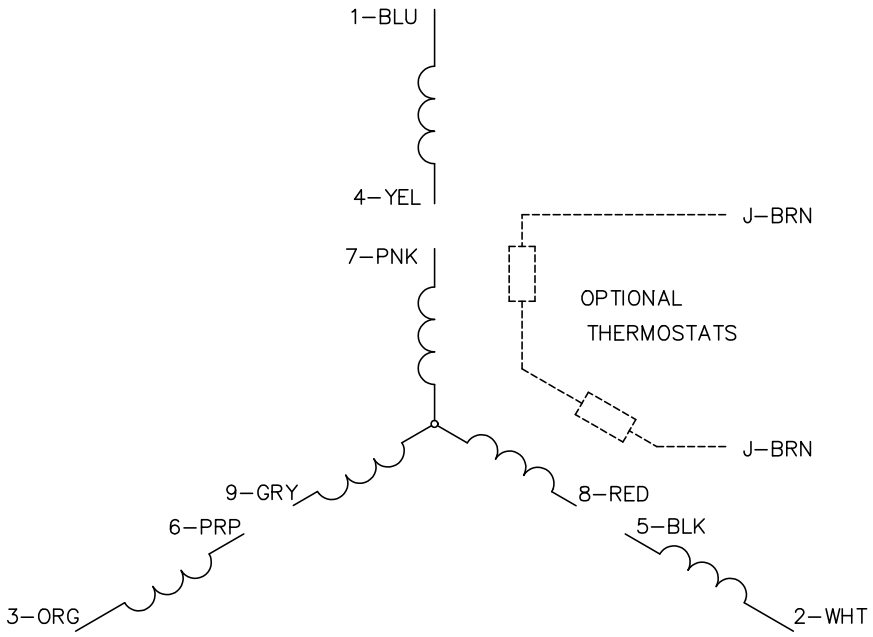
Typical performance - not guaranteed values.

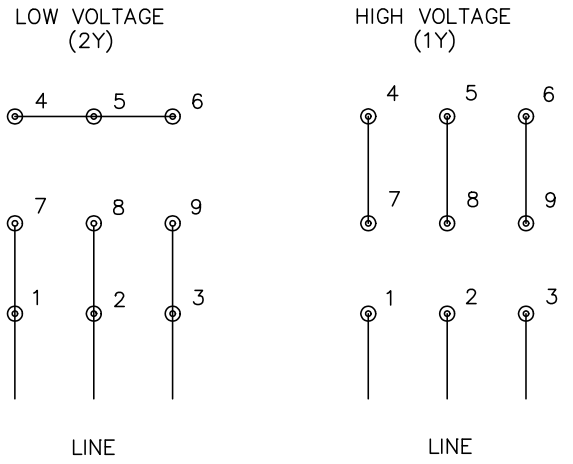
TORQUES(LB-FT): PO=107 PU=42.9 LR=63.1 LRA=75.8




39LYR098
(3924-3956) = 23.56
(3958-3964) = 24.56
6.41
.25
3.75
NAMEPLATE
.38 KEY
2.88 LONG
Ø 8.500
8.497
Ø9.51
Ø 1.625
1.624
SLINGER
(EA. END)
4 HOLES
3 W/PLUGS
EA. END
6 HOLES
Ø .53
8.25
.63
10.00
4.75
11.25
12.31
9.77
6.47
3.35
45°
45°
12.00
6.27
6.21
LEAD HOLE
1.25 N.P.T.
4 HOLES
.50-13 TAP
ON Ø7.25 B.C.
.25
5.00
5.00
7.76
5.58
11.15
APPLY COAT OF
SEALER TO
HOUSING BEFORE
PRESSING SEAL IN.
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: J
VERSION: 09
REVISED: 08:29:23 02/12/2020
TDR: 000001132140
MODEL NO. 39LYR098
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HOR TEFC 254-6TC WD
39LYR098

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