ABB BALDOR RELIANCE

Customer information packet

CEWDM23932T

10HP, 1180RPM, 3PH, 60HZ, 256TC, 3956M, TEFC, F
Class -
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
11/19/2026 8:30:36 PM

Specifications

Enclosure	TEFC
Frame	256TC
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	10.000 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	15.100 A @ 460.0 V
	30.200 A @ 230.0 V
	30.600 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.	39WGX705
Layout	39LYR098
Eff. date	01-22-2025
CD Diagram	CD0180
Poles	06
Leads	9#12
Proprietary	False
Created date	06-14-2010

High Voltage Full Load Amps	15.1 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	3956M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	23.57 IN
Power Factor	68
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
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.	CEWDM23932T								
SPEC.	39R098X705G1								
HP	10								
VOLTS	230/460								
AMP	30.2/15.1								
RPM	1180								
FRAME	256TC	**HZ**	60			**PH**	3		
SER.F.	1.00	**CODE**	K	**DES**	A	**CLASS**	F		
NEMA-NOM-EFF	91	**PF**	68						
RATING	40C AMB-CONT								
CC	010A								
DE	6309	**ODE**	6208						
ENCL	TEFC	**SN**							
BLANK	10:1 CT 20:1 VT								

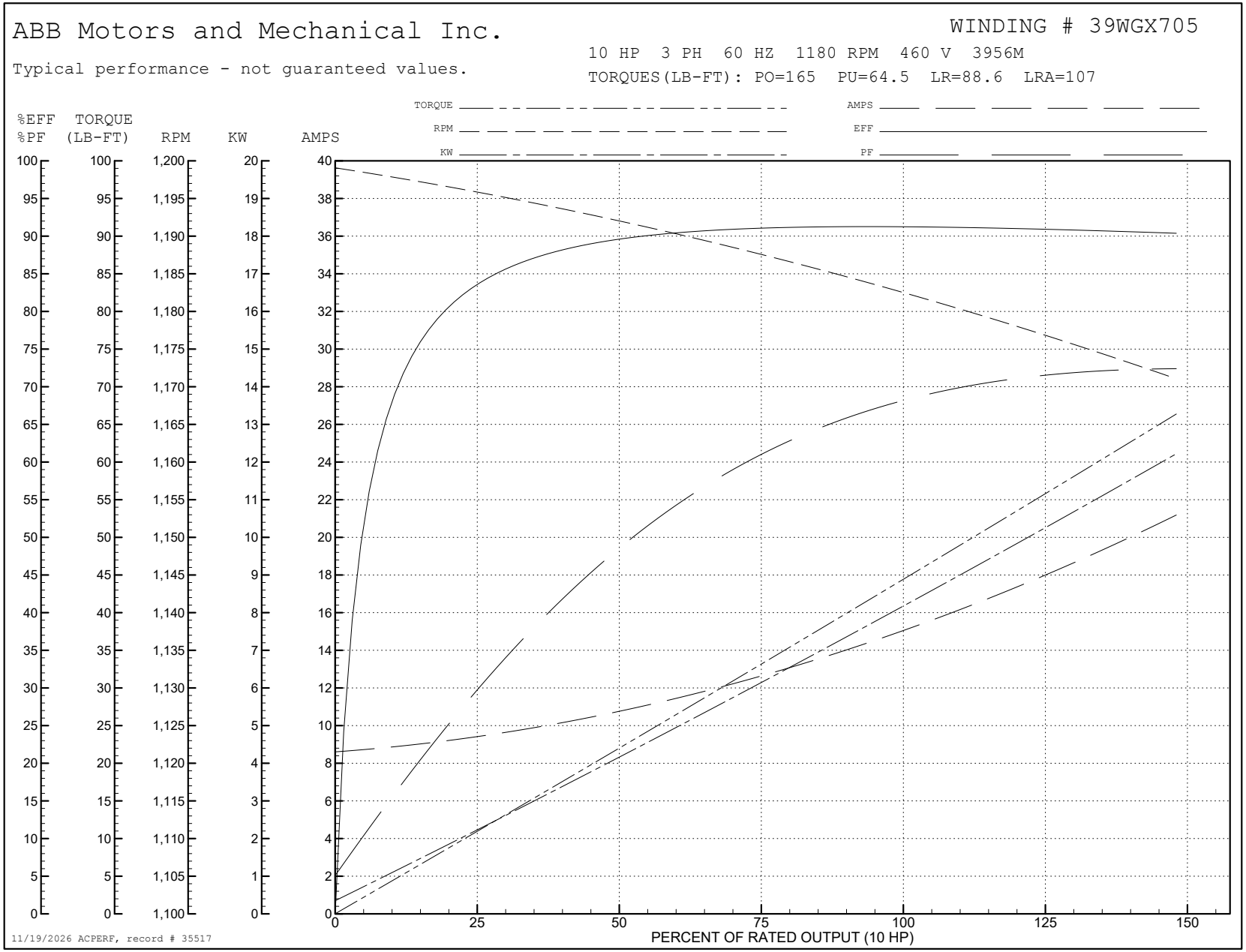
AC Induction Motor Performance Data
Record # 35517
Typical performance - not guaranteed values

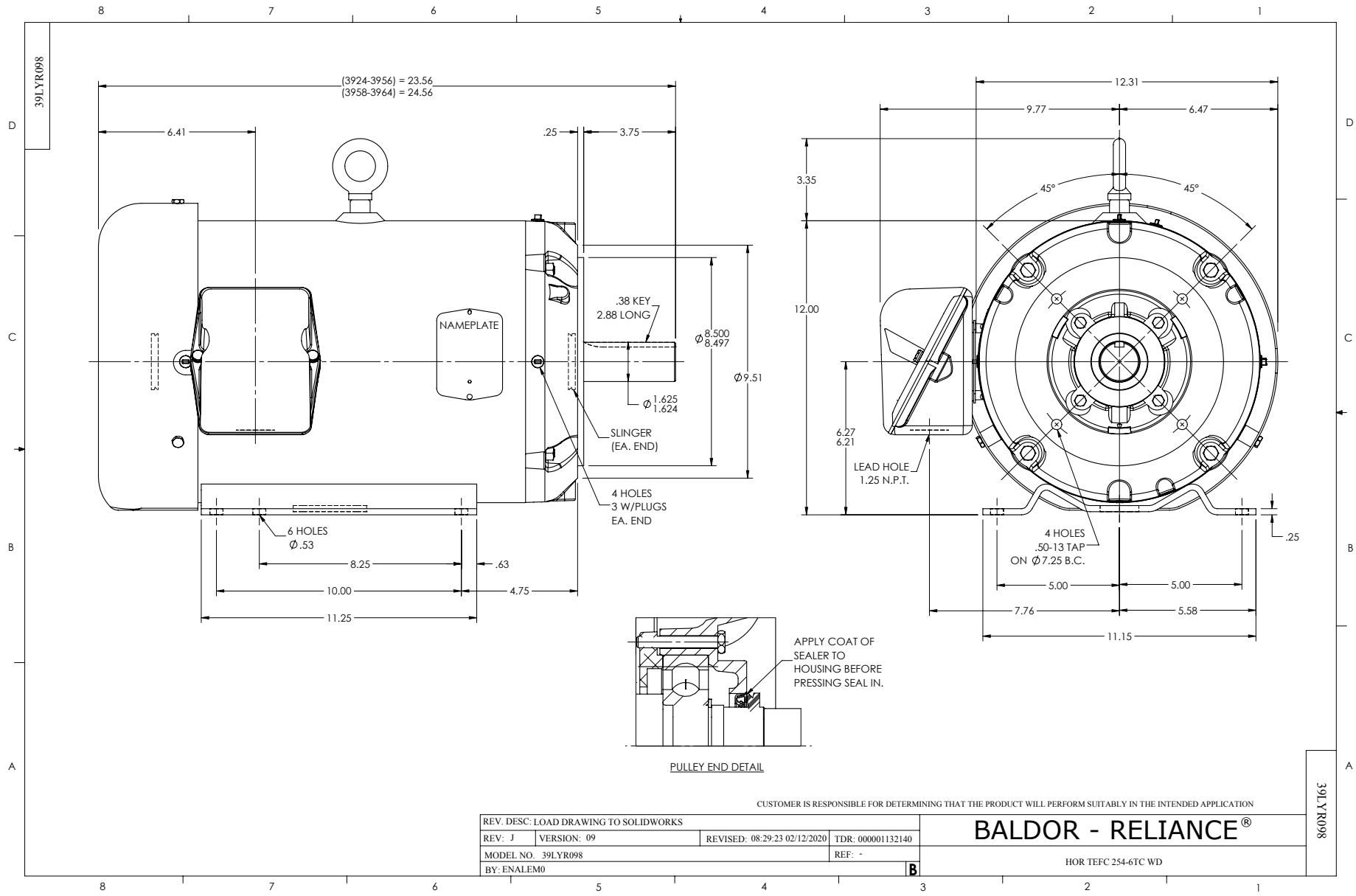
Winding: 39WGX705-R002	**Type:** 3956M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	44.3 LB-FT
Volts			208-230/460	**Start Configuration**	direct on line
Full Load Amps			30.6-30.2/15.1	**Breakdown Torque**	165 LB-FT
R.P.M.			1180	**Pull-up Torque**	64.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	88.6 LB-FT
NEMA Design Code	A	**KVA Code**	K	**Starting Current**	107 A
Service Factor (S.F.)			1	**No-load Current**	8.63 A
NEMA Nom. Eff.	91	**Power Factor**	68	**Line-line Res. @ 25ºC**	0.635 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	79°C
				Locked-rotor Power Factor	26
				Rotor inertia	4.5 LB-FT2

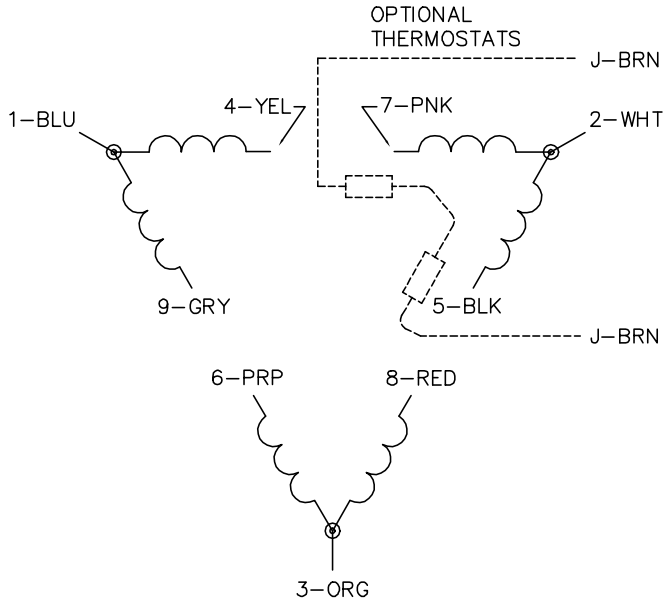
Load Characteristics 460 V, 60 Hz, 10 HP

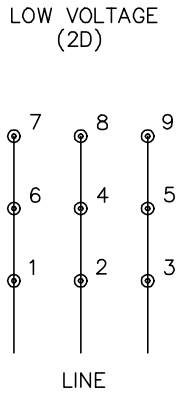
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	30	49	61	68	71	73
Efficiency	83	89.4	91.2	91.4	91	90.3
Speed	1196	1192	1187	1183	1177	1171
Line amperes	9.45	10.7	12.6	15.1	18	21.1

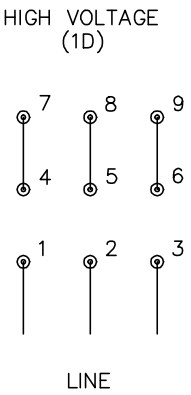

ABB Motors and Mechanical Inc.
WINDING # 39WGX705
10 HP 3 PH 60 HZ 1180 RPM 460 V 3956M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=165 PU=64.5 LR=88.6 LRA=107
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
11/19/2026 ACPERF, record # 35517


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

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

SH 1 of 1