Customer information packet

CWDM3541

.75HP, 3450RPM, 3PH, 60HZ, 56C, 3518M, TENV, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TENV
Frame	56C
Frame Material	Steel
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	.750 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	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	1.100 A @ 460.0 V
	2.200 A @ 230.0 V
	2.300 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
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	AL
Type	AC
Mech. spec.	35T964
Base	
Status	PRD/A
Elec. spec.	35WGT097
Layout	35LYT964
Eff. date	07-25-2025
CD Diagram	CD0005
Poles	02
Leads	9#18
Proprietary	False
Created date	06-22-2007

High Voltage Full Load Amps	1.1 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	N
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3518M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	11.07 IN
Power Factor	80
Product Family	Wash Down
Pulley End Bearing Type	Sealed Bearing
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.25
Shaft Diameter	0.625 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3450 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

NP1496L											
CAT.NO.	CWDM3541										
SPEC.	35T964T097										
HP	.75										
VOLTS	230/460										
AMP	2.2/1.1										
RPM	3450										
FRAME	56C		**HZ**	60			**PH**	3			
SER.F.	1.25	**CODE**	N	**DES**	B	**CLASS**	F				
NEMA-NOM-EFF	80	**PF**	80								
RATING	40C AMB-CONT										
CC											
DE	6205		**ODE**	6203							
ENCL	TENV	**SN**									
	SFA 2.6/1.3										

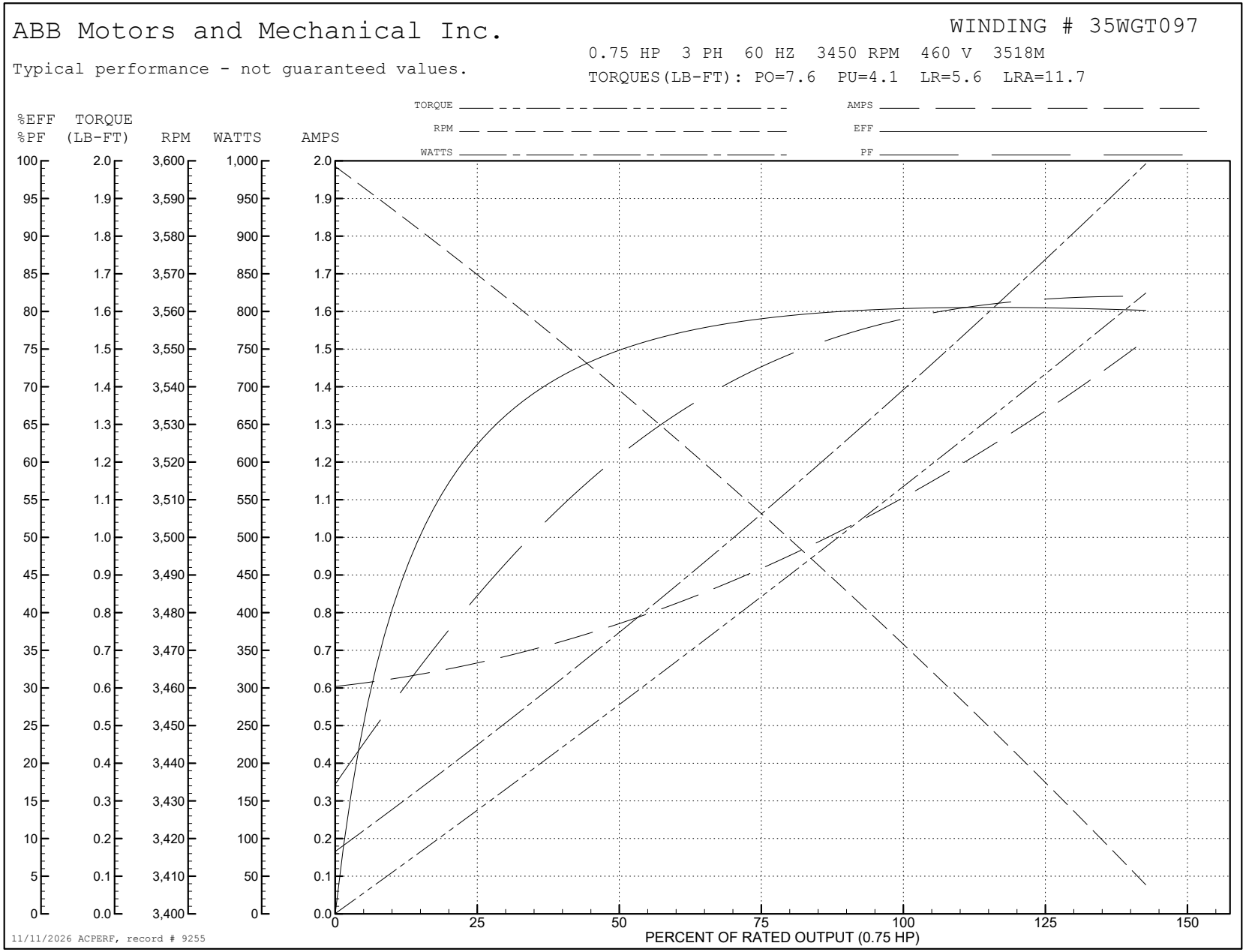
AC Induction Motor Performance Data
Record # 9255
Typical performance - not guaranteed values

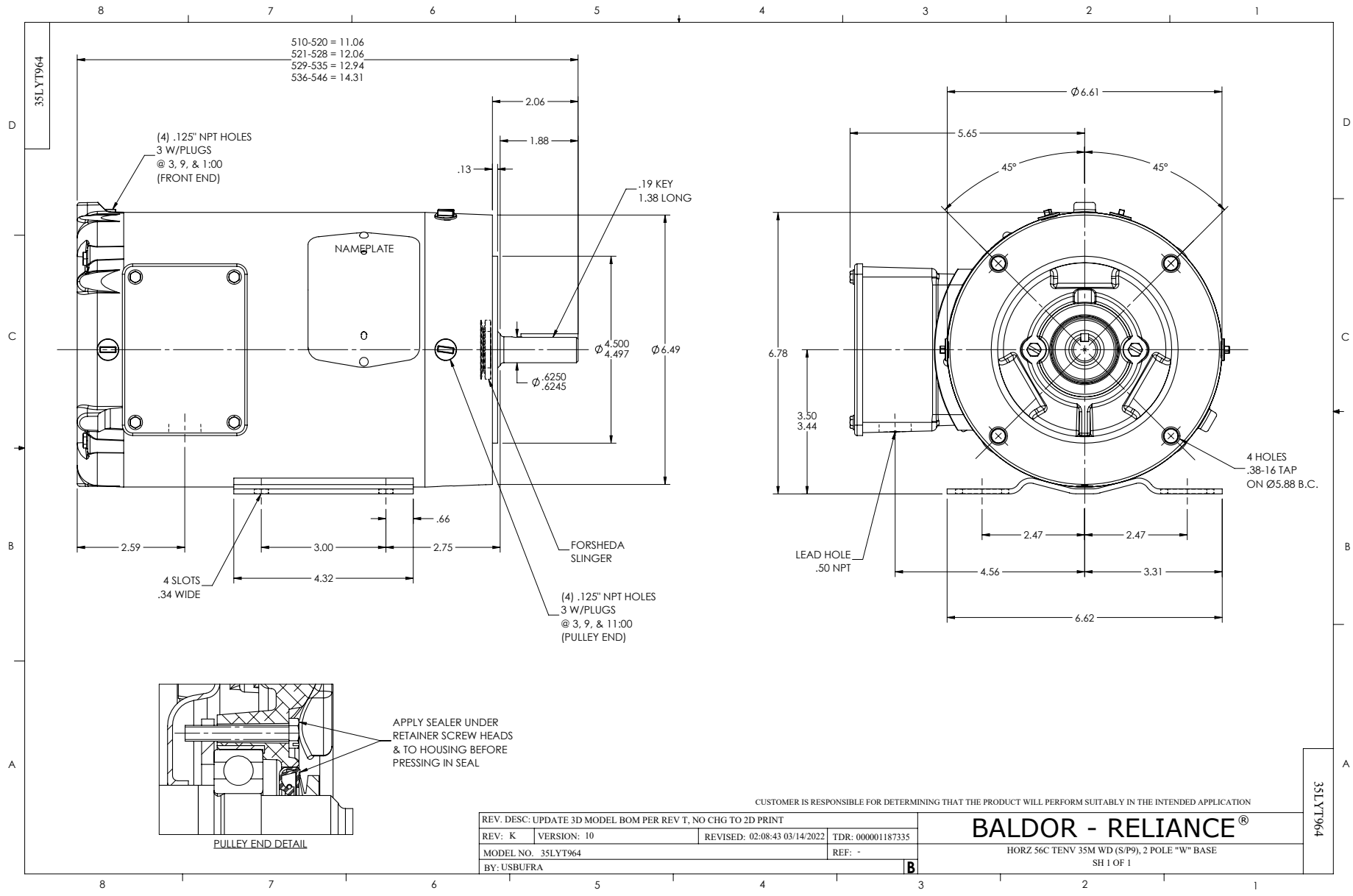
Winding: 35WGT097-R001	**Type:** 3518M	**Enclosure:** TENV

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			.75	**Full Load Torque**	1.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			2.2/1.1	**Breakdown Torque**	7.6 LB-FT
R.P.M.			3450	**Pull-up Torque**	4.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	5.6 LB-FT
NEMA Design Code	B	**KVA Code**	N	**Starting Current**	11.7 A
Service Factor (S.F.)			1.25	**No-load Current**	0.61 A
NEMA Nom. Eff.	80	**Power Factor**	80	**Line-line Res. @ 25ºC**	14.8 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	65°C
S.F. Amps			2.6/1.3	**Temp. Rise @ S.F. Load**	77°C

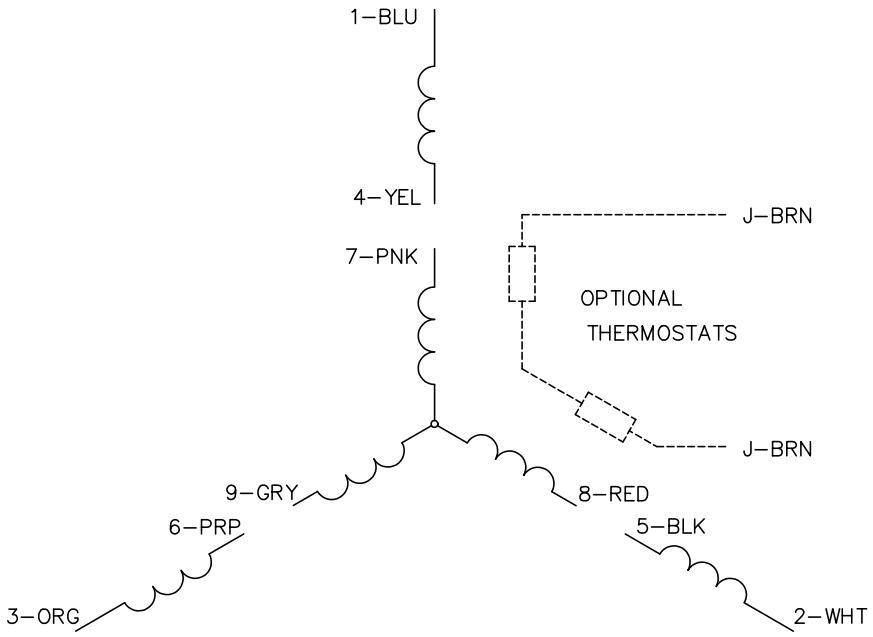
Load Characteristics 460 V, 60 Hz, 0.75 HP

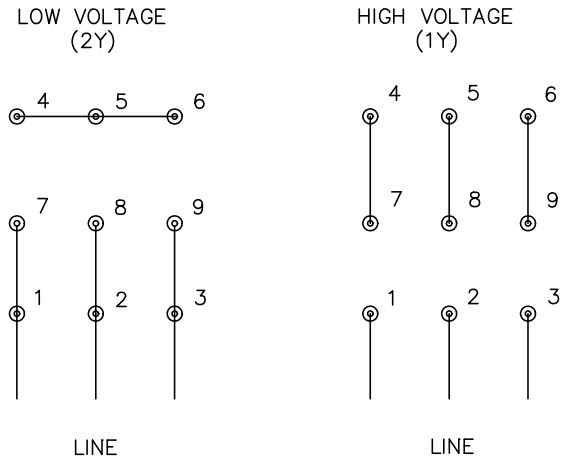
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	45	63	73	80	81	80	0
Efficiency	62.6	74.4	78.7	80.4	80.7	80.1	0
Speed	3571	3536	3509	3477	3444	3406	0
Line amperes	0.66	0.76	0.91	1.09	1.29	1.52	1.3


ABB Motors and Mechanical Inc.
WINDING # 35WGT097
Typical performance - not guaranteed values.
0.75 HP 3 PH 60 HZ 3450 RPM 460 V 3518M
TORQUES(LB-FT): PO=7.6 PU=4.1 LR=5.6 LRA=11.7
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
11/11/2026 ACPERF, record # 9255
PERCENT OF RATED OUTPUT (0.75 HP)


35LYT964
510-520 = 11.06
521-528 = 12.06
529-535 = 12.94
536-546 = 14.31
2.06
1.88
.13
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 1:00
(FRONT END)
.19 KEY
1.38 LONG
NAMEPLATE
Ø 4.500
4.497
Ø6.49
Ø .6250
.6245
.66
2.59
3.00
2.75
4.32
4 SLOTS
.34 WIDE
FORSHEDA
SLINGER
(4) .125" NPT HOLES
3 W/PLUGS
@ 3, 9, & 11:00
(PULLEY END)
Ø6.61
5.65
45°
45°
6.78
3.50
3.44
4 HOLES
.38-16 TAP
ON Ø5.88 B.C.
LEAD HOLE
.50 NPT
2.47
2.47
4.56
3.31
6.62
APPLY SEALER UNDER
RETAINER SCREW HEADS
& TO HOUSING BEFORE
PRESSING IN SEAL
PULLEY END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: UPDATE 3D MODEL BOM PER REV T, NO CHG TO 2D PRINT
REV: K
VERSION: 10
REVISED: 02:08:43 03/14/2022
TDR: 000001187335
MODEL NO. 35LYT964
REF: -
BY: USBUFRA
B
BALDOR - RELIANCE®
HORZ 56C TENV 35M WD (S/P9), 2 POLE "W" BASE
SH 1 OF 1
35LYT964

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