ABB BALDOR RELIANCE

Customer information packet

CXM050542

.5//.33HP, 1770//1475RPM, 3PH, 60//50HZ, 56C
Class - CLI GP D; CLII GP F,G
Division - Division I

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11/16/2026 4:24:45 AM

Specifications

Enclosure	XPFC
Frame	56C
Frame Material	Steel
Frequency	50.00 Hz
	60.00 Hz
Haz Area Class and Group	CLI GP D; CLII GP F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	.330 HP @ 50 HZ
	.500 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	190.0 V @ 50 HZ
	460.0 V @ 60 HZ
	380.0 V @ 50 HZ
Agency Approvals	CSA EEV
	UL
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
Constant Torque Speed Range	6
Current @ Voltage	1.800 A @ 230.0 V
	1.900 A @ 208.0 V
	1.740 A @ 190.0 V
	.900 A @ 460.0 V
	.870 A @ 380.0 V
Design Code	B
Drip Cover	No Drip Cover

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	35WGG155
Layout	35LYE2098
Eff. date	02-23-2026
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	10-28-2021

Duty Rating	CONT
Efficiency @ 100% Load	80.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	0.9 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	M
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	2700 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3512M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	14.30 IN
Power Factor	65
Product Family	General Purpose
Pulley Face Code	C-Face
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1770 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None

Winding Thermal 2	None

Nameplate

NP0887XPSL											
NO.				**CC**							
S/N				**TEMP CODE**	T3C						
SPEC.	35-0000-1381			**INV.TYPE**	PWM						
CAT.NO.	CXM050542			**C HP FR**	60	**C HP TO**	90				
HP	.5//.33/0.5//.33			**CT HZ FROM**	6			**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6			**VT HZ TO**	60		
AMPS	1.8/.9//1.74/.87		**MAG CUR**	1.58/0.79							
RPM	1770//1475		**MX RPM**	2700							
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	80				
SER.F.	1.00	**DES**	B	**SL HZ**	1	**WK2**	0.087				
FRAME	56C	**RATING**	40C AMB-CONT								
	SFA 2/1										

AC Induction Motor Performance Data
Record # 90035
Typical performance - not guaranteed values

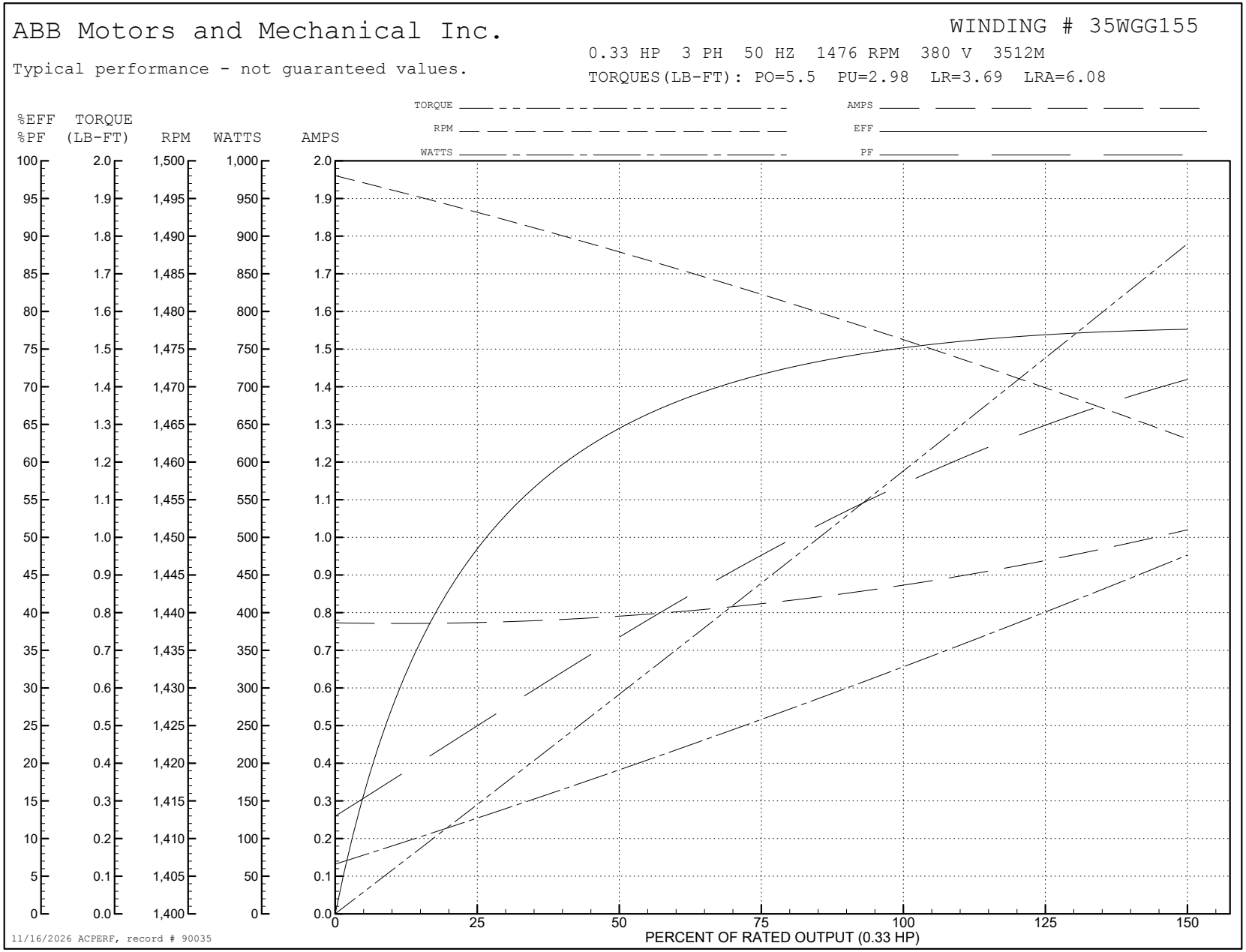
Winding: 35WGG155-R049	**Type:** 3512M	**Enclosure:** TEFC

Nameplate Data			
Rated Output (HP)			.5//.33
Volts			230/460//190/380
Full Load Amps			1.8/.9//1.74/.87
R.P.M.			1770//1475
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	80	**Power Factor**	65
Rating - Duty			40C AMB-CONT

380 V, 50 Hz: High Voltage Connection	
Full Load Torque	1.18 LB-FT
Start Configuration	direct on line
Breakdown Torque	5.5 LB-FT
Pull-up Torque	2.98 LB-FT
Locked-rotor Torque	3.69 LB-FT
Starting Current	6.08 A
No-load Current	0.775 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	19°C
Locked-rotor Power Factor	76.0359
Rotor inertia	0.0866 lb-ft²

Load Characteristics 380 V, 50 Hz, 0.33 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	26	37	48	57	65	71
Efficiency	48.8	64.7	71.7	75.2	77	77.5
Speed	1493	1488	1482	1476	1470	1463
Line amperes	0.771	0.789	0.828	0.875	0.938	1.02


ABB Motors and Mechanical Inc.
WINDING # 35WGG155
Typical performance - not guaranteed values.
0.33 HP 3 PH 50 HZ 1476 RPM 380 V 3512M
TORQUES(LB-FT): PO=5.5 PU=2.98 LR=3.69 LRA=6.08
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.33 HP)
11/16/2026 ACPERF, record # 90035

AC Induction Motor Performance Data
Record # 90036
Typical performance - not guaranteed values

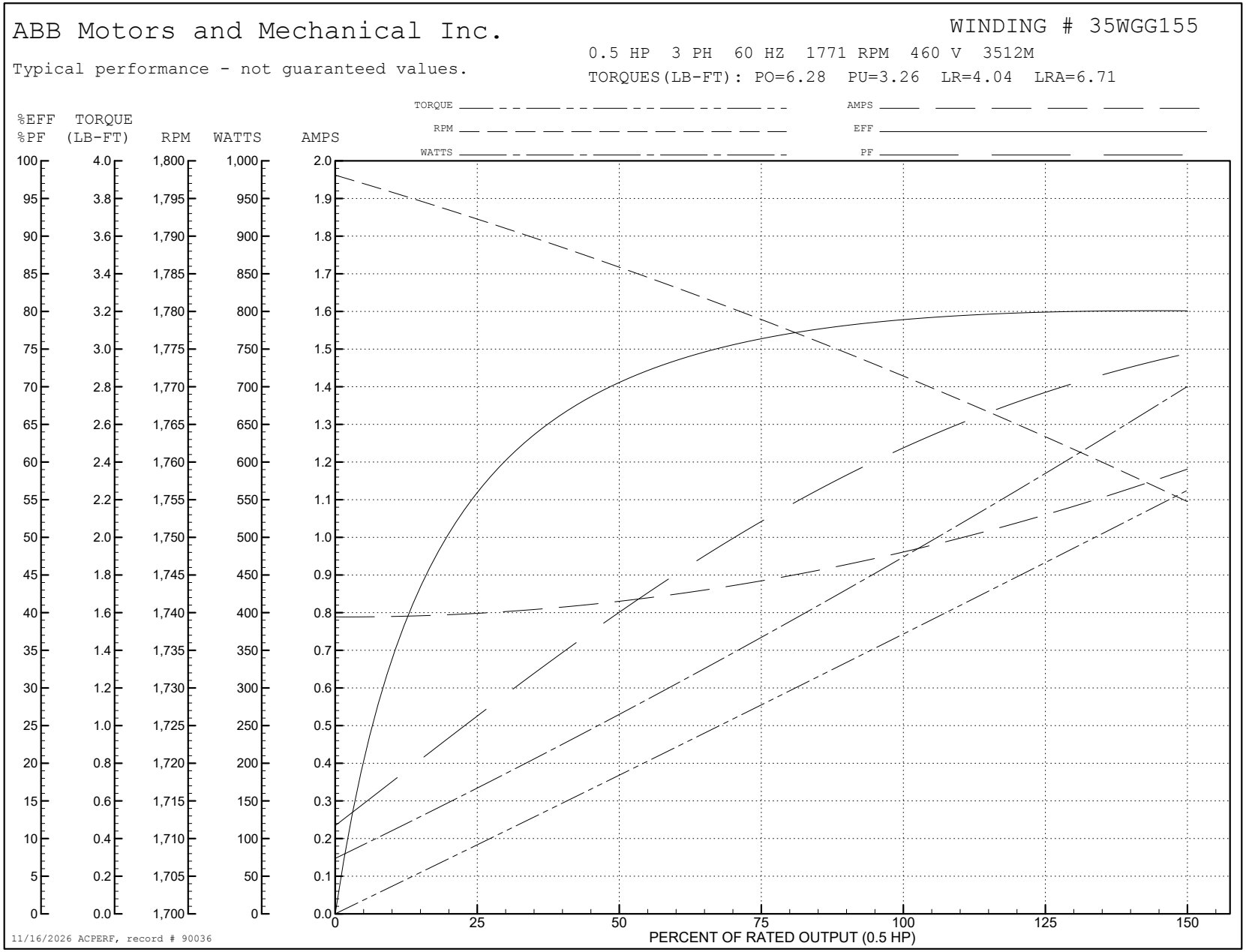
Winding: 35WGG155-R049	**Type:** 3512M	**Enclosure:** TEFC

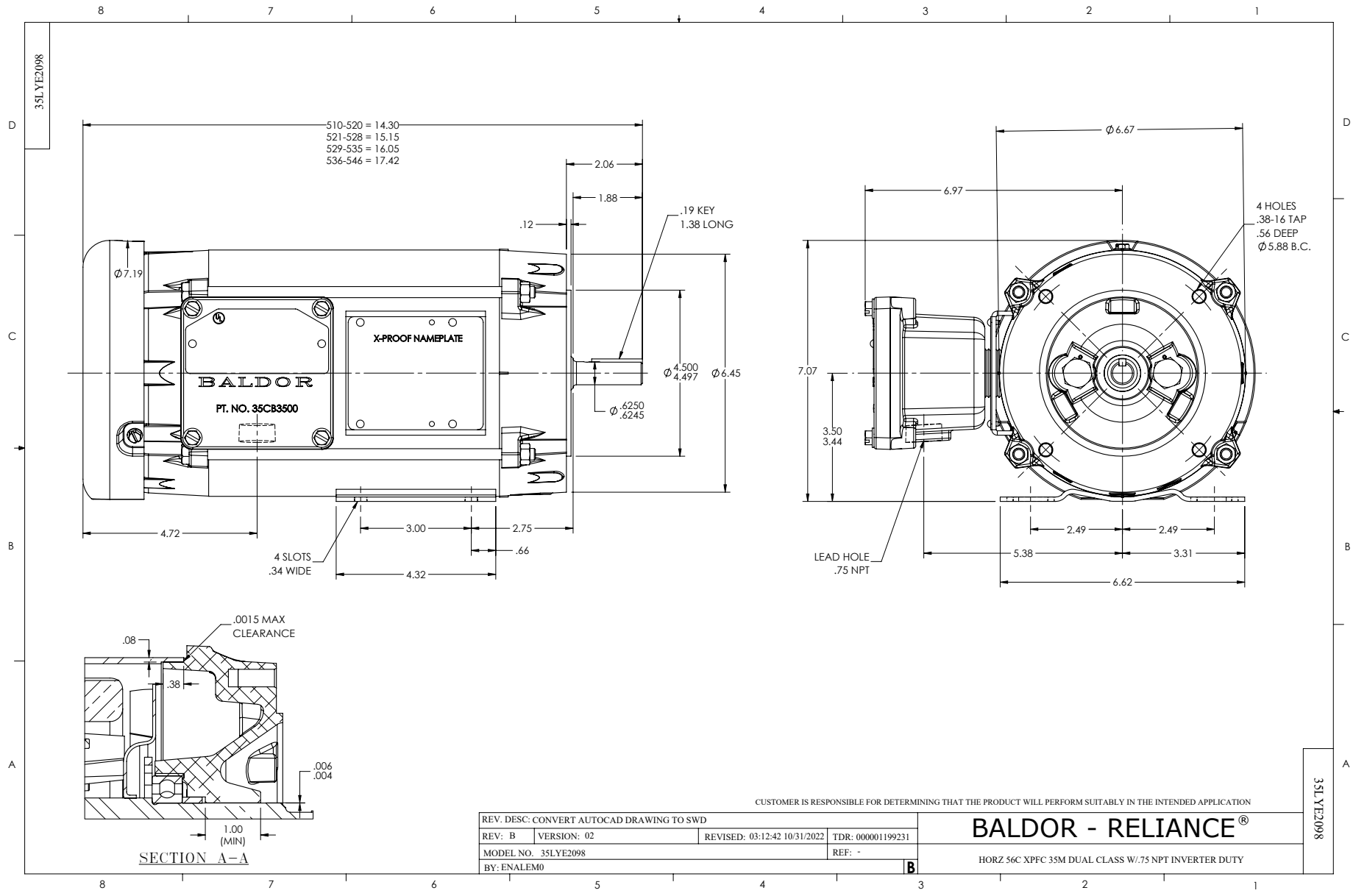
Nameplate Data			
Rated Output (HP)			.5//.33
Volts			230/460//190/380
Full Load Amps			1.8/.9//1.74/.87
R.P.M.			1770//1475
Hz	60//50	**Phase**	3
NEMA Design Code	B	**KVA Code**	M
Service Factor (S.F.)			1
NEMA Nom. Eff.	80	**Power Factor**	65
Rating - Duty			40C AMB-CONT

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	1.49 LB-FT
Start Configuration	direct on line
Breakdown Torque	6.28 LB-FT
Pull-up Torque	3.26 LB-FT
Locked-rotor Torque	4.04 LB-FT
Starting Current	6.71 A
No-load Current	0.792 A
Line-line Res. @ 25ºC	43.2 Ω
Temp. Rise @ Rated Load	22°C
Locked-rotor Power Factor	70.7767
Rotor inertia	0.0866 lb-ft²

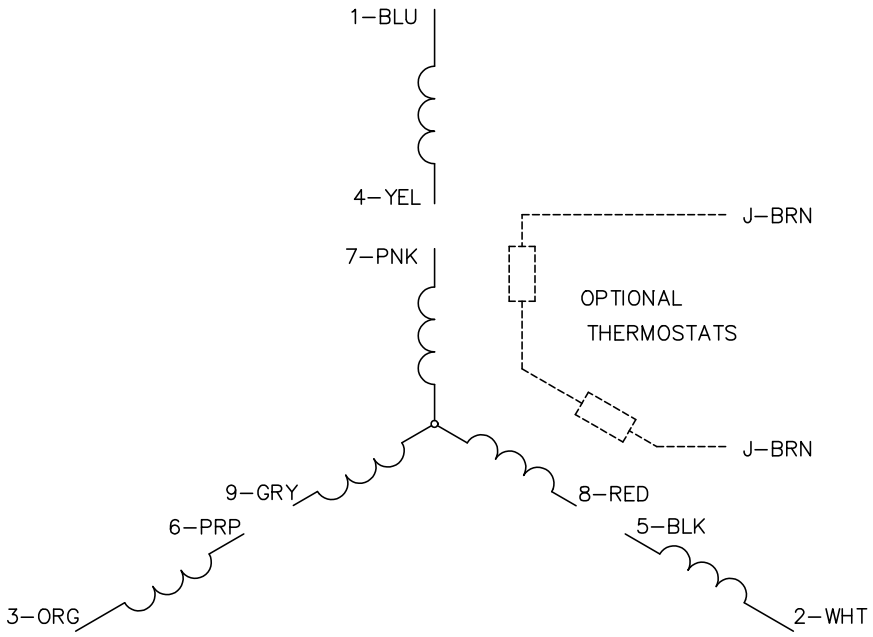
Load Characteristics 460 V, 60 Hz, 0.5 HP

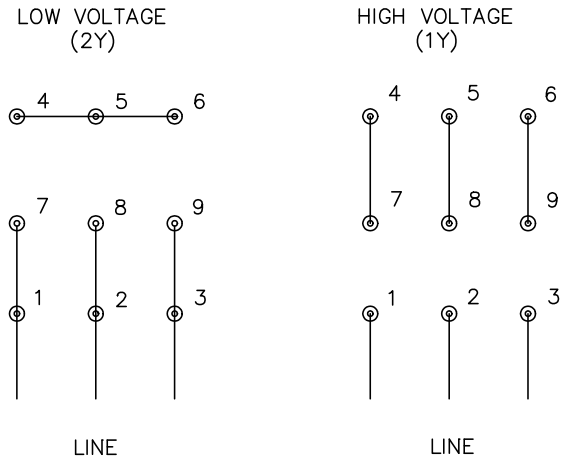
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	27	41	52	62	69	75
Efficiency	56.5	70.7	76.5	78.9	80	80
Speed	1792	1786	1779	1771	1763	1755
Line amperes	0.795	0.827	0.889	0.966	1.06	1.18


ABB Motors and Mechanical Inc.
WINDING # 35WGG155
Typical performance - not guaranteed values.
0.5 HP 3 PH 60 HZ 1771 RPM 460 V 3512M
TORQUES(LB-FT): PO=6.28 PU=3.26 LR=4.04 LRA=6.71
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (0.5 HP)
11/16/2026 ACPERF, record # 90036


35LYE2098
510-520 = 14.30
521-528 = 15.15
529-535 = 16.05
536-546 = 17.42
2.06
1.88
.12
.19 KEY
1.38 LONG
Ø7.19
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø4.500
4.497
Ø6.45
Ø.6250
.6245
4.72
3.00
2.75
.66
4 SLOTS
.34 WIDE
4.32
Ø6.67
6.97
4 HOLES
.38-16 TAP
.56 DEEP
Ø5.88 B.C.
7.07
3.50
3.44
LEAD HOLE
.75 NPT
2.49
2.49
5.38
3.31
6.62
.0015 MAX
CLEARANCE
.08
.38
.006
.004
1.00
(MIN)
SECTION A–A
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRAWING TO SWD
REV: B
VERSION: 02
REVISED: 03:12:42 10/31/2022
TDR: 000001199231
MODEL NO. 35LYE2098
REF: -
BY: ENALEM0
B
BALDOR - RELIANCE®
HORZ 56C XPFC 35M DUAL CLASS W/.75 NPT INVERTER DUTY
35LYE2098

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