BALDOR • RELIANCE

Customer information packet

VXM05162

1//.75HP, 1155//970RPM, 3PH, 60//50HZ, 56C, 3
Class - CLI GP D; CLII GP F,G
Division - Division I

4/7/2025 12:47:18 PM

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	1.000 HP @ 60 HZ
	.750 HP @ 50 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	190.0 V @ 50 HZ
	230.0 V @ 60 HZ
	380.0 V @ 50 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA EEV
	UL
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	3.500 A @ 208.0 V
	3.200 A @ 190.0 V
	3.000 A @ 230.0 V
	1.600 A @ 380.0 V
	1.500 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT

Part detail

Revision	C
Type	AC
Mech. spec.	35Q643
Base	
Status	PRD/A
Elec. spec.	35WGG019
Layout	35LYQ643
Eff. date	03-08-2024
CD Diagram	CD0005
Poles	06
Leads	9#18
Proprietary	False
Created date	02-23-2023

Efficiency @ 100% Load	82.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	1.5 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3526M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	15.12 IN
Power Factor	67
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.00
Shaft Diameter	0.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1155 rpm
	970 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.	35Q643G019			**INV.TYPE**	PWM				
CAT.NO.	VXM05162			**C HP FR**	60	**C HP TO**	90		
HP	1//.75			**CT HZ FROM**	6	**CT HZ TO**	60		
VOLTS	230/460//190/380			**VT HZ FROM**	6	**VT HZ TO**	60		
AMPS	3/1.5//3.2/1.6			**MAG CUR**	2/1				
RPM	1155//970			**MX RPM**	1800				
HZ	60//50	**PH**	3	**CL**	F	**NOM.EFF.**	82.5		
SER.F.	1.00	**DES**	B	**SL HZ**	1.5	**WK2**	0.189		
FRAME	56C	**RATING**	40C AMB-CONT						
	NEMA MG-1 PART 5, IP54								
	1.15 SF ON SINE WAVE								

AC Induction Motor Performance Data
Record # 73789
Typical performance - not guaranteed values

Winding: 35WGM497-R087	**Type:** 3526M	**Enclosure:** XPFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			1//.75	**Full Load Torque**	4.51 LB-FT
Volts			230/460//190/380	**Start Configuration**	direct on line
Full Load Amps			3.6/1.8//3.4/1.7	**Breakdown Torque**	15.23 LB-FT
R.P.M.			1155//960	**Pull-up Torque**	11.1 LB-FT
Hz	60//50	**Phase**	3	**Locked-rotor Torque**	11.9 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	10.8 A
Service Factor (S.F.)			1	**No-load Current**	1.21 A
NEMA Nom. Eff.	82.5	**Power Factor**	64	**Line-line Res. @ 25ºC**	16.1 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
				Locked-rotor Power Factor	41.5
				Rotor inertia	0.155 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**
Power Factor	28	44	56	65	71	75
Efficiency	66	77	80.7	81.4	80.9	79.5
Speed	1190	1180	1170	1158	1145	1129
Line amperes	1.25	1.37	1.54	1.77	2.04	2.35

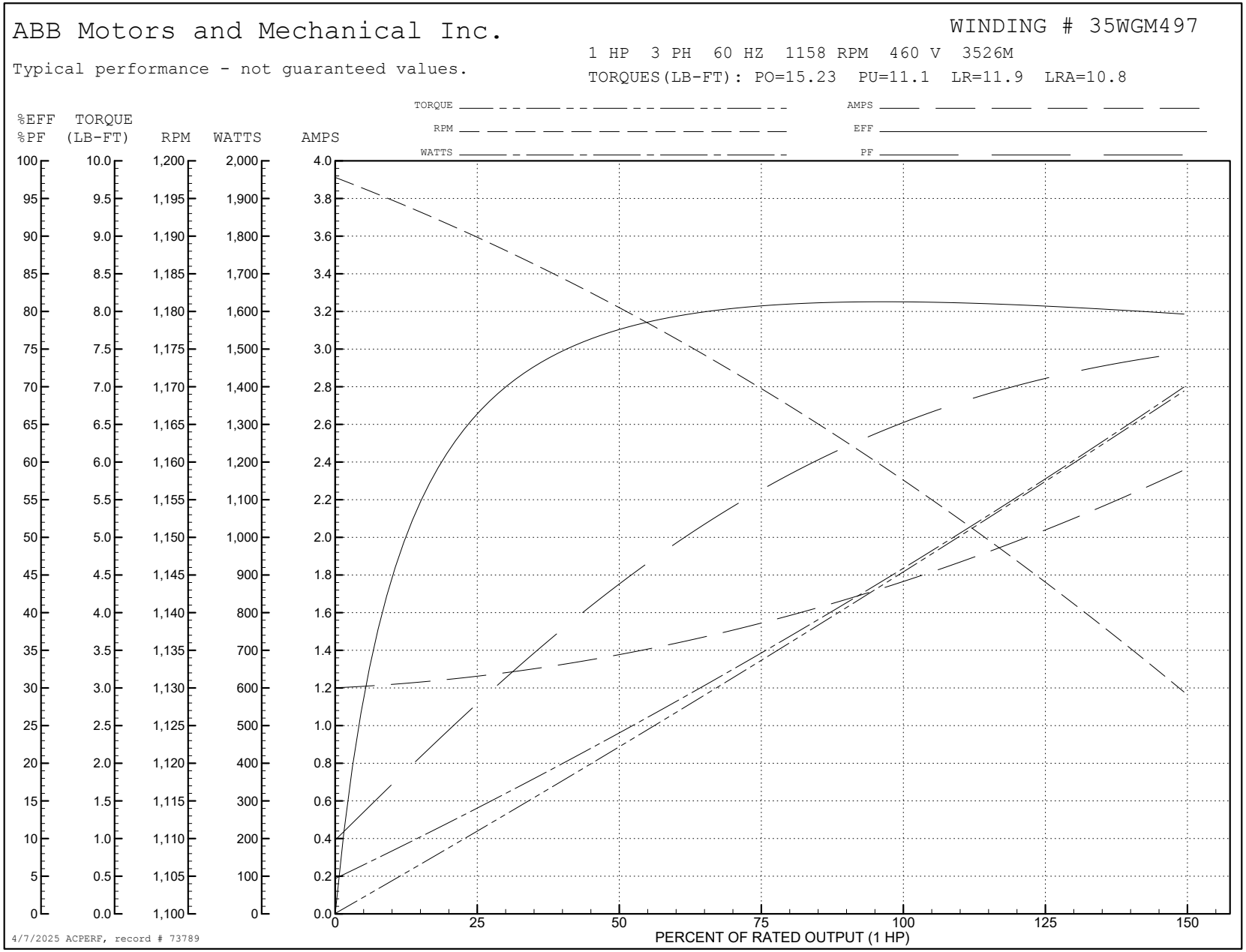
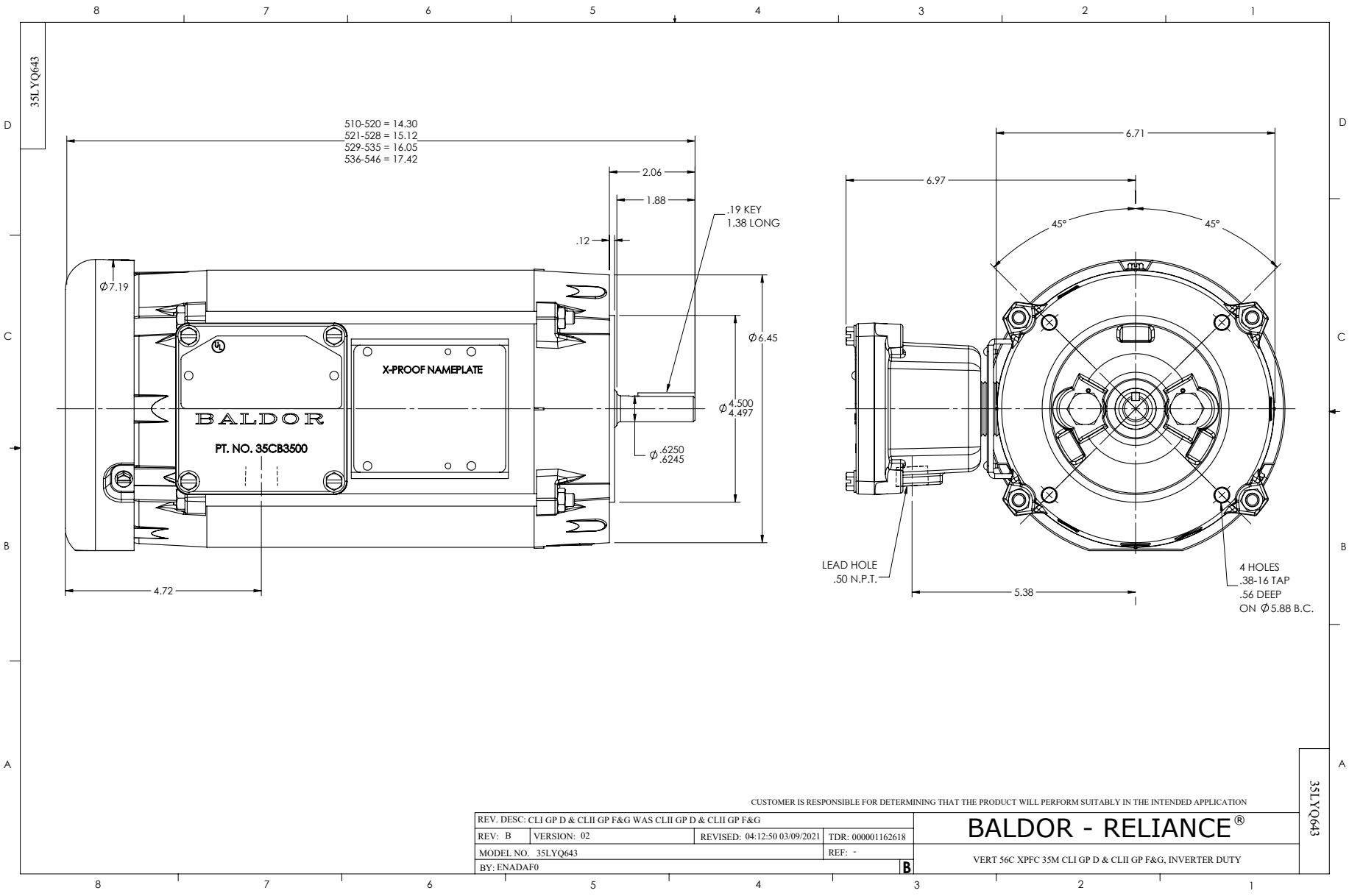
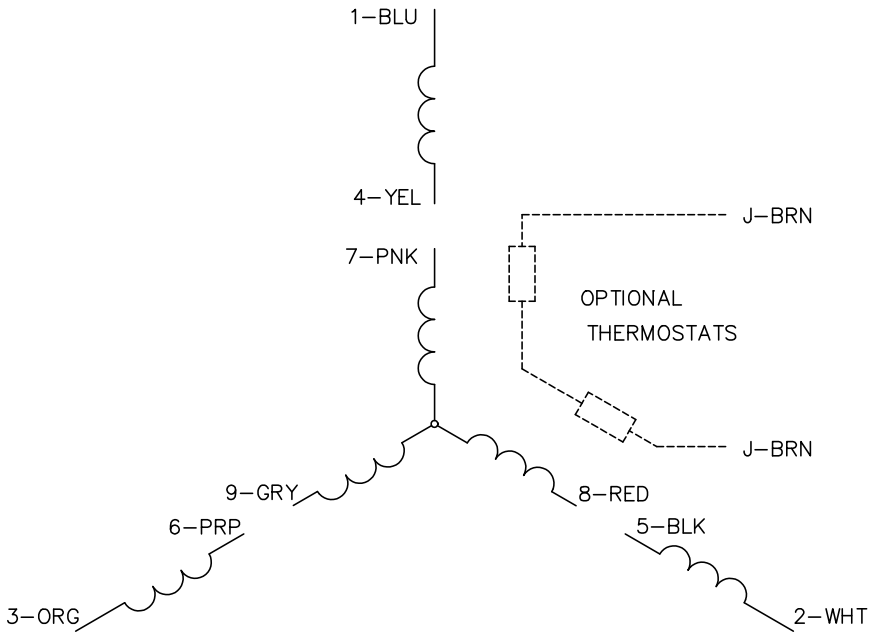
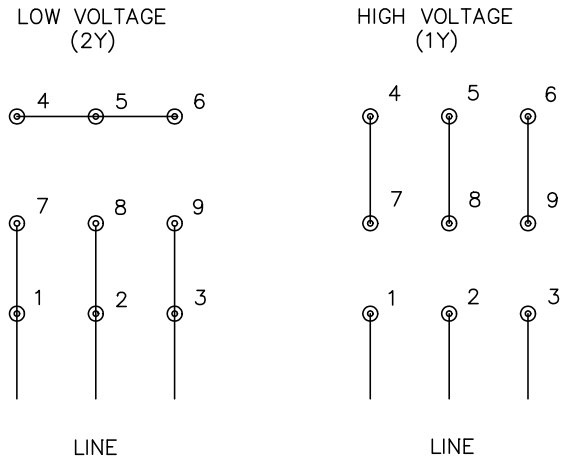


ABB Motors and Mechanical Inc.
WINDING # 35WGM497
Typical performance - not guaranteed values.
1 HP 3 PH 60 HZ 1158 RPM 460 V 3526M
TORQUES(LB-FT): PO=15.23 PU=11.1 LR=11.9 LRA=10.8
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (1 HP)
4/7/2025 ACPERF, record # 73789


35LYQ643
510-520 = 14.30
521-528 = 15.12
529-535 = 16.05
536-546 = 17.42
2.06
1.88
.19 KEY
1.38 LONG
.12
Ø7.19
Ø6.45
X-PROOF NAMEPLATE
BALDOR
PT. NO. 35CB3500
Ø 4.500
4.497
Ø .6250
.6245
4.72
6.71
6.97
45°
45°
LEAD HOLE
.50 N.P.T.
5.38
4 HOLES
.38-16 TAP
.56 DEEP
ON Ø5.88 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CLI GP D & CLII GP F&G WAS CLII GP D & CLII GP F&G
REV: B
VERSION: 02
REVISED: 04:12:50 03/09/2021
TDR: 000001162618
MODEL NO. 35LYQ643
REF: -
BY: ENADAF0
B
BALDOR - RELIANCE®
VERT 56C XPFC 35M CLI GP D & CLII GP F&G, INVERTER DUTY
35LYQ643

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