BALDOR • RELIANCE

Product Information Packet

VEM3556T

1HP,1155RPM,3PH,60HZ,145TC,3526M,TEFC,F1

Part Detail

Revision:	G	**Status:**	PRD/A	**Change #:**		**Proprietary:**	No
Type:	AC	**Elec. Spec:**	35WGM497	**CD Diagram:**	CD0005	**Mfg Plant:**	
Mech. Spec:	35AA003	**Layout:**	35LYAA003	**Poles:**	06	**Created Date:**	04-21-2015
Base:	N	**Eff. Date:**	09-18-2019	**Leads:**	9#18		

Specs

Catalog Number:	VEM3556T	**Heater Indicator:**	No Heater
Enclosure:	TEFC	**Insulation Class:**	F
Frame:	145TC	**Inverter Code:**	Inverter Ready
Frame Material:	Steel	**KVA Code:**	K
Output @ Frequency:	1.000 HP @ 60 HZ	**Lifting Lugs:**	No Lifting Lugs
Synchronous Speed @ Frequency:	1200 RPM @ 60 HZ	**Locked Bearing Indicator:**	Locked Bearing
Voltage @ Frequency:	460.0 V @ 60 HZ	**Motor Lead Quantity/Wire Size:**	9 @ 18 AWG
	230.0 V @ 60 HZ	**Motor Lead Exit:**	Ko Box
XP Class and Group:	None	**Motor Lead Termination:**	Flying Leads
XP Division:	Not Applicable	**Motor Type:**	3526M
Agency Approvals:	UR	**Mounting Arrangement:**	F1
	CSA EEV	**Power Factor:**	64
	CSA	**Product Family:**	General Purpose
Auxillary Box:	No Auxillary Box	**Pulley End Bearing Type:**	Ball
Auxillary Box Lead Termination:	None	**Pulley Face Code:**	C-Face
Base Indicator:	No Mounting	**Pulley Shaft Indicator:**	Standard
Bearing Grease Type:	Polyrex EM (-20F +300F)	**Rodent Screen:**	None
Blower:	None	**Shaft Extension Location:**	Pulley End

Current @ Voltage:	1.800 A @ 460.0 V
	3.600 A @ 208.0 V
	3.600 A @ 230.0 V
Design Code:	B
Drip Cover:	No Drip Cover
Duty Rating:	CONT
Electrically Isolated Bearing:	Not Electrically Isolated
Feedback Device:	NO FEEDBACK
Front Face Code:	Standard
Front Shaft Indicator:	None

Shaft Ground Indicator:	No Shaft Grounding
Shaft Rotation:	Reversible
Shaft Slinger Indicator:	No Slinger
Speed Code:	Single Speed
Motor Standards:	NEMA
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 NP3441LUA

CAT.NO.	VEM3556T							
SPEC	35AA003M497G3							
HP	1							
VOLTS	230/460							
AMPS	3.6/1.8							
RPM	1155							
FRAME	145TC	**HZ**	60			**PH**	3	
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	F	
NEMA NOM. EFF	82.5	**PF**	64					
RATING	40C AMB-CONT							
CC	010A	**USABLE AT 208V**	3.6					
ENCL	TEFC	**SER**						
DE	6205	**ODE**	6203					
VPWM INVERTER READY								
CT6-60H(10:1)VT3-60H(20:1								
	50Hz 1HP 190/380V 4/2A SF1.0							

Parts List

Part Number	Description	Quantity
SA299812	SA 35AA003M497G3	1.000 EA
RA286844	RA 35AA003M497G3	1.000 EA
35FN3002A05SP	EXFN, PLASTIC, 6.376 OD, .638 ID	1.000 EA
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 EA
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 EA
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 EA
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 EA
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 EA
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
HW5100A03	WAVY WASHER (W1543-017)	1.000 EA
35EP3307D00	MASTER DE,205 BRG,.998SH,#26 DRN,GRSR	1.000 EA
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 EA
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 EA
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 EA
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 EA
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 EA
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 EA
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 EA
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 EA
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 EA
MJ1000A02	GREASE, MOBIL POLYREX EM - 124047	0.050 LB
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 EA
MG1000Y03	MUNSELL 2.53Y 6.70/ 4.60, GLOSS 20,	0.017 GA

Parts List (continued)

Part Number	Description	Quantity
HA3100A15	THRUBOLT 10-32 X 8.375	4.000 EA
LC0005E01	CONN.DIA./WARNING LABEL (LC0005/LB1119N)	1.000 EA
NP3441LUA	ALUM SUPER-E VPWM INV READY UL CSA-EEV C	1.000 EA
36PA1000	PKG GRP, PRINT PK1016A06	1.000 EA
PK3082	STYROFOAM CRADLE	1.000 EA
MN416A01	TAG-INSTAL-MAINT no wire (2100/bx) 4/22	1.000 EA
PE-0000001	ZRTG PE ASSEMBLY	1.000 EA
FE-0000001	ZRTG FE ASSEMBLY	1.000 EA

AC Induction Motor Performance Data
Record # 53065
Typical performance - not guaranteed values

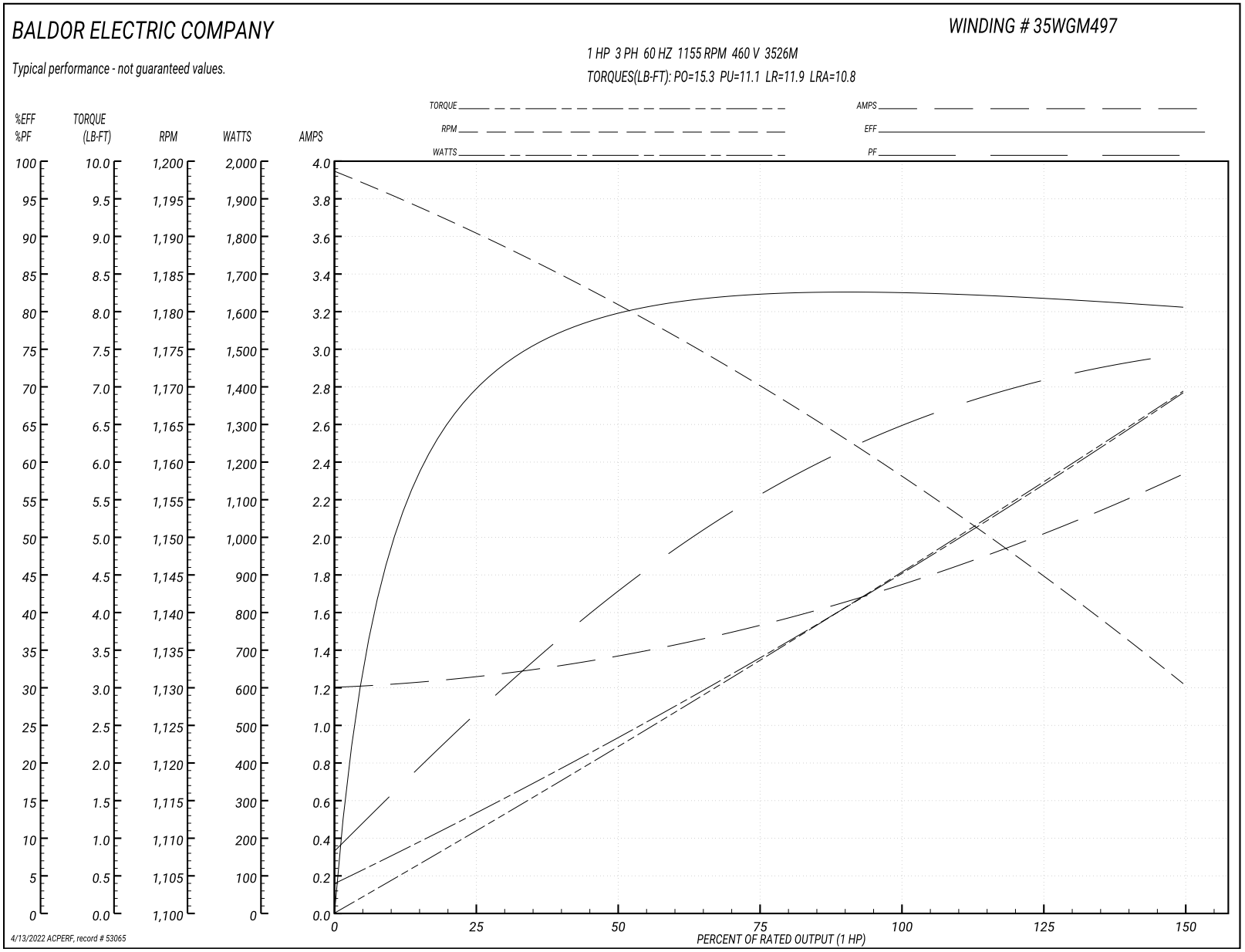
Winding: 35WGM497-R030	**Type:** 3526M	**Enclosure:** TEFC

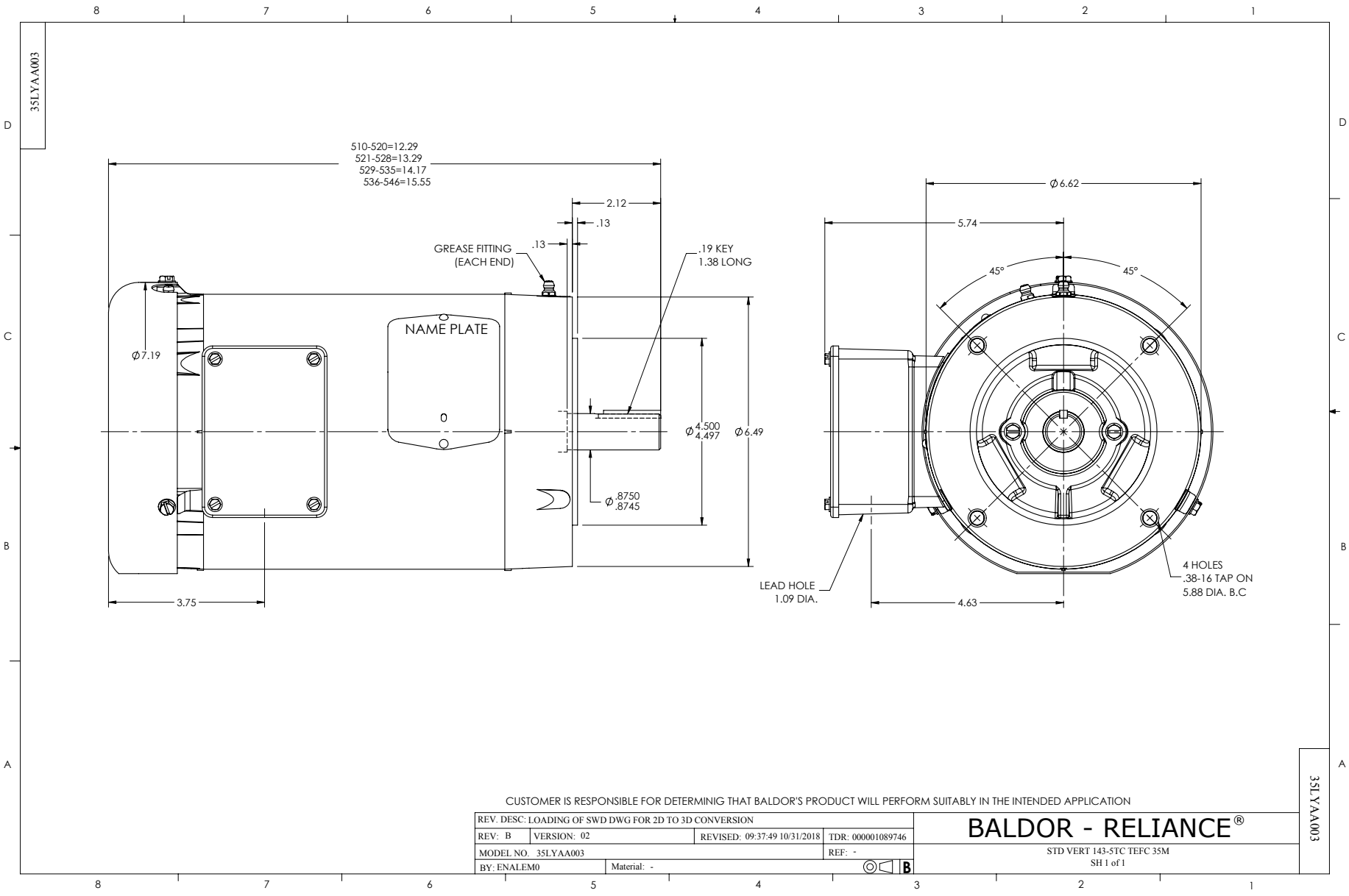
Nameplate Data			**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)		1	**Full Load Torque**	4.51 LB-FT
Volts		230/460	**Start Configuration**	direct on line
Full Load Amps		3.6/1.8	**Breakdown Torque**	15.3 LB-FT
R.P.M.		1155	**Pull-up Torque**	11.1 LB-FT
Hz	60 **Phase**	3	**Locked-rotor Torque**	11.9 LB-FT
NEMA Design Code	B **KVA Code**	K	**Starting Current**	10.8 A
Service Factor (S.F.)		1.15	**No-load Current**	1.21 A
NEMA Nom. Eff.	82.5 **Power Factor**	64	**Line-line Res. @ 25ºC**	16.42 Ω
Rating - Duty		40C AMB-CONT	**Temp. Rise @ Rated Load**	47°C
S.F. Amps			**Temp. Rise @ S.F. Load**	56°C
			Locked-rotor Power Factor	42
			Rotor inertia	0.155 LB-FT2

Load Characteristics 460 V, 60 Hz, 1 HP

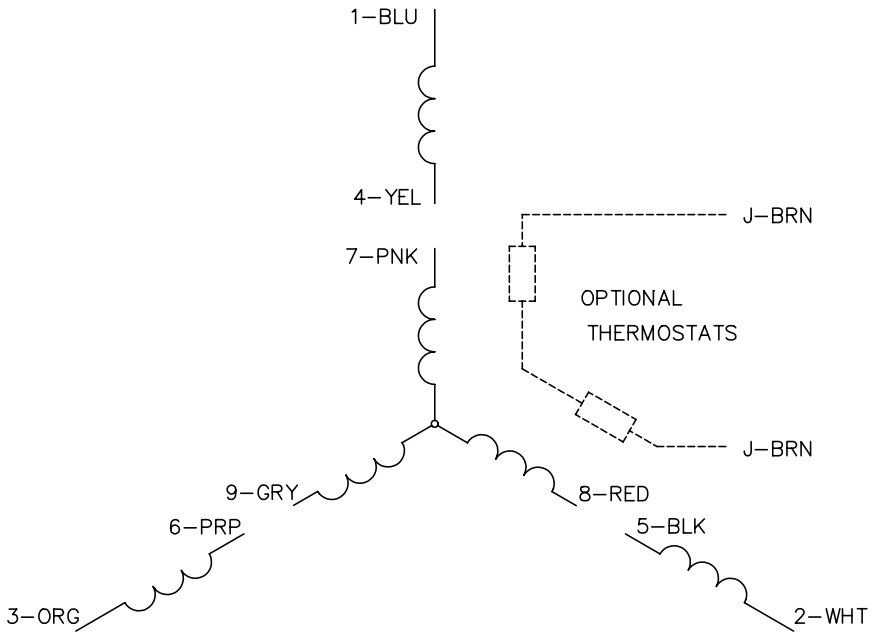
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	27	43	55	64	71	75	68
Efficiency	69	79.4	82.3	82.7	82	80.4	82.3
Speed	1190.4	1180.7	1170.3	1158.7	1145.5	1130.2	1151
Line amperes	1.25	1.36	1.53	1.75	2.02	2.33	1.91

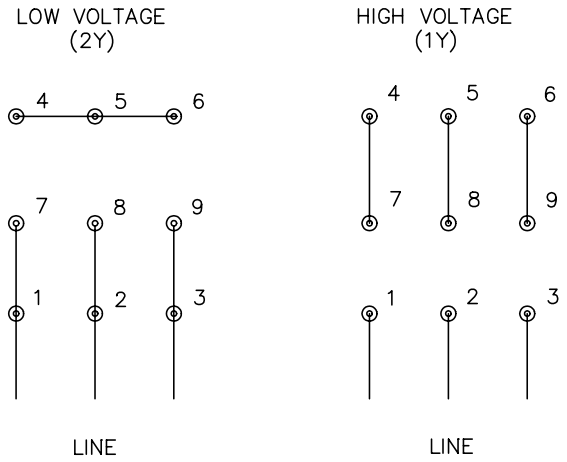
Performance Graph at 460V, 60Hz, 1.0HP Typical performance - Not guaranteed values




35LYAA003
510-520=12.29
521-528=13.29
529-535=14.17
536-546=15.55
2.12
.13
.13
GREASE FITTING
(EACH END)
.19 KEY
1.38 LONG
NAME PLATE
Ø7.19
Ø 4.500
4.497
Ø6.49
Ø .8750
.8745
3.75
Ø6.62
5.74
45°
45°
LEAD HOLE
1.09 DIA.
4.63
4 HOLES
.38-16 TAP ON
5.88 DIA. B.C
CUSTOMER IS RESPONSIBLE FOR DETERMINIG THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOADING OF SWD DWG FOR 2D TO 3D CONVERSION
REV: B
VERSION: 02
REVISED: 09:37:49 10/31/2018
TDR: 000001089746
MODEL NO. 35LYAA003
REF: -
BY: ENALEM0
Material: -
BALDOR - RELIANCE®
STD VERT 143-5TC TEFC 35M
SH 1 of 1
35LYAA003

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