ABB BALDOR RELIANCE

Customer information packet

VEM3611T

3HP, 1764RPM, 3PH, 60HZ, 182TC, 3630M, TEFC, F1
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	182TC
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	3.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	No Mounting
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	4.160 A @ 460.0 V
	8.320 A @ 230.0 V
	8.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	89.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	4.2 a

Part Detail

Revision	B
Type	AC
Mech. spec.	36A003
Base	
Status	PRD/A
Elec. spec.	36WGZ650
Layout	36LYA003
Eff. date	04-16-2026
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	11-05-2025

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3630M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	16.54 IN
Power Factor	74
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1764 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

NP3441LUA									
CAT.NO.	VEM3611T								
SPEC	36A003Z650								
HP	3								
VOLTS	230/460								
AMPS	8.4/4.2								
RPM	1765								
FRAME	182TC	**HZ**	60	**PH**	3				
SF	1.15	**CODE**	K	**DES**	B	**CLASS**	F		
NEMA NOM. EFF	89.5	**PF**	74						
RATING	40C AMB-CONT								
CC	010A								
ENCL	TEFC	**SER**							
DE	6206	**ODE**	6205						
VPWM INVERTER READY	SFA 9.28/4.64								
CT6-60H(10:1)VT3-60H(20:1									
	50HZ 3HP 190/380V 9.6/4.8A								SF1.0

Parts List

Part number	Description	Quantity
SA442967	SA 36A003Z650	1.000 ea
RA435463	RA 36A003Z650	1.000 ea
36FN3000C01SP	EXFN, PLASTIC, 5.25 OD, .912 ID	1.000 ea
36CB3004	36 CB CASTING W/1.09 DIA LEAD HOLE @ 6:0	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A08	10-16X 1/2HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
36EP3104A01	FREP MACH W/GRSR, RAISED FH PADS	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
36EP3301A23	PUEP ASSEMBLY FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A28	1/4-20X 1 3/4 HEX HD	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
36FH4009A102	IEC FH GREASER PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
36CB4516	750LIPPED CB LID - GALVANNEAL	1.000 ea
37GS1001SP	GASKET, CONDUIT BOX LID, .06 THICK LEXID	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501E16	KEY, 1/4 SQ X 1.750	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HA3101A25	THRUBOLT 1/4-20 X 11.000 OHIO ROD	4.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
NP3441LUA	AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM	1.000 ea
36PA1001	PKG GRP, PRINT PK1017A07	1.000 ea
PK3082	STYROFOAM CRADLE	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

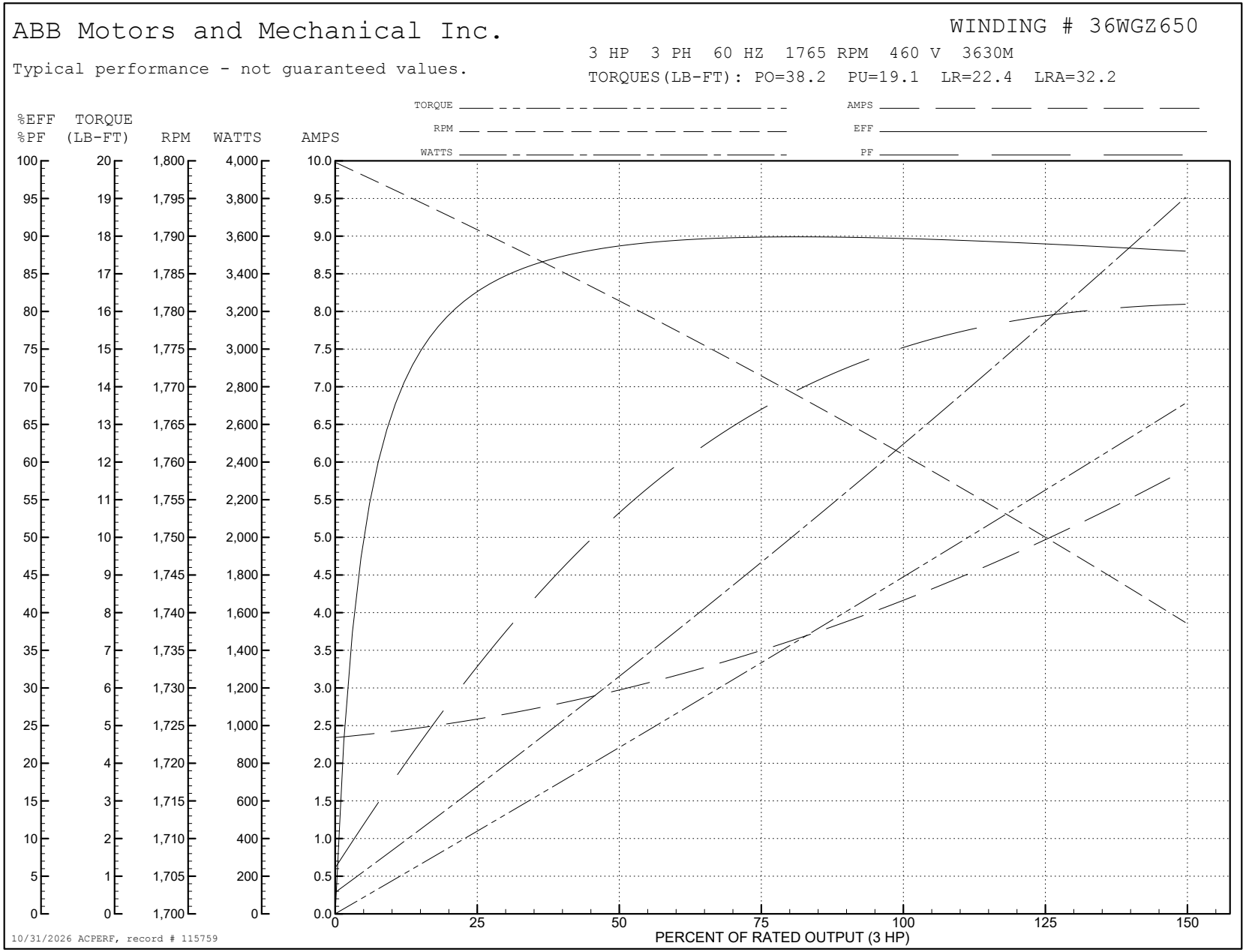
AC Induction Motor Performance Data
Record # 115759
Typical performance - not guaranteed values

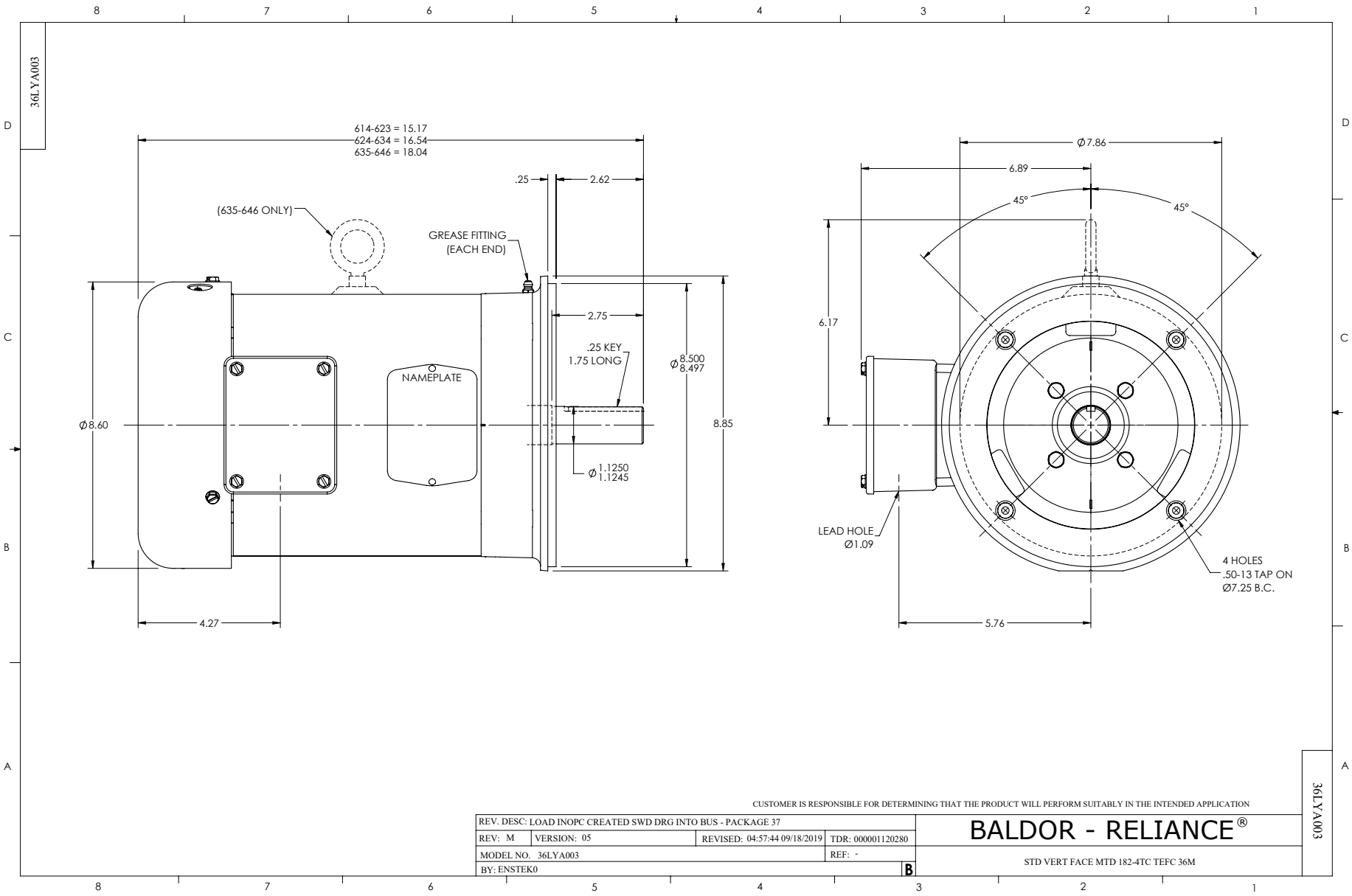
Winding: 36WGZ650-R001	**Type:** 3630M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			3	**Full Load Torque**	8.942 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			8.4/4.2	**Breakdown Torque**	38.2 LB-FT
R.P.M.			1765	**Pull-up Torque**	19.1 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	22.4 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	32.2 A
Service Factor (S.F.)			1.15	**No-load Current**	2.38 A
NEMA Nom. Eff.	89.5	**Power Factor**	74	**Line-line Res. @ 25ºC**	3.8717 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	46°C
S.F. Amps			9.4/4.7	**Temp. Rise @ S.F. Load**	56°C
				Locked-rotor Power Factor	42.6
				Rotor inertia	0.279 lb-ft²

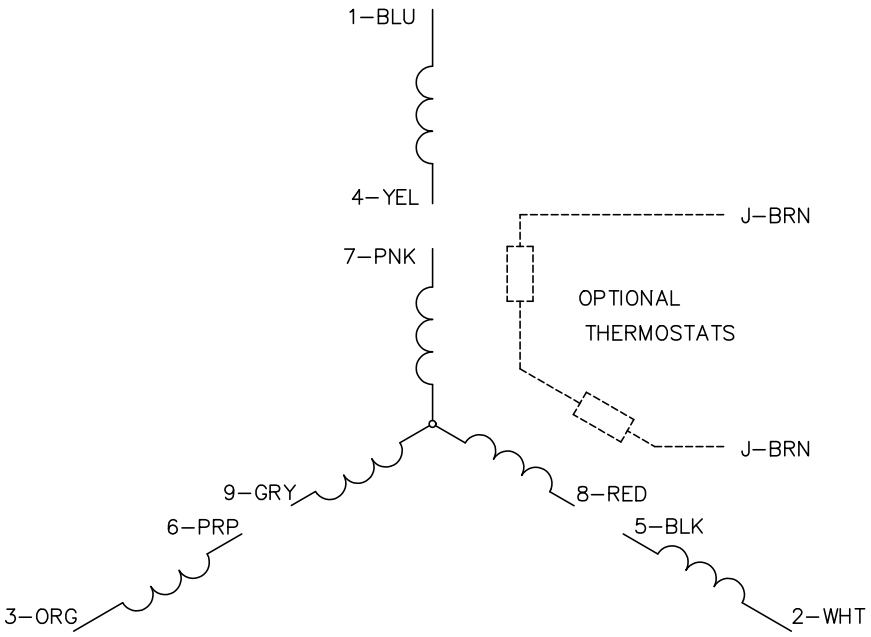
Load Characteristics 460 V, 60 Hz, 3 HP

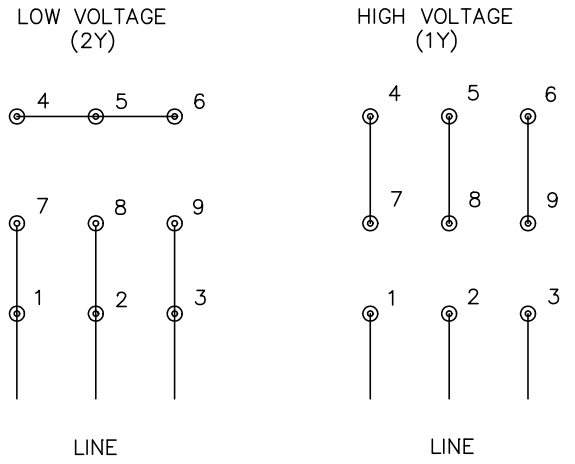
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	33	54	67	74	79	81	77
Efficiency	82.2	88.4	89.8	89.8	89	87.9	89.3
Speed	1790.7	1781.4	1771.4	1761.2	1749.9	1738.7	1754
Line amperes	2.54	2.94	3.51	4.2	4.99	5.87	4.67


ABB Motors and Mechanical Inc.
WINDING # 36WGZ650
Typical performance - not guaranteed values.
3 HP 3 PH 60 HZ 1765 RPM 460 V 3630M
TORQUES(LB-FT): PO=38.2 PU=19.1 LR=22.4 LRA=32.2
TORQUE
RPM
WATTS
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
WATTS
AMPS
PERCENT OF RATED OUTPUT (3 HP)
10/31/2026 ACPERF, record # 115759


36LYA003
614-623 = 15.17
624-634 = 16.54
635-646 = 18.04
.25
2.62
(635-646 ONLY)
GREASE FITTING
(EACH END)
2.75
.25 KEY
1.75 LONG
Ø8.500
8.497
NAMEPLATE
Ø8.60
8.85
Ø1.1250
1.1245
4.27
Ø7.86
6.89
45°
45°
6.17
LEAD HOLE
Ø1.09
4 HOLES
.50-13 TAP ON
Ø7.25 B.C.
5.76
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD INOPC CREATED SWD DRG INTO BUS - PACKAGE 37
REV: M
VERSION: 05
REVISED: 04:57:44 09/18/2019
TDR: 000001120280
MODEL NO. 36LYA003
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
STD VERT FACE MTD 182-4TC TEFC 36M
36LYA003

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