ABB BALDOR RELIANCE

Customer information packet

EMVM3615C

3.7KW, 1750RPM, 3PH, 60HZ, D112MC, 3642M, TEFC
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D112MC
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	3.700 KW @ 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	CSA EEV
	CE
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	13.400 A @ 230.0 V
	13.900 A @ 208.0 V
	6.700 A @ 460.0 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
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	J
Type	AC
Mech. spec.	36H178
Base	
Status	PRD/A
Elec. spec.	36WGS268
Layout	36LYH178
Eff. date	08-04-2025
CD Diagram	CD0005
Poles	04
Leads	9#16
Proprietary	False
Created date	05-08-2015

Heater Indicator	No Heater
High Voltage Full Load Amps	6.7 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	J
Lifting Lugs	No Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 16 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	3642M
Mounting Arrangement	B14
Number of Poles	4
Overall Length	17.39 IN
Power Factor	78
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.103 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1750 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

NP2672L							
CAT.NO.	EMVM3615C						
SPEC.	36H178S268G1						
IEC FRAME	D112MC	**KW**	3.7				
VOLTS	230/460						
AMP	13.4/6.7						
RPM	1750	**ENCL**	TEFC				
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.15	**DES**	B	**CODE**	J		
NEMA-NOM-EFF	89.5	**I.P.**	54				
RATING	40C AMB-CONT						
CC	010A	**USABLE AT 208V**	N/A				
DE	6206	**ODE**	6205				
SER. #							

Parts List

Part number	Description	Quantity
SA301018	SA 36H178S268G1	1.000 ea
RA288087	RA 36H178S268G1	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
36EP1301A55	SPL PU ENDPLATE D110C-D112C W/SEAL	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW4600H12	SEAL 1.156 X 1.874 X 0.250 SINGLE LIP DB	1.000 ea
10XN2520A24	1/4-20X 1 1/2 HEX HD X	4.000 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
HW2505A14	KEY, 8 X 7 MM 1.50 INCHES	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.022 ga
HA3101A28	THRUBOLT 1/4-20 X 12.500 OHIO ROD	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2672L	SS SUPER-E IEC UL CSA PREM CC	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
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

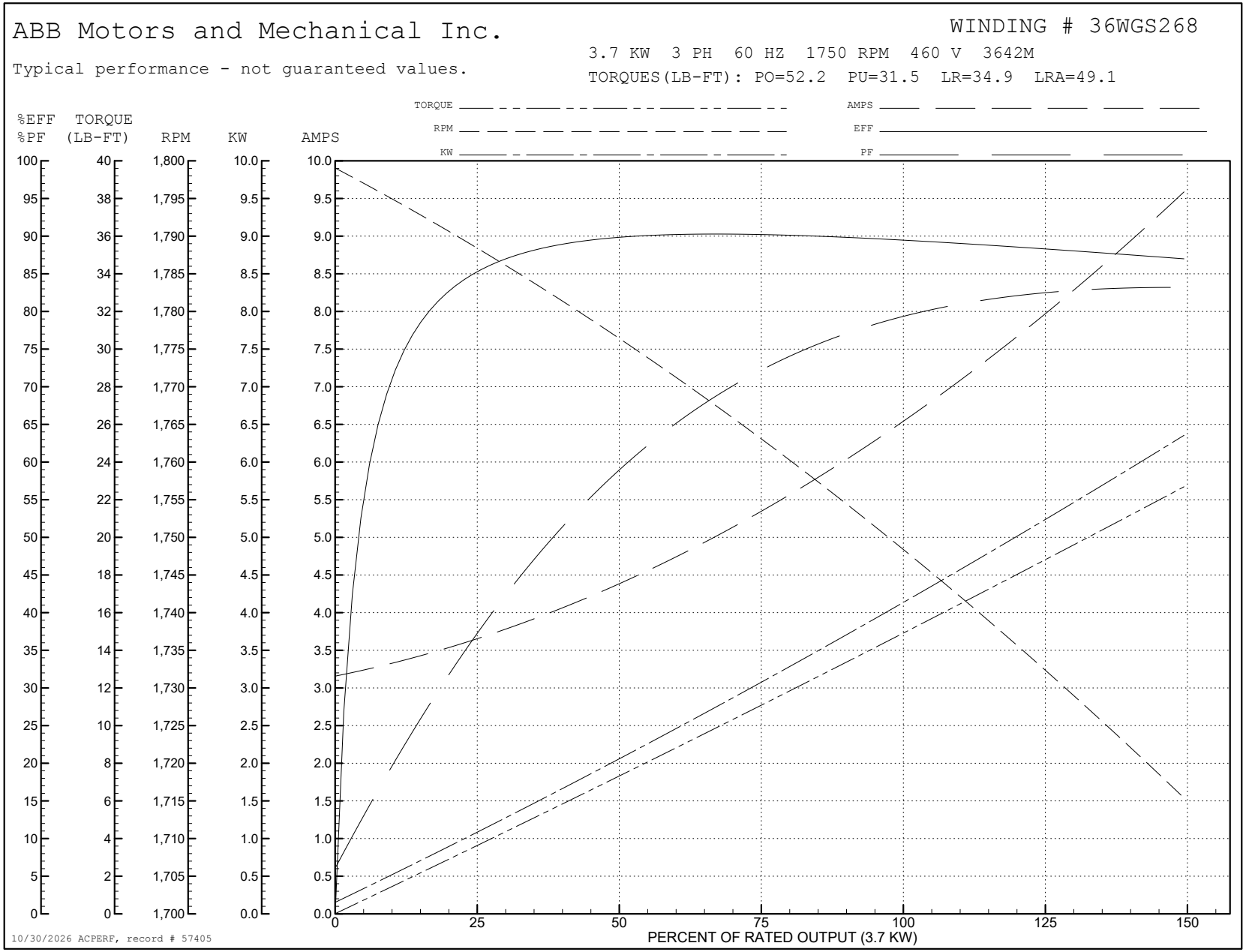
AC Induction Motor Performance Data
Record # 57405
Typical performance - not guaranteed values

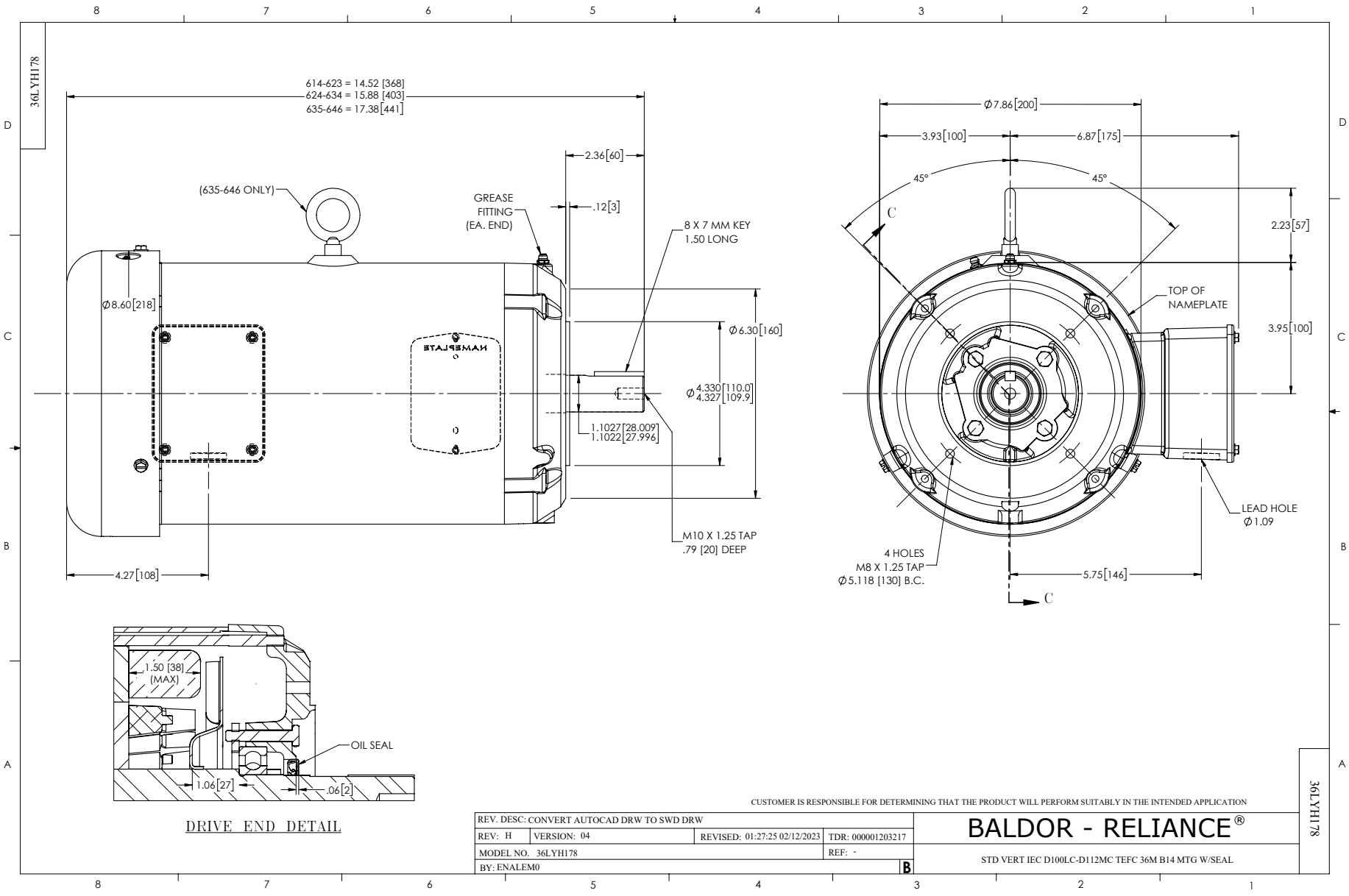
Winding: 36WGS268-R075	**Type:** 3642M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (KW)			3.7	**Full Load Torque**	14.8 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			13.4/6.7	**Breakdown Torque**	52.2 LB-FT
R.P.M.			1750	**Pull-up Torque**	31.5 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	34.9 LB-FT
NEMA Design Code	B	**KVA Code**	J	**Starting Current**	49.1 A
Service Factor (S.F.)			1.15	**No-load Current**	3.24 A
NEMA Nom. Eff.	89.5	**Power Factor**	78	**Line-line Res. @ 25ºC**	2.27 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	70°C
S.F. Amps				**Temp. Rise @ S.F. Load**	85°C
				Locked-rotor Power Factor	39.8
				Rotor inertia	0.391 LB-FT2

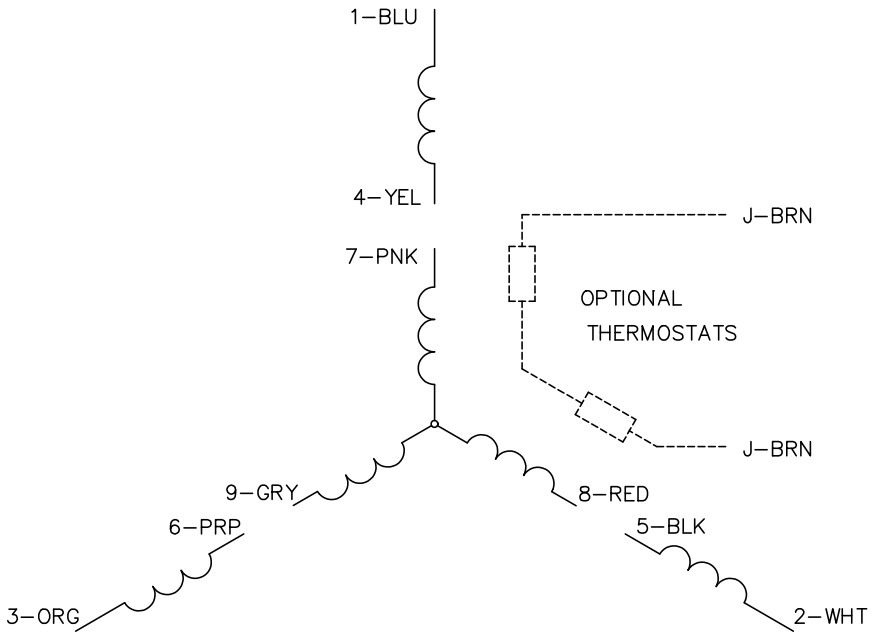
Load Characteristics 460 V, 60 Hz, 3.7 KW

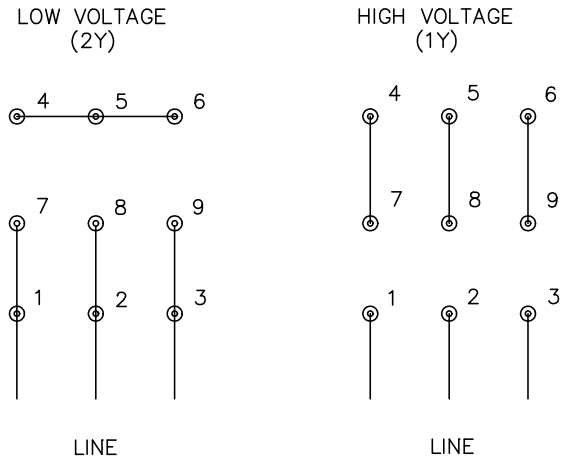
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	39	60	71	78	83	83	81
Efficiency	85	89.7	90.3	89.7	88.4	87	89
Speed	1789	1776	1762	1750	1733	1715	1740
Line amperes	3.55	4.29	5.41	6.62	7.88	9.57	7.42


ABB Motors and Mechanical Inc.
WINDING # 36WGS268
3.7 KW 3 PH 60 HZ 1750 RPM 460 V 3642M
Typical performance - not guaranteed values.
TORQUES(LB-FT): PO=52.2 PU=31.5 LR=34.9 LRA=49.1
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF
%PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (3.7 KW)
10/30/2026 ACPERF, record # 57405


36LYH178
614-623 = 14.52 [368]
624-634 = 15.88 [403]
635-646 = 17.38[441]
2.36[60]
(635-646 ONLY)
GREASE FITTING (EA. END)
.12[3]
8 X 7 MM KEY 1.50 LONG
Ø8.60[218]
Ø6.30[160]
Ø 4.330[110.0] 4.327[109.9]
1.1027[28.009] 1.1022[27.996]
M10 X 1.25 TAP .79 [20] DEEP
4.27[108]
Ø7.86[200]
3.93[100]
6.87[175]
45°
45°
2.23[57]
TOP OF NAMEPLATE
3.95[100]
LEAD HOLE Ø1.09
4 HOLES M8 X 1.25 TAP Ø5.118 [130] B.C.
5.75[146]
1.50 [38] (MAX)
OIL SEAL
1.06[27]
.06[2]
DRIVE END DETAIL
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT AUTOCAD DRW TO SWD DRW
REV: H VERSION: 04 REVISED: 01:27:25 02/12/2023 TDR: 000001203217
MODEL NO. 36LYH178 REF: -
BY: ENALEM0 B
BALDOR - RELIANCE®
STD VERT IEC D100LC-D112MC TEFC 36M B14 MTG W/SEAL
36LYH178

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