ABB BALDOR RELIANCE

Customer information packet

VEM3711T

10HP, 3490RPM, 3PH, 60HZ, 215TC, 3728M, TEFC, F
Class - None
Division - Not Applicable

Copyright © All product information within this document is subject to ABB Motors and Mechanical Inc. copyright © protection, unless otherwise noted.
10/31/2026 1:53:47 PM

Specifications

Enclosure	TEFC
Frame	215TC
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	10.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	NEMA PREMIUM
	CURUSEEV
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	12.000 A @ 460.0 V
	24.100 A @ 230.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	90.2 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	12.0 a
Insulation Class	F

Part Detail

Revision	-
Type	AC
Mech. spec.	37H329
Base	
Status	PRD/A
Elec. spec.	37WGZ712
Layout	37LYH329
Eff. date	03-25-2026
CD Diagram	CD0005
Poles	02
Leads	9#14
Proprietary	False
Created date	03-24-2026

Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 14 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3728M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	18.63 IN
Power Factor	85
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	1.375 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3490 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.	VEM3711T								
SPEC	37H329Z712								
HP	10								
VOLTS	230/460								
AMPS	24.1/12								
RPM	3490								
FRAME	215TC	**HZ**	60		**PH**	3			
SF	1.15	**CODE**	G	**DES**	B	**CLASS**	F		
NEMA NOM. EFF	90.2	**PF**	85						
RATING	40C AMB-CONT								
CC									
ENCL	TEFC	**SER**							
DE	6307	**ODE**	6206						
VPWM INVERTER READY	SFA 27.6/13.8								
CT6-60H(10:1)VT3-60H(20:1									

Parts List

Part number	Description	Quantity
SA446563	SA 37H329Z712	1.000 ea
RA439154	RA 37H329Z712	1.000 ea
36FN3000C02SP	EXFN, PLASTIC, 5.25 OD, 1.175 ID	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
37CB3006	37 CB CASTING W/1.38 LEAD HOLE @ 6:00	1.000 ea
37GS1000SP	GASKET, CONDUIT BOX STD., .06 THICK LEXI	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
37EP3101A01	FR ENDPLATE, FOR ROUTING PURPOSES	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HW5100A06	W2420-025 WVY WSHR (WB)	1.000 ea
37EP3300A01	PUEP ASSEMBLY FOR ROUTING	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
10XN2520A30	HEX HD CAP SCREW-STD THD-.25 X 20 THD PE	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
XY3118A12	5/16-18 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A20	12-14X1.25 HXWSSLD SERTYB	1.000 ea
07FH4007SP	PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
37CB4516	LIPPED LID FOR 37 FRAME NEC KOBX	1.000 ea
37GS1008	37 GS FOR CB LID - LEXIDE	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501F21	KEY, 5/16 SQ X 2.375	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.028 ga
HA3104A14	THRUBOLT- 5/16-18 X12.125(OHIO)	4.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP3441LUA	AL SUPER-E VPWM INV RDY,UL EEV,NEMA PREM	1.000 ea
37PA1074	PALLET PACK GRP, PRINT BOX PK1026A06	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

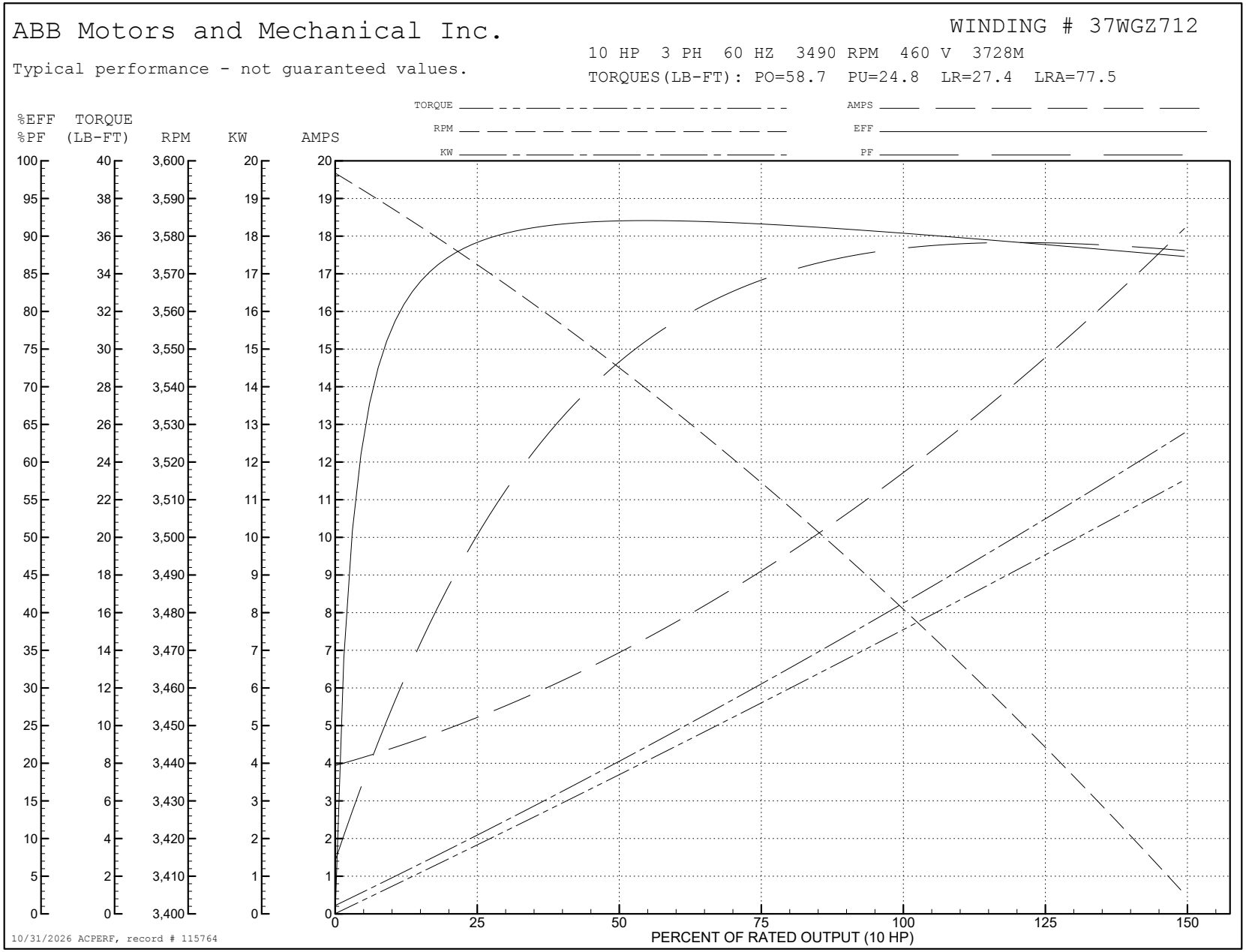
AC Induction Motor Performance Data
Record # 115764
Typical performance - not guaranteed values

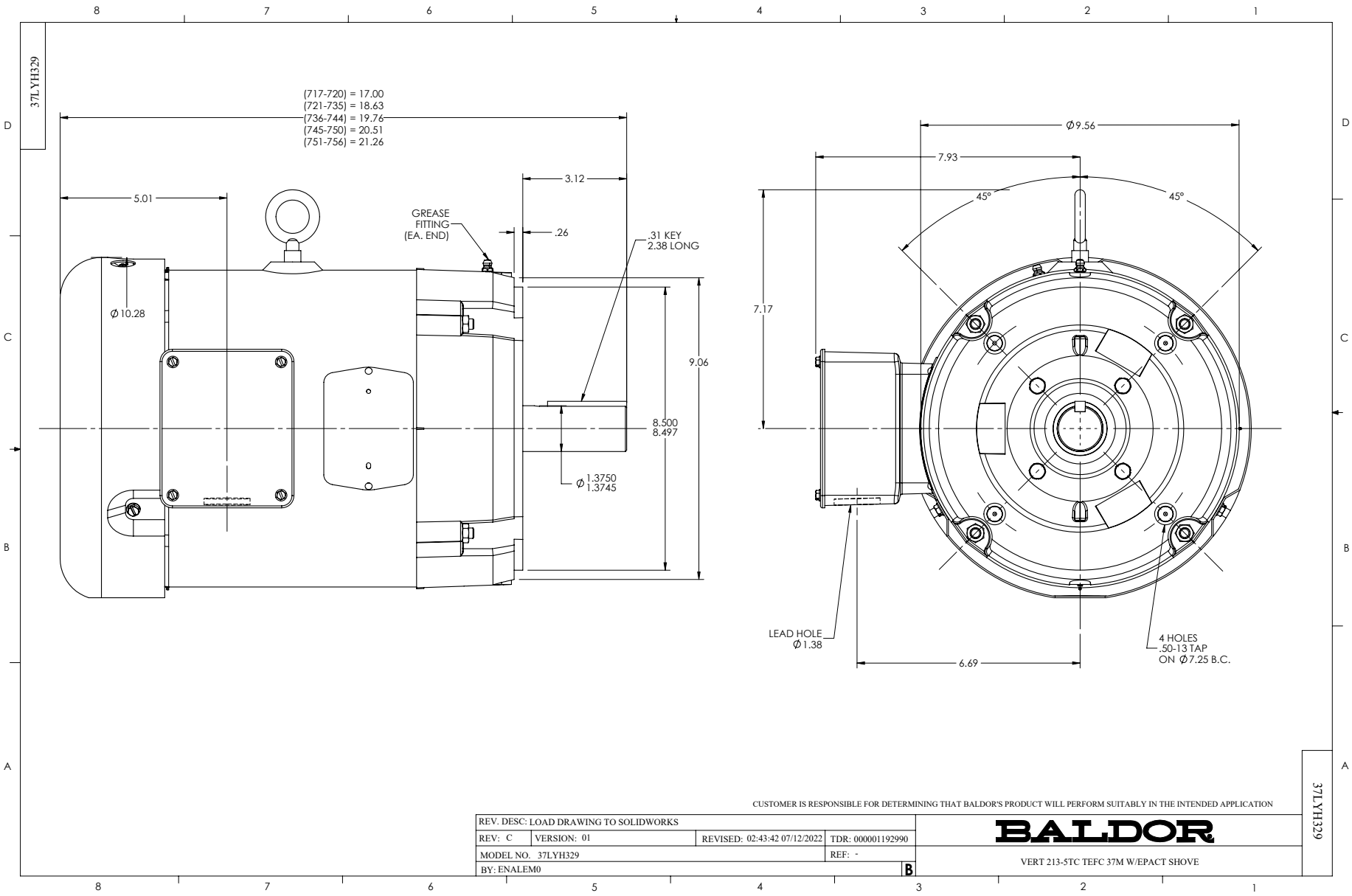
Winding: 37WGZ712-R001	**Type:** 3728M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			10	**Full Load Torque**	15 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			24.1/12	**Breakdown Torque**	58.7 LB-FT
R.P.M.			3490	**Pull-up Torque**	24.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	27.4 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	77.5 A
Service Factor (S.F.)			1.15	**No-load Current**	4.12 A
NEMA Nom. Eff.	90.2	**Power Factor**	85	**Line-line Res. @ 25ºC**	1.0708 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	81°C
S.F. Amps			27.6/13.8	**Temp. Rise @ S.F. Load**	104°C
				Locked-rotor Power Factor	34.2

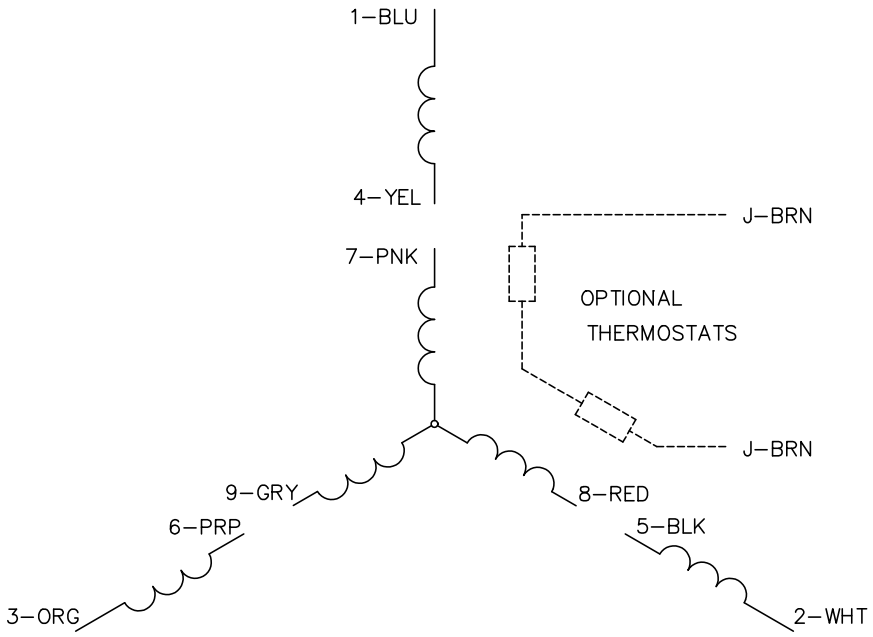
Load Characteristics 460 V, 60 Hz, 10 HP

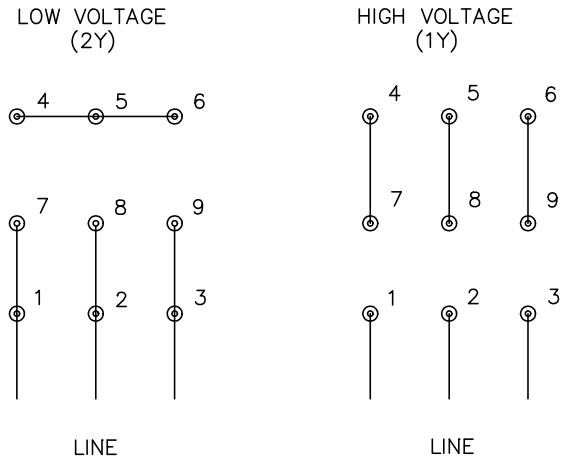
% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	52	75	83	87	88	89	88
Efficiency	88.3	91.6	91.6	90.6	89	87.1	89.6
Speed	3572.3	3544.9	3515.4	3482.5	3445.4	3404.5	3460
Line amperes	4.96	6.75	9.13	11.8	14.8	18.1	13.6


ABB Motors and Mechanical Inc.
WINDING # 37WGZ712
Typical performance - not guaranteed values.
10 HP 3 PH 60 HZ 3490 RPM 460 V 3728M
TORQUES(LB-FT): PO=58.7 PU=24.8 LR=27.4 LRA=77.5
TORQUE
RPM
KW
AMPS
EFF
PF
%EFF %PF
TORQUE (LB-FT)
RPM
KW
AMPS
PERCENT OF RATED OUTPUT (10 HP)
10/31/2026 ACPERF, record # 115764


37LYH329
(717-720) = 17.00
(721-735) = 18.63
(736-744) = 19.76
(745-750) = 20.51
(751-756) = 21.26
5.01
3.12
.26
GREASE FITTING (EA. END)
.31 KEY 2.38 LONG
Ø10.28
9.06
8.500
8.497
Ø 1.3750
1.3745
Ø9.56
7.93
45°
45°
7.17
LEAD HOLE Ø1.38
6.69
4 HOLES .50-13 TAP ON Ø7.25 B.C.
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: LOAD DRAWING TO SOLIDWORKS
REV: C
VERSION: 01
REVISED: 02:43:42 07/12/2022
TDR: 000001192990
MODEL NO. 37LYH329
REF: -
BY: ENALEM0
B
BALDOR
VERT 213-5TC TEFC 37M W/EPACT SHOVE
37LYH329

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