ABB BALDOR RELIANCE

Customer information packet

EHM2536T

30HP, 1180RPM, 3PH, 60HZ, 326T, 4084M, OPSB, F1

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Specifications

Enclosure	OPSB
Frame	326T
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	30.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	230.0 V @ 60 HZ
	460.0 V @ 60 HZ
Agency Approvals	CSA
	UR
Ambient Temperature	40 °C
Auxiliary Box	NO AUXILLARY BOX
Auxiliary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	38.000 A @ 460.0 V
	76.000 A @ 230.0 V
	80.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	38.0 a
Insulation Class	F
Inverter Code	Inverter Ready

Part Detail

Revision	J
Type	AC
Mech. spec.	40E329
Base	
Status	PRD/A
Elec. spec.	40WGX122
Layout	40LYE329
Eff. date	07-10-2024
CD Diagram	CD0005
Poles	06
Leads	9#8
Proprietary	False
Created date	10-21-2013

KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 8 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4084M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	28.69 IN
Power Factor	79
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	2.125 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	Mounting Provisions Only
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None
Thermal Device - Winding	None
Vibration Sensor Indicator	No Vibration Sensor

Nameplate

NP2094E06B03												
CAT.NO.	EHM2536T											
SPEC.	40E329X122G1											
HP	30											
VOLTS	230/460											
AMPS	78/39											
RPM	1180											
FRAME	326T		**HZ**	60			**PH**	3				
SER.F.	1.15	**CODE**	H	**DES**	A	**CL**	F					
NEMA-NOM-EFF	93.6	**PF**	77									
RATING	40C AMB-CONT											
CC	010A			**USABLE AT 208V**			N/A					
DE	6312		**ODE**	6309								
AUTO		**MANUAL**				**NONE**						
ENCL	OPSB	**SN**										
BLANK												

Parts List

Part number	Description	Quantity
SA271174	SA 40E329X122G1	1.000 ea
RA257804	RA 40E329X122G1	1.000 ea
HA6361A01	LIFTING LUG FOR 37, 39 & 40 FRAME ZINC	2.000 ea
HA6017	CAST ADAPTER, 40,42 KOBX	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	2.000 ea
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
40EP3200A02	STD FREP OPEN 309 BRG	1.000 ea
HW5100A11	W3917-042 WVY WSHR (WB)	1.000 ea
40EP3201A09	PU ENDPLATE, MACH - OPEN - FOR 312 BRG	1.000 ea
84XN0632J08	#6-32 X .50 SOCK HD, BK OX	2.000 ea
84XN0540J08	5-40 X 1/2" SHCS, BLACK OXIDE	2.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	8.000 ea
10CB3500	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW2501H33	KEY, 1/2 SQ X 3.875	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.030 ga
HA3159A12	THRUBOLT.38-16 X 21.50 LG, SEE ADD. DATA	4.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
40AD2002A01	LEXAN BAFFLE 40 FR OPEN	1.000 ea
LC0005	CONN.DIA.,TY M,9-LD,DUAL VOLT,REVERSING	1.000 ea
NP2094E06B03	NP LABEL W/BARCODE (PREM EFF HVAC MTR)	1.000 ea
40PA1000	PACKAGING GROUP	1.000 ea

FE-0000022	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 66226
Typical performance - not guaranteed values

Winding: 40WGX122-R001 **Type:** 4084M **Enclosure:** OPSB

Nameplate Data			
Rated Output (HP)			30
Volts			230/460
Full Load Amps			78/39
R.P.M.			1180
Hz	60	**Phase**	3
NEMA Design Code	A	**KVA Code**	H
Service Factor (S.F.)			1.15
NEMA Nom. Eff.	93.6	**Power Factor**	77
Rating - Duty			40C AMB-CONT
S.F. Amps			

460 V, 60 Hz: High Voltage Connection	
Full Load Torque	133.3 LB-FT
Start Configuration	direct on line
Breakdown Torque	417 LB-FT
Pull-up Torque	187 LB-FT
Locked-rotor Torque	233 LB-FT
Starting Current	267 A
No-load Current	18.1 A
Line-line Res. @ 25ºC	0.2452 Ω
Temp. Rise @ Rated Load	40°C
Temp. Rise @ S.F. Load	49°C
Locked-rotor Power Factor	28.6

Load Characteristics 460 V, 60 Hz, 30 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	39	60	72	77	80	81	79
Efficiency	89.6	93.2	93.8	93.6	92.9	92.1	93.2
Speed	1196.1	1192.3	1188.4	1184.2	1179.4	1174.2	1181
Line amperes	20.2	25	31.5	39	47.4	56.7	44

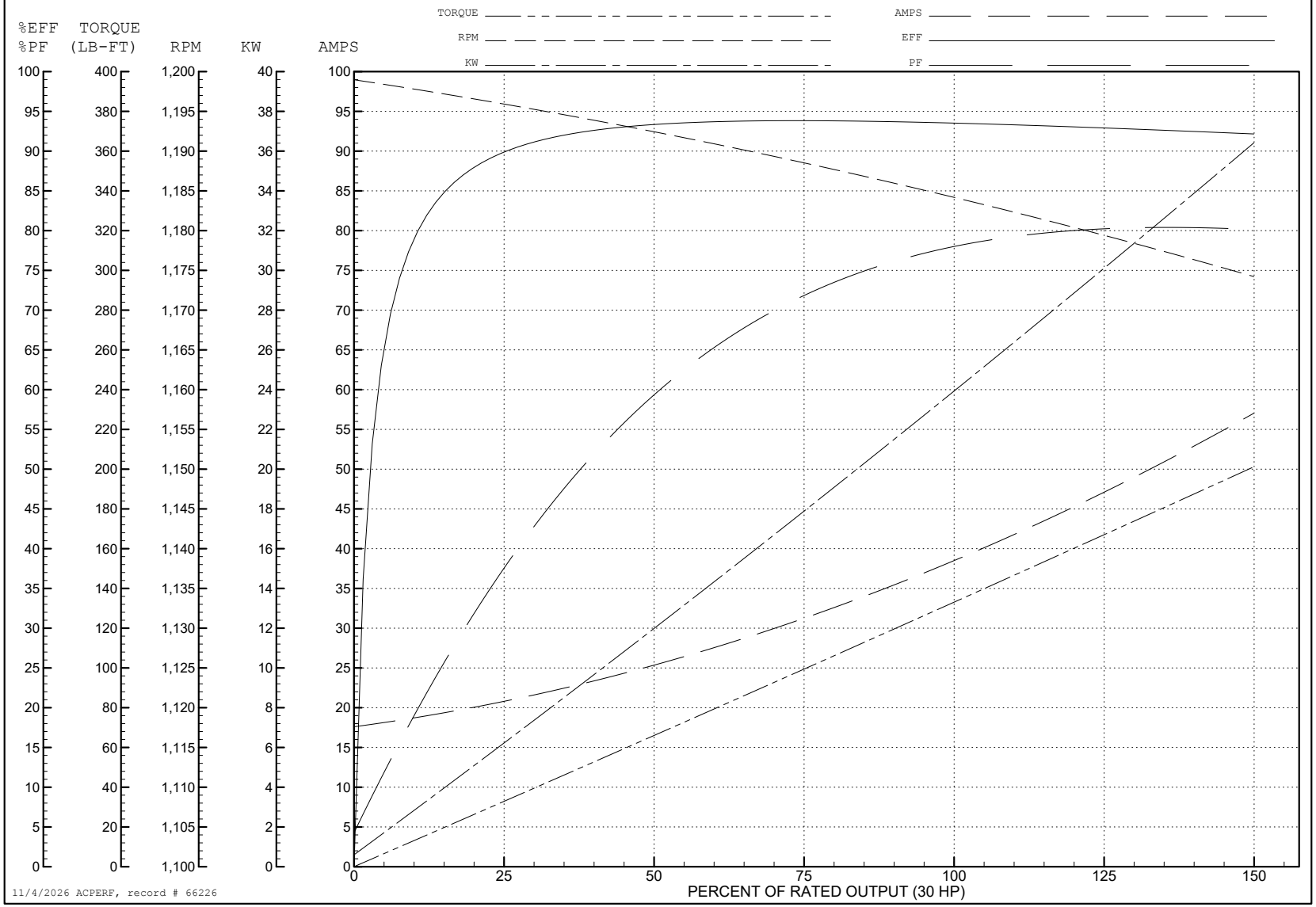
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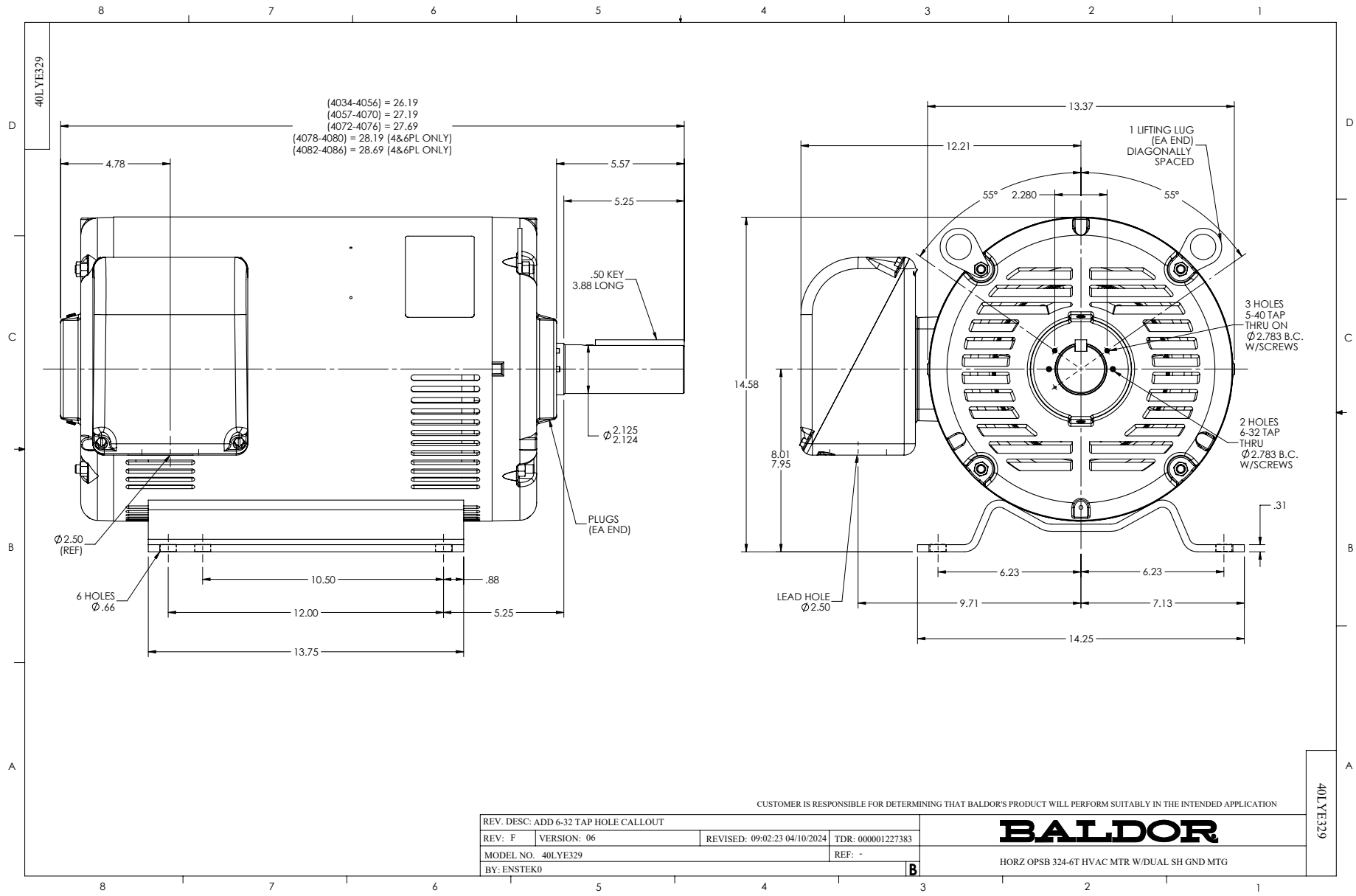
WINDING # 40WGX122

30 HP 3 PH 60 HZ 1180 RPM 460 V 4084M

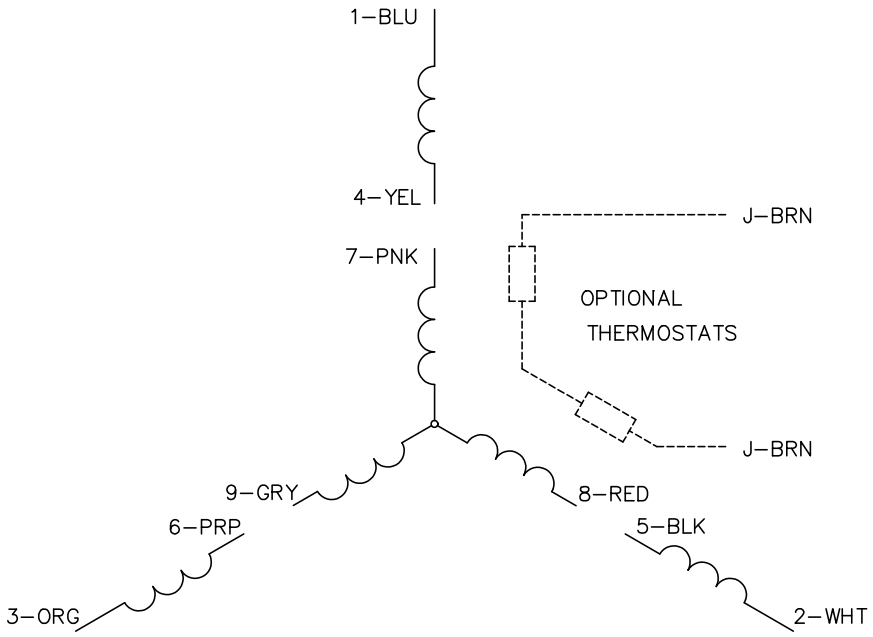
Typical performance - not guaranteed values.

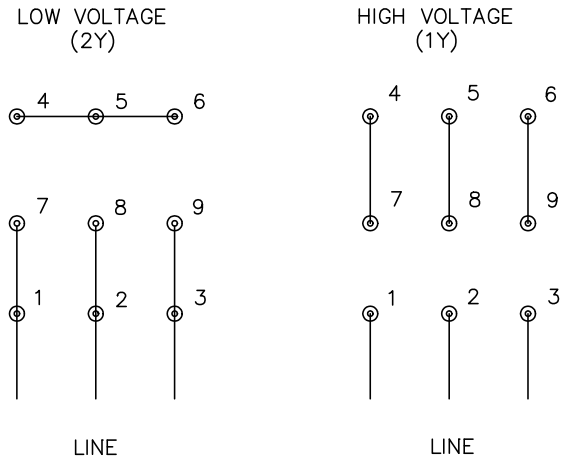
TORQUES(LB-FT): PO=417 PU=187 LR=233 LRA=267




40LYE329
(4034-4056) = 26.19
(4057-4070) = 27.19
(4072-4076) = 27.69
(4078-4080) = 28.19 (4&6PL ONLY)
(4082-4086) = 28.69 (4&6PL ONLY)
4.78
5.57
5.25
.50 KEY
3.88 LONG
Ø2.125
2.124
PLUGS
(EA END)
Ø2.50
(REF)
6 HOLES
Ø.66
10.50
.88
12.00
5.25
13.75
13.37
12.21
1 LIFTING LUG
(EA END)
DIAGONALLY
SPACED
55°
2.280
55°
3 HOLES
5-40 TAP
THRU ON
Ø2.783 B.C.
W/SCREWS
14.58
8.01
7.95
2 HOLES
6-32 TAP
THRU
Ø2.783 B.C.
W/SCREWS
.31
LEAD HOLE
Ø2.50
6.23
6.23
9.71
7.13
14.25
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: F
VERSION: 06
REVISED: 09:02:23 04/10/2024
TDR: 000001227383
MODEL NO. 40LYE329
REF: -
BY: ENSTEK0
B
BALDOR
HORZ OPSB 324-6T HVAC MTR W/DUAL SH GND MTG
40LYE329

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