ABB BALDOR RELIANCE

Customer information packet

EJMM2546T

60HP, 3540RPM, 3PH, 60HZ, 326JM, 4250M, OPSB, F

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Specifications

Enclosure	OPSB
Frame	326JM
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	60.000 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	CSA
	CSA EEV
	NEMA PREMIUM
	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	136.000 A @ 230.0 V
	68.000 A @ 460.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.6 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Face Code	Standard
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	68.0 a

Part Detail

Revision	L
Type	AC
Mech. spec.	42F59
Base	
Status	PRD/A
Elec. spec.	42WGW410
Layout	42LYF059
Eff. date	11-06-2025
CD Diagram	CD0180
Poles	02
Leads	9#6
Proprietary	False
Created date	06-05-2015

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 6 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4250M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.94 IN
Power Factor	89
Product Family	General Purpose
Pulley End Bearing Type	Ball
Pulley Face Code	C-Face
Pulley Shaft Indicator	Tapped & Key
Rodent Screen	Included
Service Factor	1.15
Shaft Diameter	1.250 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	3540 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

NP2138LUA												
CAT.NO.	EJMM2546T			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	42F059W410G4	**CC**	010A		**FRAME**	326JM		**S/N**				
HP	60			**CLASS**	F		**HZ**	60				
RPM	3540			**PH**	3		**DES**	B				
VOLT	230/460				**KVA-CODE**	G		**ODE BRG**	6311	**DE BRG**	6312	
AMP	136/68											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	93.6	**PF**	89	**SER.F.**	1.15							
	50HZ 60HP 190/380V 160/80A							SF1.0				
HTR-VOLTS		**HTR-AMPS**										

Parts List

Part number	Description	Quantity
SA302190	SA 42F059W410G4	1.000 ea
RA289276	RA 42F059W410G4	1.000 ea
HA6360	LIFTING LUG FOR 42 FRAME MOTORS.	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
10CB3001	CONDUIT BOX CAST W/2.500 LEAD HOLE	1.000 ea
19XW3118A12	.31-18 X .75 HEX WASHER HEAD TAPTITE II	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
42EP3200A01	FR ENDPLATE, MACH	1.000 ea
HA1108A01	RODENT SCREEN	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
42EP1300A44	PU ENDPLATE, MACH	1.000 ea
HA1165A01	RODENT SCREEN FOR 42 PU. C-FACE EP (INSI	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	4.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
10CB3500	CONDUIT BOX LID, CAST	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
HW4600B41	V-RING SLINGER 2.125 X 2.880 X 0.280	1.000 ea
HW2501E22	KEY, 1/4 SQ X 2.500	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.080 ga
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
42AD2001C01	BAFFLE PLATE 42 OPEN, SLOTTED BAND MTRS	1.000 ea
HA3151A02	THRUBOLT STUD 1/2-13 X 19.25	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP2138LUA	ALUM SUPER-E UL PREM CC (300SER)	1.000 ea
42PA1000	PACKAGING GROUP PRINT PK1024A08	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

AC Induction Motor Performance Data
Record # 33331
Typical performance - not guaranteed values

Winding: 42WGW410-R001	**Type:** 4250M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			60	**Full Load Torque**	88.9 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			136/68	**Breakdown Torque**	304 LB-FT
R.P.M.			3540	**Pull-up Torque**	91.4 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	128 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	443 A
Service Factor (S.F.)			1.15	**No-load Current**	17.7 A
NEMA Nom. Eff.	93.6	**Power Factor**	89	**Line-line Res. @ 25ºC**	0.09668 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	35°C
S.F. Amps				**Temp. Rise @ S.F. Load**	43°C

Load Characteristics 460 V, 60 Hz, 60 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	65	82	88	90	90	89	90
Efficiency	90.7	93.7	94.2	93.9	93.3	92.5	93.5
Speed	3585.3	3574.5	3562.4	3549.9	3535.7	3520.5	3541
Line amperes	24.4	36.9	51.5	66.9	83.7	102	77

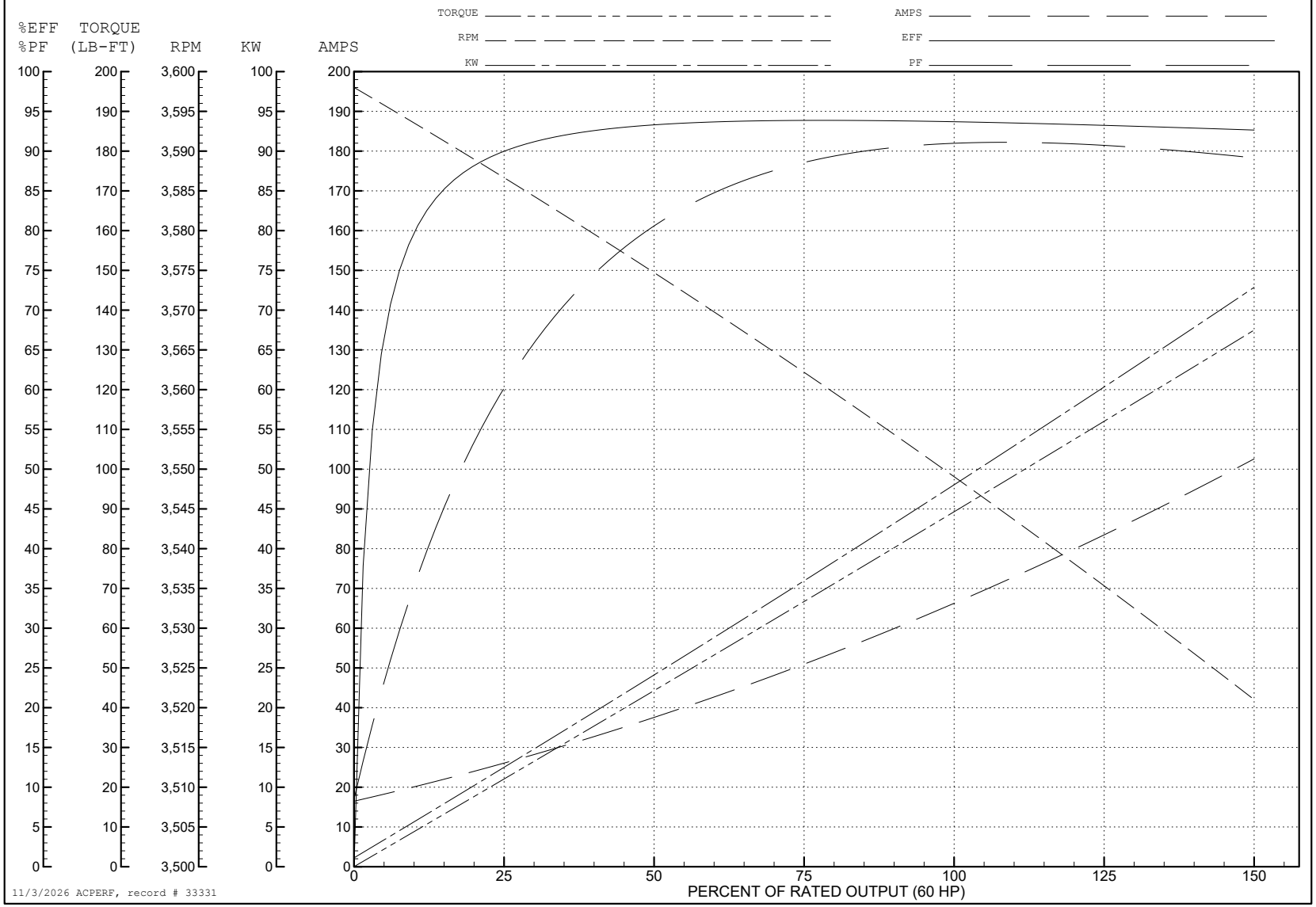
ABB Motors and Mechanical Inc.

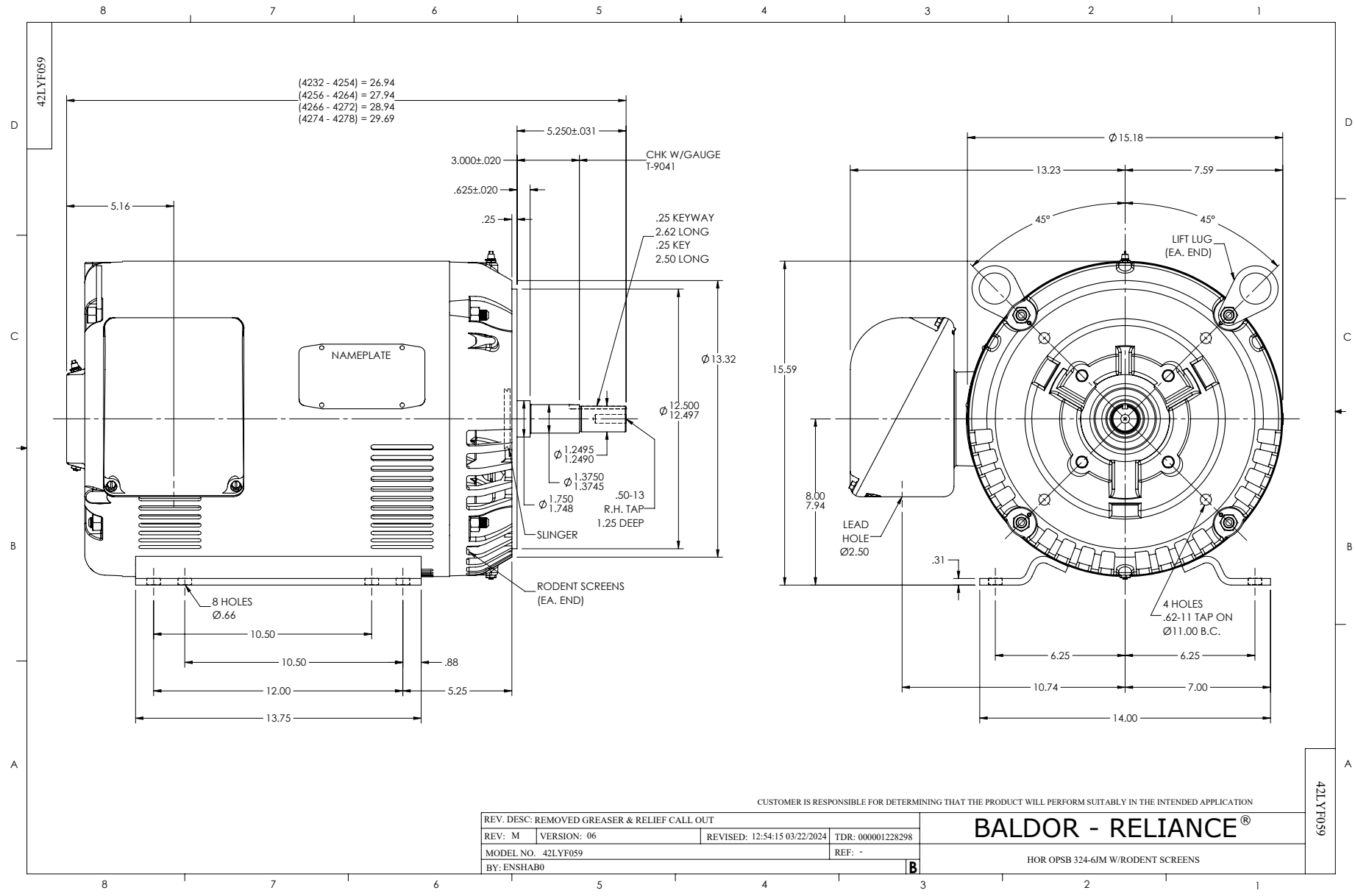
WINDING # 42WGW410

60 HP 3 PH 60 HZ 3540 RPM 460 V 4250M

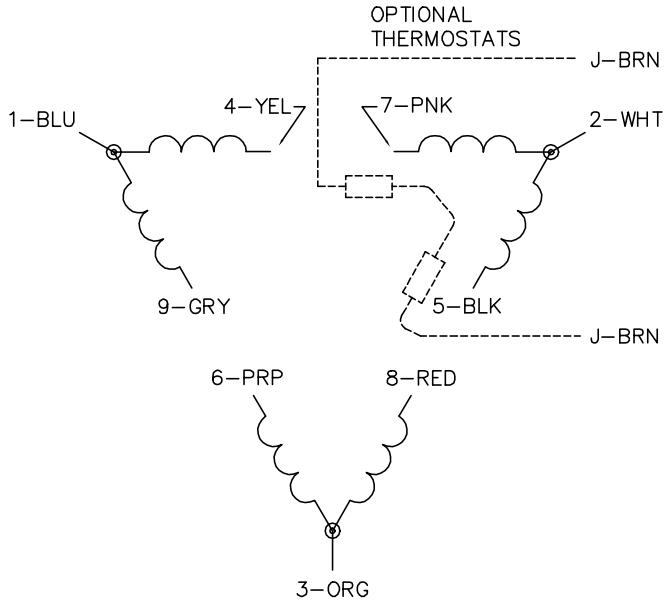
Typical performance - not guaranteed values.

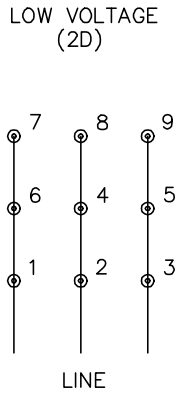
TORQUES(LB-FT): PO=304 PU=91.4 LR=128 LRA=443

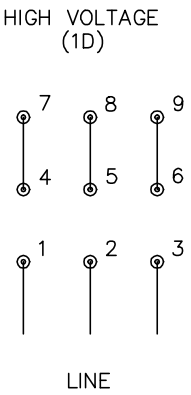



42LYF059
(4232 - 4254) = 26.94
(4256 - 4264) = 27.94
(4266 - 4272) = 28.94
(4274 - 4278) = 29.69
5.250±.031
3.000±.020
CHK W/GAUGE T-9041
.625±.020
.25
.25 KEYWAY
2.62 LONG
.25 KEY
2.50 LONG
5.16
NAMEPLATE
Ø13.32
Ø12.500
12.497
Ø1.2495
1.2490
Ø1.3750
1.3745
Ø1.750
1.748
.50-13
R.H. TAP
1.25 DEEP
SLINGER
RODENT SCREENS
(EA. END)
8 HOLES
Ø.66
10.50
10.50
.88
12.00
5.25
13.75
Ø15.18
13.23
7.59
45°
45°
LIFT LUG
(EA. END)
15.59
8.00
7.94
LEAD
HOLE
Ø2.50
.31
4 HOLES
.62-11 TAP ON
Ø11.00 B.C.
6.25
6.25
10.74
7.00
14.00
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: REMOVED GREASER & RELIEF CALL OUT
REV: M
VERSION: 06
REVISED: 12:54:15 03/22/2024
TDR: 000001228298
MODEL NO. 42LYF059
REF: -
BY: ENSHAB0
B
BALDOR - RELIANCE®
HOR OPSB 324-6JM W/RODENT SCREENS
42LYF059

CD0180







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.

CD0180

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: D	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\148	REVISED: 10:25:29 02/19/2019	BY: ENBRIR0
MTL: –		

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3PH, DV, 9 LEADS, DELTA CONNECTION

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