BALDOR • RELIANCE

Customer information packet

EHM3558T

2HP, 1760RPM, 3PH, 60HZ, 145T, 3528M, TEFC, F1
Class - None
Division - Not Applicable

4/1/2025 9:09:41 PM

Specifications

Enclosure	TEFC
Frame	145T
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	2.000 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	CSA
	UR
Ambient Temperature	40 °C
Auxillary Box	No Auxillary Box
Auxillary Box Lead Termination	None
Base Indicator	Rigid
Bearing Grease Type	Polyrex EM (-20F +300F)
Blower	None
Current @ Voltage	2.800 A @ 460.0 V
	5.600 A @ 230.0 V
	5.800 A @ 208.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	86.5 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
High Voltage Full Load Amps	2.8 a

Part detail

Revision	C
Type	AC
Mech. spec.	35Z141
Base	
Status	PRD/A
Elec. spec.	35WGG073
Layout	35LYZ141
Eff. date	06-06-2024
CD Diagram	CD0005
Poles	04
Leads	9#18
Proprietary	False
Created date	03-11-2022

Insulation Class	F
Inverter Code	Inverter Ready
KVA Code	K
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	No Locked Bearing
Motor Lead Quantity/Wire Size	9 @ 18 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	3528M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	13.29 IN
Power Factor	77
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	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1760 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

NP2094E06B03									
CAT.NO.	EHM3558T								
SPEC.	35Z141G073G1								
HP	2								
VOLTS	230/460								
AMPS	5.6/2.8								
RPM	1760								
FRAME	145T	**HZ**	60	**PH**	3				
SER.F.	1.15	**CODE**	K	**DES**	B	**CL**	F		
NEMA-NOM-EFF	86.5	**PF**	77						
RATING	40C AMB-CONT								
CC	010A	**USABLE AT 208V**	N/A						
DE	6205	**ODE**	6203						
AUTO	N	**MANUAL**	N	**NONE**	Y				
ENCL	TEFC	**SN**							
BLANK	SFA 6.26/3.13								

Parts list

Part number	Description	Quantity
SA408226	SA 35Z141G073G1	1.000 ea
RA399745	RA 35Z141G073G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/	1.000 ea
HW3200A01	3/8-16X3/4 EYEBOLT WELDED F/S	1.000 ea
NS2512A01	INSULATOR, CONDUIT BOX X	1.000 ea
35CB3009	35 CB W/1.09 DIA. LEAD HOLE @ 6:	1.000 ea
36GS1000SP	GASKET-CONDUIT BOX, .06 THICK #SV-330 LE	1.000 ea
51XB1016A07	10-16 X 7/16 HXWSSLD SERTYB	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
35EP3122A00	MASTER ODE,203 BRG,.683SH,#26 DRN,GRSR,F	1.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
HW5100A03	WAVY WASHER (W1543-017)	1.000 ea
35EP3123F02	F00 W/AEGIS SH GND	1.000 ea
91XN0540J08	SCREW, 5-40 X 1/2", FHC, AS	4.000 ea
91XN0632J04	SCREW, 6-32 X 1/4", FHC, AS	2.000 ea
HW4500A19	1/4-28X1/4 SLOTTED PLUG F/S	1.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
35FH4005A84SP	IEC FH W/GRSR, NO DIMPLES PRIMED	1.000 ea
51XW1032A06	10-32 X .38, TAPTITE II, HEX WSHR SLTD S	3.000 ea
35CB4521GX	CONDUIT BOX LID KIT **ORDER INDIV PARTS	1.000 ea
51XW0832A07	8-32 X .44, TAPTITE II, HEX WSHR SLTD SE	4.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
MG1050G01	CELEROL MEDIUM CHARCOAL METALLIC GRAY	0.017 ga
HA3100A18	THRUBOLT 10-32 X 9.250	4.000 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
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea

MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
FE-0000001	ZRTG FE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 87157
Typical performance - not guaranteed values

Winding: 35WGG073-R001	**Type:** 3528M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (HP)			2	**Full Load Torque**	5.99 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			5.6/2.8	**Breakdown Torque**	20.5 LB-FT
R.P.M.			1760	**Pull-up Torque**	13.8 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	15 LB-FT
NEMA Design Code	B	**KVA Code**	K	**Starting Current**	22.5 A
Service Factor (S.F.)			1.15	**No-load Current**	1.62 A
NEMA Nom. Eff.	86.5	**Power Factor**	77	**Line-line Res. @ 25ºC**	9.54 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	64°C
S.F. Amps			6.3/3.15	**Temp. Rise @ S.F. Load**	77°C
				Locked-rotor Power Factor	57.9
				Rotor inertia	0.202 lb-ft²

Load Characteristics 460 V, 60 Hz, 2 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	35	55	68	76	81	84	80
Efficiency	78.3	85.3	86.9	86.5	85.3	83.6	86.1
Speed	1791	1782	1771	1760	1748	1734	1754
Line amperes	1.71	1.97	2.34	2.82	3.36	3.97	3.13

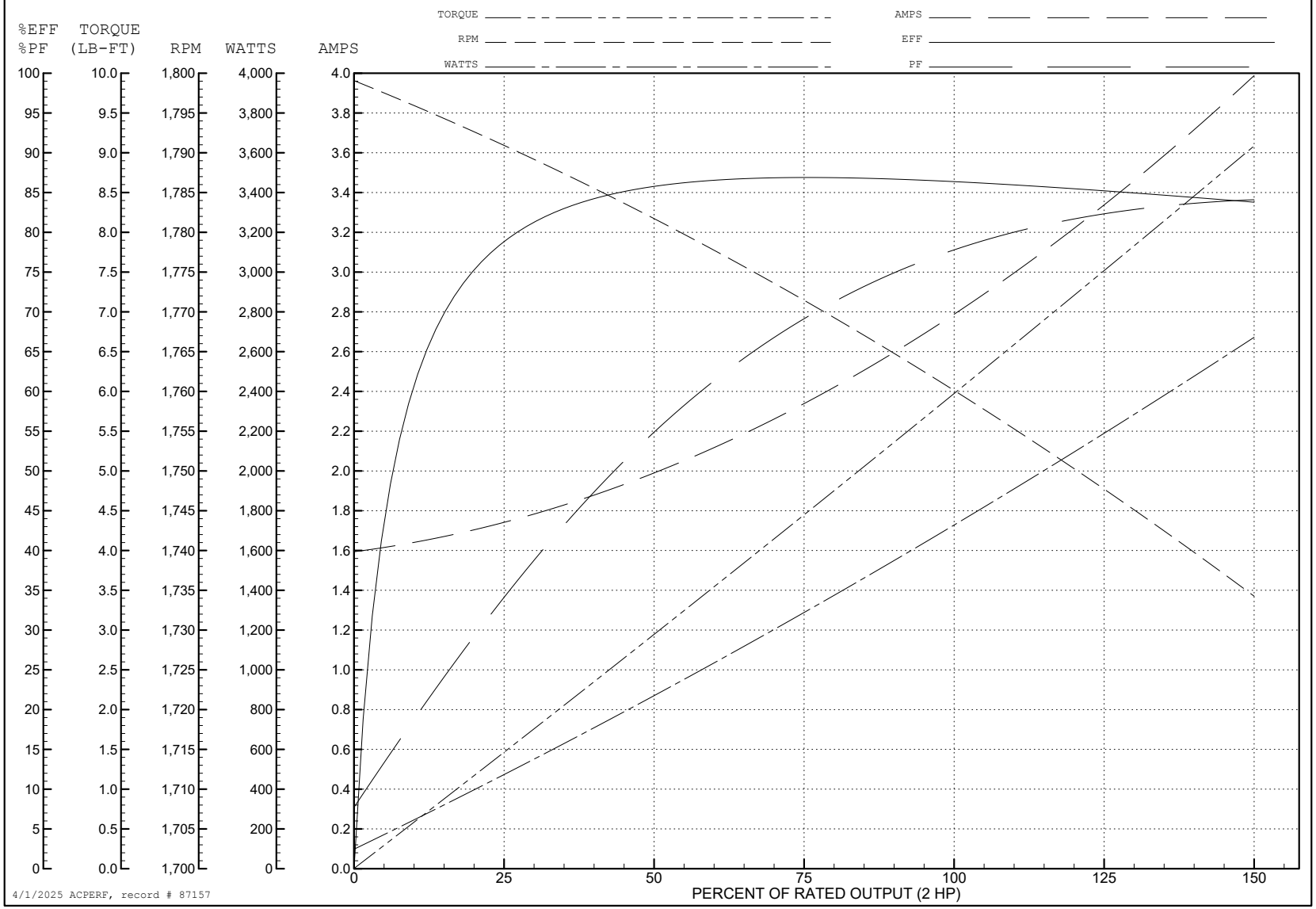
ABB Motors and Mechanical Inc.

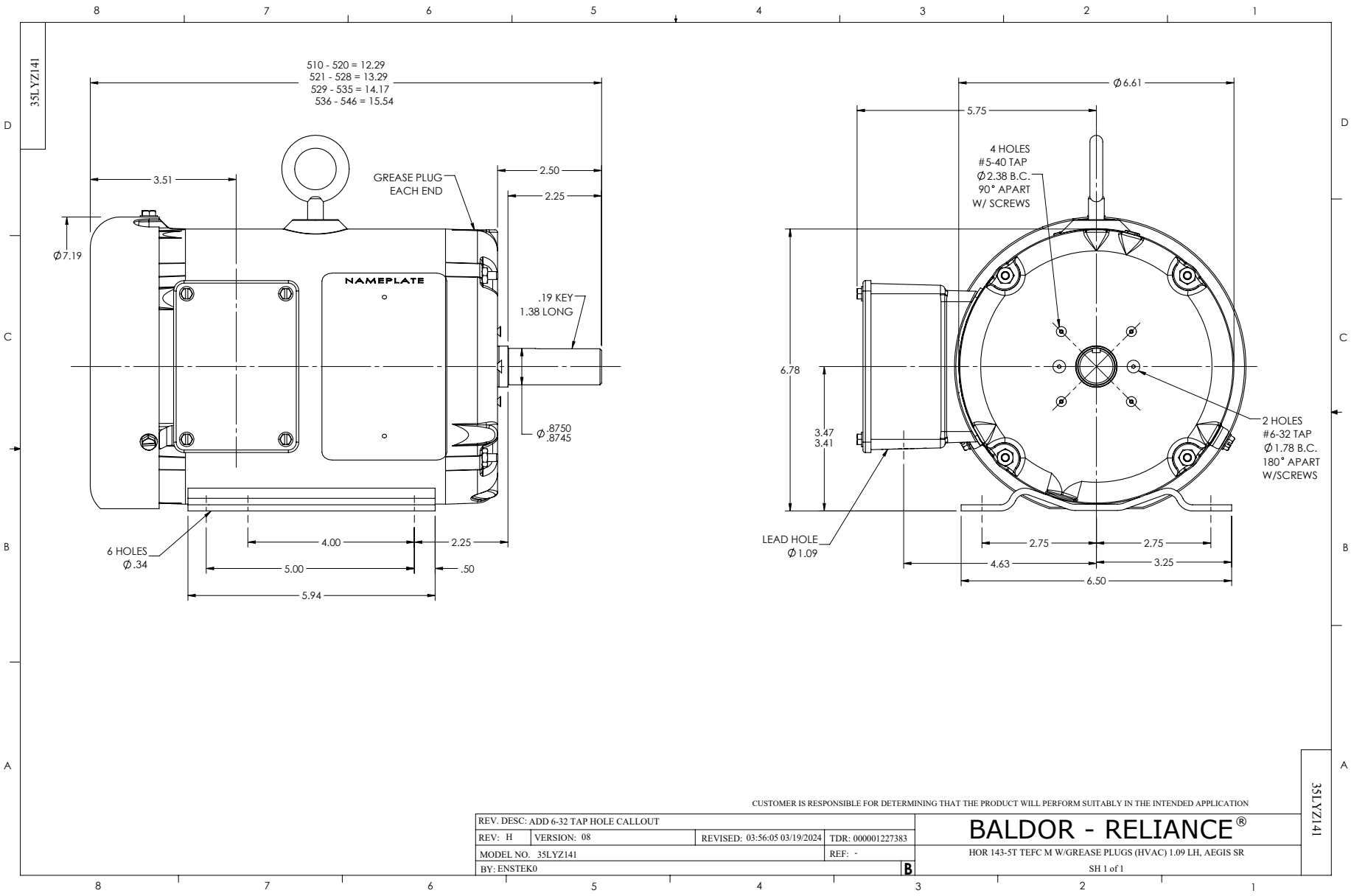
WINDING # 35WGG073

2 HP 3 PH 60 HZ 1760 RPM 460 V 3528M

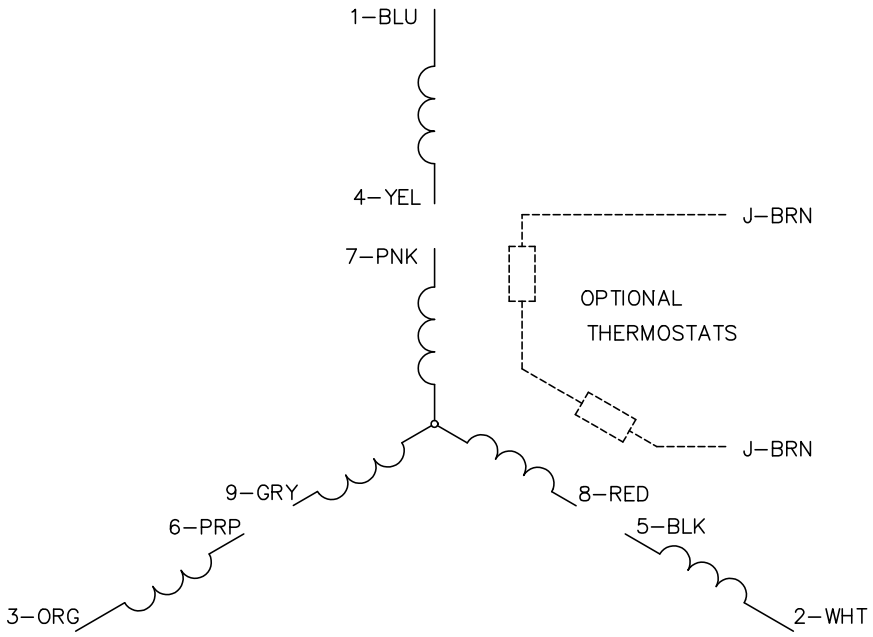
Typical performance - not guaranteed values.

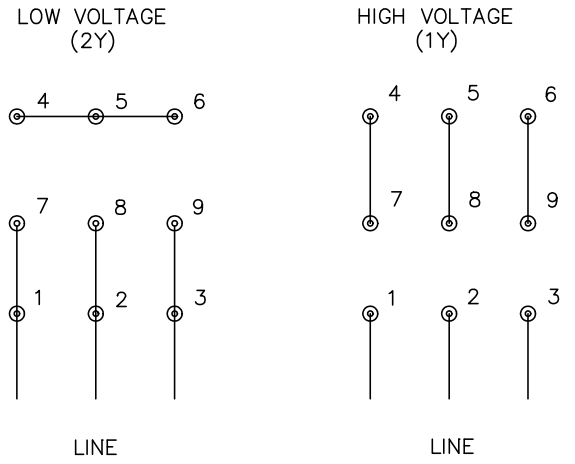
TORQUES(LB-FT): PO=20.5 PU=13.8 LR=15 LRA=22.5




35LYZ141
510 - 520 = 12.29
521 - 528 = 13.29
529 - 535 = 14.17
536 - 546 = 15.54
3.51
GREASE PLUG
EACH END
2.50
2.25
Ø7.19
NAMEPLATE
.19 KEY
1.38 LONG
Ø .8750
Ø .8745
6 HOLES
Ø .34
4.00
2.25
5.00
.50
5.94
Ø6.61
5.75
4 HOLES
#5-40 TAP
Ø2.38 B.C.
90° APART
W/ SCREWS
6.78
3.47
3.41
2 HOLES
#6-32 TAP
Ø1.78 B.C.
180° APART
W/SCREWS
LEAD HOLE
Ø1.09
2.75
2.75
4.63
3.25
6.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: ADD 6-32 TAP HOLE CALLOUT
REV: H
VERSION: 08
REVISED: 03:56:05 03/19/2024
TDR: 000001227383
MODEL NO. 35LYZ141
REF: -
BY: ENSTEK0
B
BALDOR - RELIANCE®
HOR 143-5T TEFC M W/GREASE PLUGS (HVAC) 1.09 LH, AEGIS SR
SH 1 of 1
35LYZ141

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