ABB BALDOR RELIANCE

Customer information packet

EMM2334

15KW, 1770RPM, 3PH, 60HZ, D160L, 0960M, TEFC, F
Class - None
Division - Not Applicable

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Specifications

Enclosure	TEFC
Frame	D160L
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	None
Haz Area Division	Not Applicable
Motor Letter Type	Three Phase
Output @ Frequency	15.000 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	UR
	CSA
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	25.000 A @ 460.0 V
	50.000 A @ 230.0 V
	52.000 A @ 208.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Frame Prefix	D
Front Face Code	Standard
Front Shaft Indicator	None

Part Detail

Revision	AC
Type	AC
Mech. spec.	09E142
Base	
Status	PRD/A
Elec. spec.	09WGZ571
Layout	09LYE142
Eff. date	10-07-2025
CD Diagram	CD0180
Poles	04
Leads	9#10
Proprietary	False
Created date	03-22-2010

Heater Indicator	No Heater
High Voltage Full Load Amps	25.0 a
Insulation Class	F
Inverter Code	Not Inverter
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	IEC
Motor Type	0960M
Mounting Arrangement	B3
Number of Poles	4
Overall Length	23.63 IN
Power Factor	81
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	1.654 IN
Shaft Extension Location	Pulley End
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1770 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

NP1159L							
CAT.NO.	EMM2334						
SPEC.	09E142Z571G1						
IEC FRAME	D160L	**KW**	15				
VOLTS	230/460						
AMP	50/25						
RPM	1770	**ENCL**	TEFC				
HZ	60	**PH**	3	**CL**	F		
SER.F.	1.15	**DES**	A	**CODE**	H		
NEMA-NOM-EFF	93	**I.P.**	54				
RATING	40C AMB-CONT						
CC	010A						
DE	6309	**ODE**	6208				
SER. #							

Parts List

Part number	Description	Quantity
SA192530	SA 09E142Z571G1	1.000 ea
RA180170	RA 09E142Z571G1	1.000 ea
09FN3001D01SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRLCKWASHER	1.000 ea
09CB3003	CB W/1.75" DIA LD HL - 37, 39, 307 & 309	1.000 ea
09GS1000	GASKET-CONDUIT BOX, 1/16 THICK LEXIDE	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	4.000 ea
09EP1100A14	FREP ASSM, (FOR INTRL ROUTING PURPOSE)	1.000 ea
HA3400A33	STUD- 3/8-16 X 4.96 HEX	4.000 ea
XY3816A12	3/8-16 FINISHED NUT W/SERRATIONS	4.000 ea
09CB3501SP	CONDUIT BOX LID FOR 09CB3001 & 09CB3002	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW5100A08	W3118-035 WVY WSHR (WB)	1.000 ea
10XN2520K28	1/4-20 X 1.75" HX HD SCRWGRADE 5, ZINC P	2.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
59XW2520G07	.25-20X.44,HEX SER WSHR,TAPTITE 2,GREEN	1.000 ea
09EP1101A11SP	PU ENDPLATE, MACH	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW4600B44	V-RING SLINGER 1.500 X 1.810 X .28 VITON	1.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
09FH4000SP	309 FH - BLACK PRIMER	1.000 ea
HA2081A05	SPACER TUBE, 309 FAN HSG, 2.00 LONG	4.000 ea
09GS1013SP	GS FOR 09CB3501, 12CB1500 & 12CB1503 LID	1.000 ea
51XW2520A12	.25-20 X .75, TAPTITE II, HEX WSHR SLTD	2.000 ea
HW2505C27	KEY 8 X 12 MM X 3.125	1.000 ea
HW4500A05	1669B ALEM/UNIV860 GR FTG X	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea

LD7020E09	LEAD SET, 10AWG, 9 LEAD, 20" LONG LEADS	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
HA4054	SHORT T-DRAIN FITTING, .125" N.P.T.	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 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
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.050 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP1159L	SS SUPER-E IEC UL CC	1.000 ea
09PA1000	PACKAGING GROUP COMBINED PRINT	1.000 ea
PE-0000003	ZRTG PE ASSEMBLY	1.000 ea

AC Induction Motor Performance Data
Record # 30679
Typical performance - not guaranteed values

Winding: 09WGZ571-R001	**Type:** 0960M	**Enclosure:** TEFC

Nameplate Data				**460 V, 60 Hz: High Voltage Connection**	
Rated Output (KW)			15	**Full Load Torque**	59.1 LB-FT
Volts			230/460	**Start Configuration**	direct on line
Full Load Amps			50/25	**Breakdown Torque**	218 LB-FT
R.P.M.			1770	**Pull-up Torque**	76.9 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	118 LB-FT
NEMA Design Code	A	**KVA Code**	H	**Starting Current**	167 A
Service Factor (S.F.)			1.15	**No-load Current**	11.3 A
NEMA Nom. Eff.	93	**Power Factor**	81	**Line-line Res. @ 25ºC**	0.335 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	61°C
S.F. Amps				**Temp. Rise @ S.F. Load**	73°C
				Locked-rotor Power Factor	31.8
				Rotor inertia	2.62 LB-FT2

Load Characteristics 460 V, 60 Hz, 15 KW

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	41	64	75	81	86	85	84
Efficiency	87.3	92	93	93.1	92.8	91.6	92.9
Speed	1792	1785	1779	1772	1765	1754	1768
Line amperes	12.8	15.8	20.1	24.7	29.6	37.2	27.6

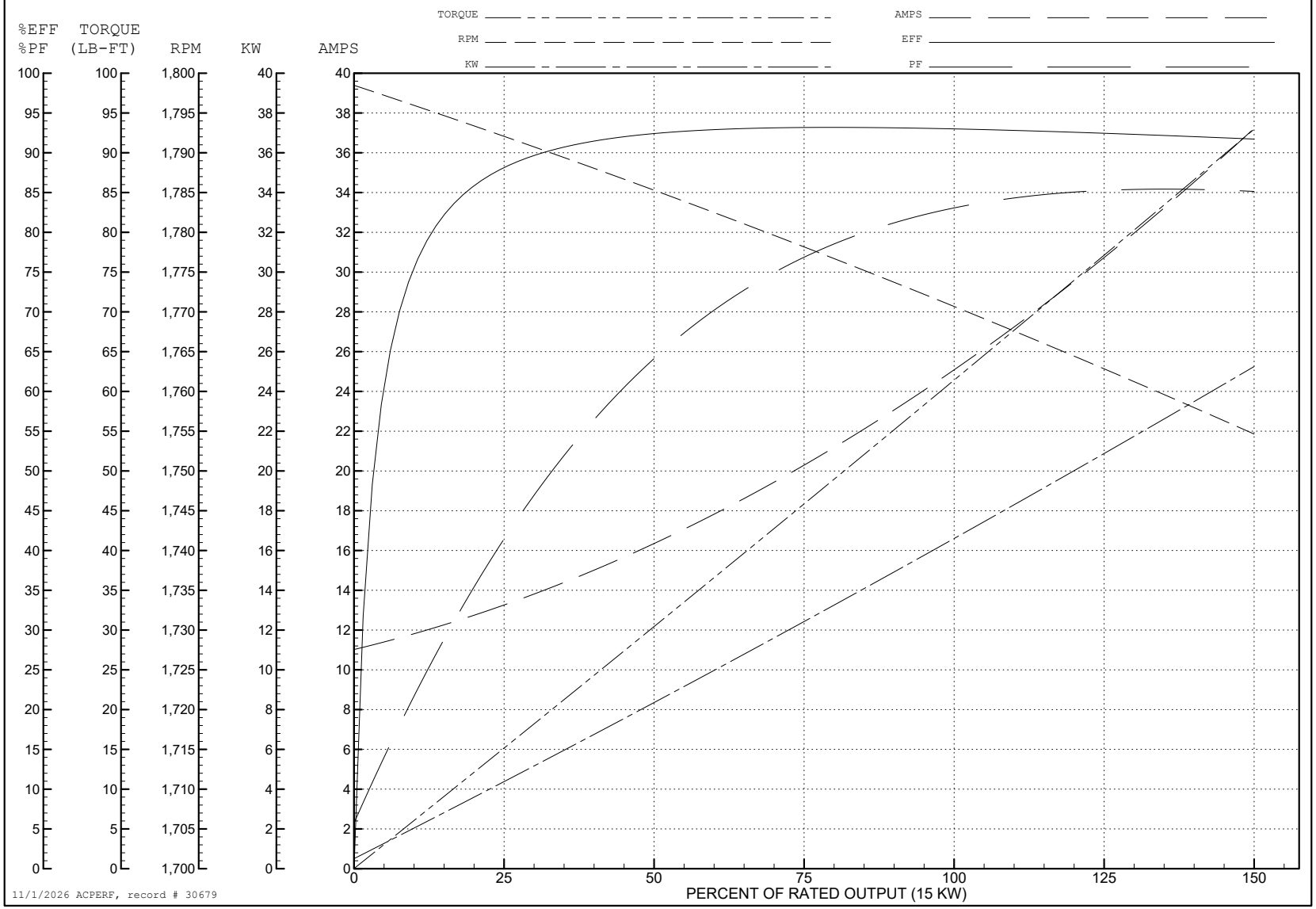
ABB Motors and Mechanical Inc.

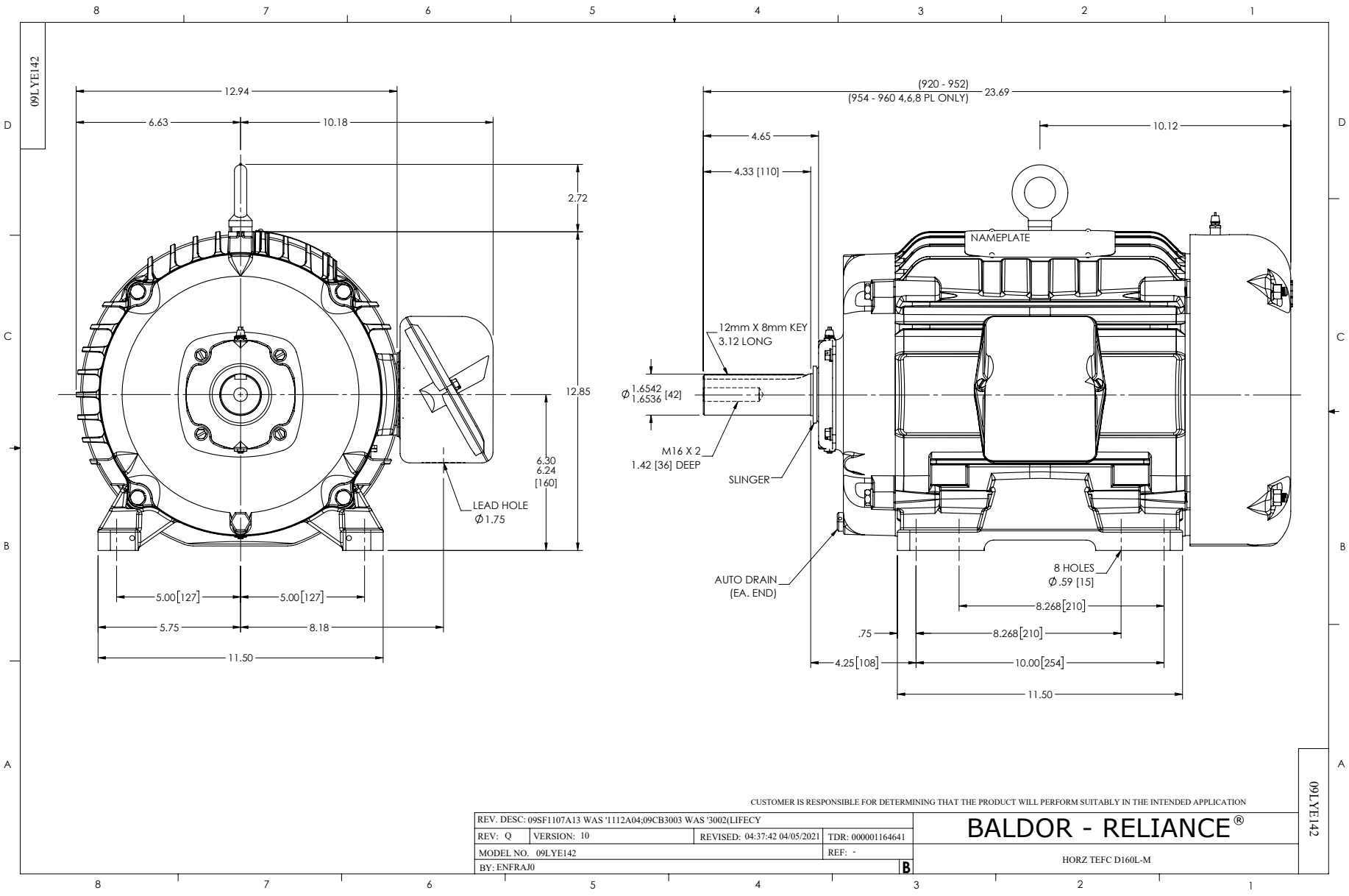
WINDING # 09WGZ571

15 KW 3 PH 60 HZ 1770 RPM 460 V 0960M

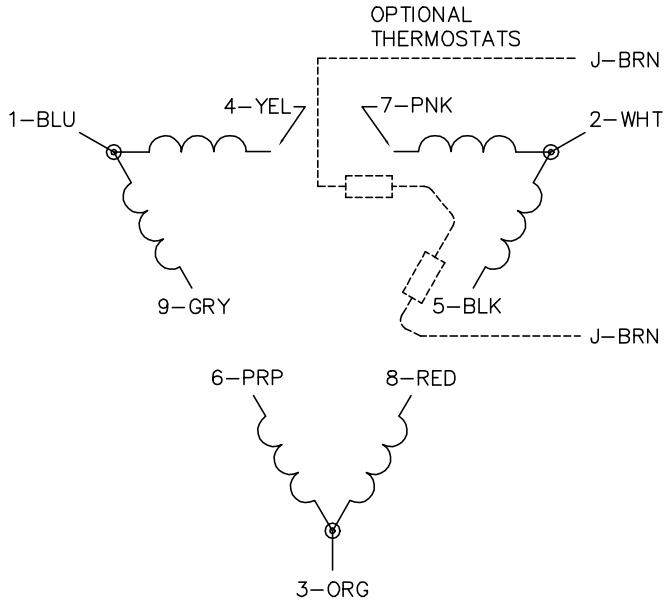
Typical performance - not guaranteed values.

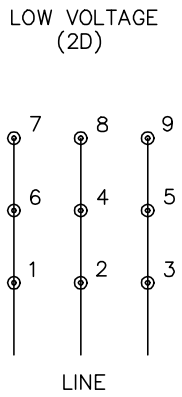
TORQUES(LB-FT): PO=218 PU=76.9 LR=118 LRA=167

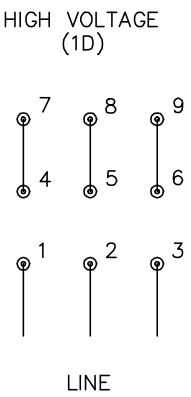



09LYE142
12.94
6.63
10.18
2.72
12.85
6.30
6.24
[160]
LEAD HOLE
Ø1.75
5.00[127]
5.00[127]
5.75
8.18
11.50
(920 - 952)
(954 - 960 4,6,8 PL ONLY)
23.69
4.65
4.33 [110]
10.12
NAMEPLATE
12mm X 8mm KEY
3.12 LONG
Ø 1.6542
1.6536 [42]
M16 X 2
1.42 [36] DEEP
SLINGER
AUTO DRAIN
(EA. END)
8 HOLES
Ø.59 [15]
8.268[210]
.75
8.268[210]
4.25[108]
10.00[254]
11.50
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT THE PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: 09SF1107A13 WAS '1112A04;09CB3003 WAS '3002(LIFECY
REV: Q
VERSION: 10
REVISED: 04:37:42 04/05/2021
TDR: 000001164641
MODEL NO. 09LYE142
REF: -
BY: ENFRAJ0
B
BALDOR - RELIANCE®
HORZ TEFC D160L-M
09LYE142

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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