ABB BALDOR RELIANCE

Customer information packet

EM2559TS-4

125HP, 1775RPM, 3PH, 60HZ, 405TS, 4488M, OPSB

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Specifications

Enclosure	OPSB
Frame	405TS
Frame Material	Steel
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	125.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
Agency Approvals	CURUSEEV
	NEMA PREMIUM
	NEMA PREMIUM (OLD LOGO)
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	143.000 A @ 460.0 V
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	95.4 %
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	143.0 a
Insulation Class	F
Inverter Code	Inverter Ready
IP Rating	NONE

Part Detail

Revision	X
Type	AC
Mech. spec.	44F006
Base	
Status	PRD/A
Elec. spec.	44WGW047
Layout	44LYF006
Eff. date	11-19-2024
CD Diagram	CD0382
Poles	04
Leads	6#4
Proprietary	False
Created date	08-03-2010

KVA Code	G
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Exit	Ko Box
Motor Lead Quantity/Wire Size	6 @ 4 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	4488M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	34.97 IN
Power Factor	86
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	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	1775 rpm
Speed Code	Single Speed
Starting Method	Wye Start - Delta Run
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.	EM2559TS-4			**P/N**				**ENCLOSURE**	OPSB			
SPEC.	44F006W047G1	**CC**	010A		**FRAME**	405TS		**S/N**				
HP	125			**CLASS**	F		**HZ**	60				
RPM	1775			**PH**	3		**DES**	B				
VOLT	460				**KVA-CODE**	G		**ODE BRG**	6312	**DE BRG**	6316	
AMP	143											
RATING	40C AMB-CONT				**GREASE**	POLYREX EM						
NEMA-NOM-EFF	95.4	**PF**	86	**SER.F.**	1.15							
	50HZ 100HP 380V 138A SF 1.0											
HTR-VOLTS		**HTR-AMPS**										

Parts List

Part number	Description	Quantity
SA200835	SA 44F006W047G1	1.000 ea
RA188146	RA 44F006W047G1	1.000 ea
HA6731	LIFTING LUG FOR 44 FRAME MOTORS.	2.000 ea
HA6648A01	CAST ADAPTER, 44 FRAME - NEMA 404-5 - MA	1.000 ea
19XW3816A12	.38-16 X .75 HEX WASHER HEAD TAPTITE II	2.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	2.000 ea
18CB1006A04	CB 318 3.62 LD HOLE, .38 MTG HOLE & 3.88	1.000 ea
19XW3118A16	.31-18 HEX WASHER HEAD TAPTITE II 1.00 L	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
WD1000B25	GND LUG, BURNDY L125HP OR T&B L125HP-BB	1.000 ea
10XN3118K08	5/16-18 X .50 GRADE #5, STL, ZINC PLATE	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 ea
44EP1203A02	FREP, MACH	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW5100A15	W4997-050 WVY WSHR (WB)	1.000 ea
10XN3816K48	3/8-16 X 3 HEX HD CAP SCREW,Z/P	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
44EP1202A01	PU ENDPLATE, MACH.	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
XY5013A12	NUT,1/2-13,HEX,STEEL,ZINCPLATED	8.000 ea
18CB1506A01	CB LID 318 FOR 18CB1006	1.000 ea
10XN3118K16	5/16-18 X 1' GRADE #5, STL, ZINC PLATE	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HW2501H24	KEY, 1/2 SQ X 2.750	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.030 lb
44AD2001A01	BAFFLE 44 OPEN,"X"=1.00, SLOTTED BAND MT	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea

HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *5 GALLON BUCKET*	0.080 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
HA3175A05	THRUBOLT STUD 1/2-13 X 27.000 - GRADE 2	4.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0382	CONNECTION LABEL	1.000 ea
NP2138LUA	ALUM SUPER-E UL PREM CC (300SER)	1.000 ea
44PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea

AC Induction Motor Performance Data
Record # 13893
Typical performance - not guaranteed values

Winding: 44WGW047-R001	**Type:** 4488M	**Enclosure:** OPSB

Nameplate Data				**460 V, 60 Hz: Single Voltage Motor**	
Rated Output (HP)			125	**Full Load Torque**	369 LB-FT
Volts			460	**Start Configuration**	direct on line
Full Load Amps			143	**Breakdown Torque**	1004 LB-FT
R.P.M.			1775	**Pull-up Torque**	454 LB-FT
Hz	60	**Phase**	3	**Locked-rotor Torque**	540 LB-FT
NEMA Design Code	B	**KVA Code**	G	**Starting Current**	914 A
Service Factor (S.F.)			1.15	**No-load Current**	46 A
NEMA Nom. Eff.	95.4	**Power Factor**	86	**Line-line Res. @ 25ºC**	0.0379 Ω
Rating - Duty			40C AMB-CONT	**Temp. Rise @ Rated Load**	48°C
S.F. Amps				**Temp. Rise @ S.F. Load**	64°C
				Locked-rotor Power Factor	25.5
				Rotor inertia	16.6 lb-ft²

Load Characteristics 460 V, 60 Hz, 125 HP

% of Rated Load	**25**	**50**	**75**	**100**	**125**	**150**	**S.F.**
Power Factor	56	77	84	86	87	86	87
Efficiency	93.5	95.5	95.7	95.4	94.9	94.1	95.1
Speed	1794	1789	1783	1777	1770	1762	1773
Line amperes	56.3	79.8	109.4	142.6	177.7	216	163.7

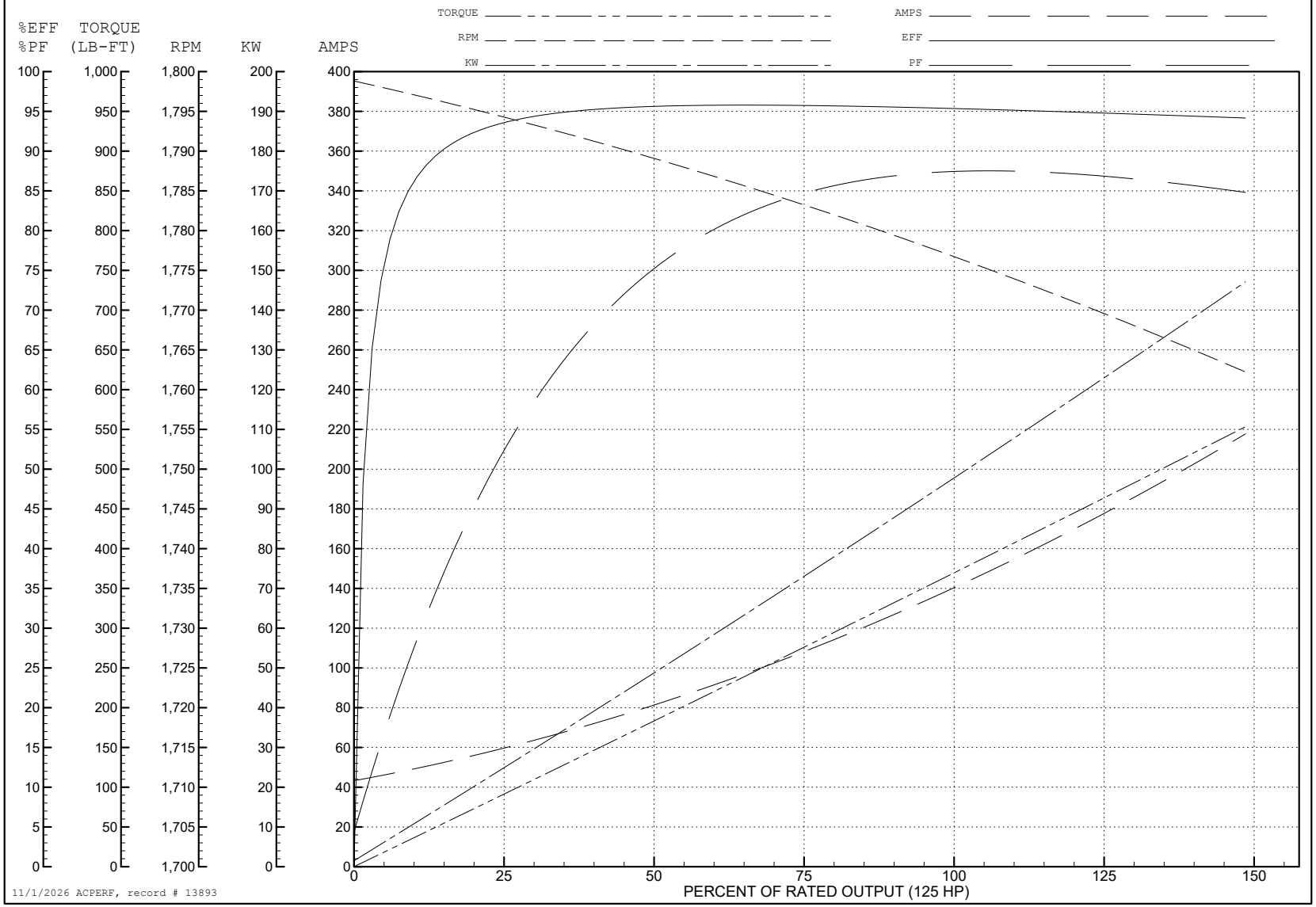
ABB Motors and Mechanical Inc.

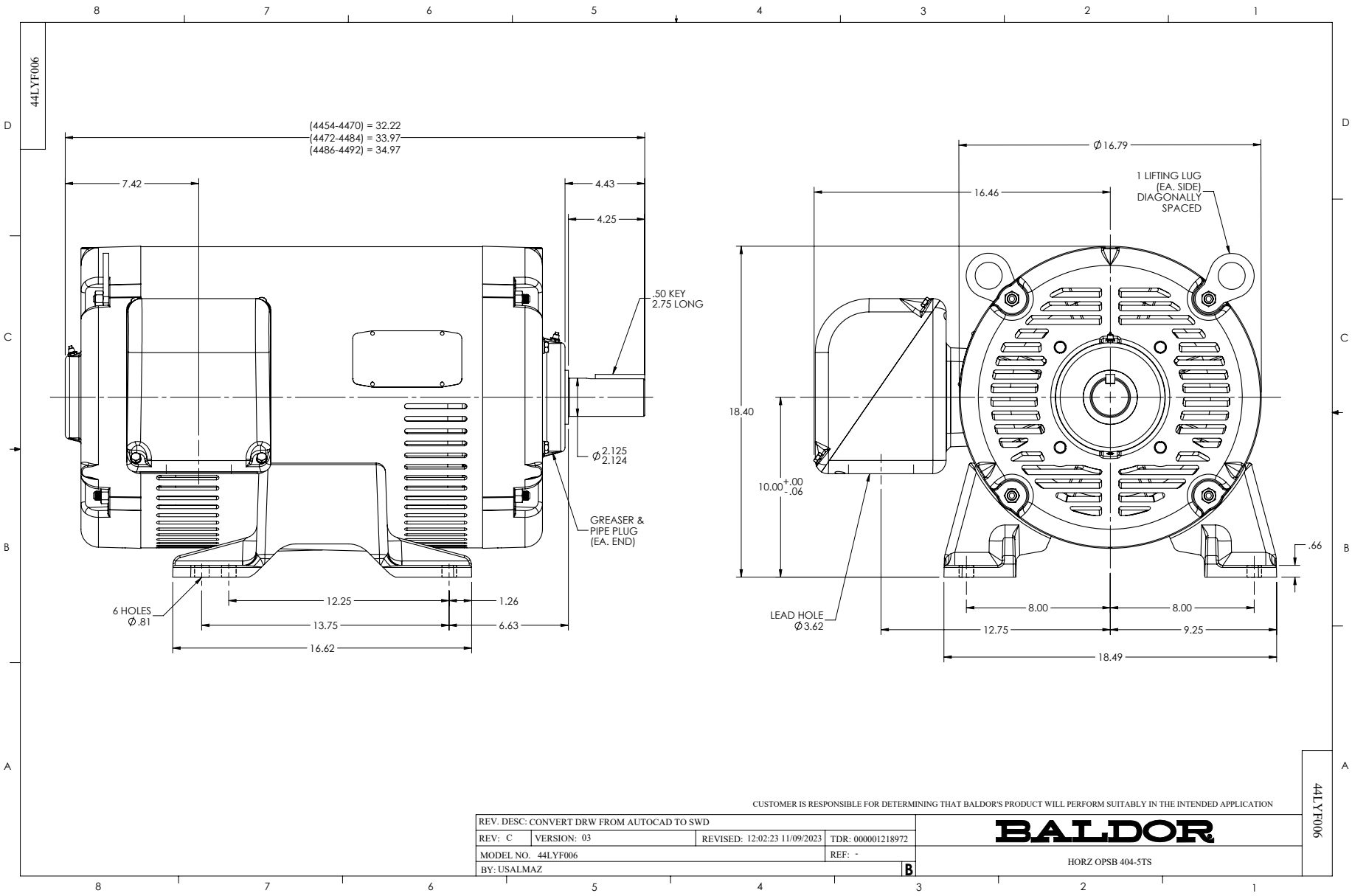
WINDING # 44WGW047

125 HP 3 PH 60 HZ 1775 RPM 460 V 4488M

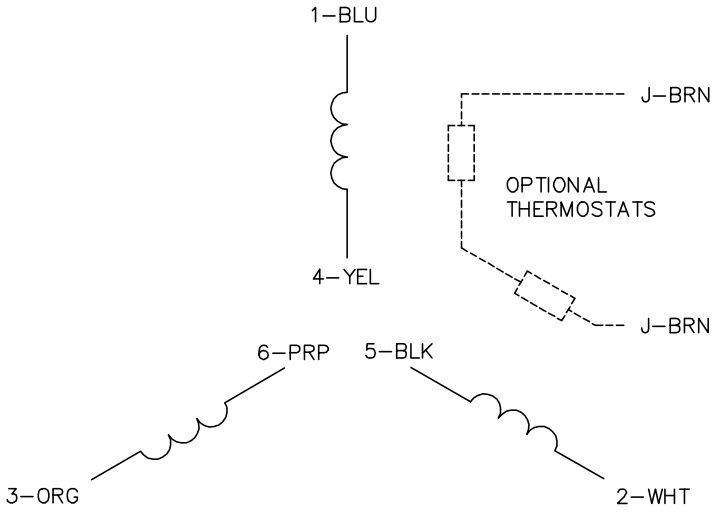
Typical performance - not guaranteed values.

TORQUES(LB-FT): PO=1004 PU=454 LR=540 LRA=914

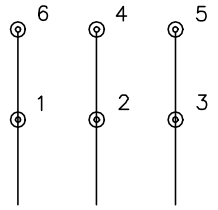



44LYF006
(4454-4470) = 32.22
(4472-4484) = 33.97
(4486-4492) = 34.97
7.42
4.43
4.25
.50 KEY
2.75 LONG
Ø2.125
2.124
GREASER &
PIPE PLUG
(EA. END)
6 HOLES
Ø.81
12.25
1.26
13.75
6.63
16.62
Ø16.79
16.46
1 LIFTING LUG
(EA. SIDE)
DIAGONALLY
SPACED
18.40
10.00 +.00 -.06
.66
LEAD HOLE
Ø3.62
8.00
8.00
12.75
9.25
18.49
CUSTOMER IS RESPONSIBLE FOR DETERMINING THAT BALDOR'S PRODUCT WILL PERFORM SUITABLY IN THE INTENDED APPLICATION
REV. DESC: CONVERT DRW FROM AUTOCAD TO SWD
REV: C
VERSION: 03
REVISED: 12:02:23 11/09/2023
TDR: 000001218972
MODEL NO. 44LYF006
REF: -
BY: USALMAZ
B
BALDOR
HORZ OPSB 404-5TS
44LYF006

CD0382

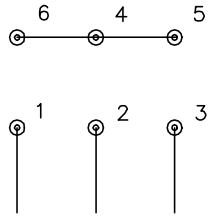


RUN CONNECTION
(1D)



LINE

START CONNECTION
(1Y)



LINE

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.
5. FOR ACROSS–THE–LINE STARTING, USE 'RUN' CONNECTION.

CD0382

REV. DESC: ADD CLASS CONN00000007		
REV. LTR: F	VERSION: 01	TDR: 000001099922
FILE: \AAA\00005\243	REVISED: 09:05:32 02/19/2019	BY: ENBRIR0
MTL: –		

BALDOR - RELIANCE®

3PH, SV, 6 LEADS, Y START/D RUN

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