



Customer information packet

SPM4107T

25HP, 3545RPM, 3PH, 60HZ, 284TS, 1048M, TEFC, F

PFC EQUIPMENT INC

Class - None

Division - Not Applicable

Specifications

Enclosure	TEFC
Frame	284TS
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	25.000 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 CURUSEEV NEMA PREMIUM NEMA_PREMIUM WEEE
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	56.000 A @ 230.0 V 28.000 A @ 460.0 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
Front Shaft Indicator	None

Part detail

Revision	A
Type	AC
Mech. spec.	10T011
Base	
Status	PRD/A
Elec. spec.	10WGZ894
Layout	10LYT011
Eff. date	03-28-2024
CD Diagram	CD0180
Poles	02
Leads	9#10
Proprietary	False
Created date	09-26-2023

Haz Area Temp Code	T3A
Heater Indicator	No Heater
High Voltage Full Load Amps	28.0 a
Insulation Class	F
Inverter Code	Inverter Duty
KVA Code	J
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Quantity/Wire Size	9 @ 10 AWG
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1048M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.75 IN
Power Factor	88
Product Family	Chemical Processing (Not DC)
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
Service Factor	1.15
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	No Slinger
Speed	3545 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

NP4439B05C23L

CAT #	SPM4107T										SER #											CC	010A	WGT	396	LBS													
SPEC	10T011Z894										FRAME	284TS										ENCL	TEFC	IP	55														
RATING	40C AMB-CONT																				NEMA NOM. EFF										93								
HP	25										VOLTS	230/460																											
AMPS	56/28										RPM	3545										HZ	60																
PH	3	CL	F	CODE	J	DES	A	PF	88	%	SER.F.										1.15	SF AMP	64/32																
DE BRG	6311										ODE BRG	6311										LUBE	POLYREX EM																
INV TYPE:	VPWM										SL HZ	1										CHP	60	TO	90	1.5:1													
WK2	2.07										LBFT2	MAX RPM										5400	CT	6	TO	60	10:1												
MAG CUR	19/9.5										VT	3	TO	60	20:1																								
																				MEETS INTENT OF IEEE-45										FOR WEATHER PROTECTION									

Parts list

Part number	Description	Quantity
SA419590	SA 10T011Z894	1.000 ea
RA411531	RA 10T011Z894	1.000 ea
37FN3002C03	EXFN, PLASTIC, 6.00 OD, 1.690 ID	1.000 ea
10CB1000A352P	CONDUIT BOX, MACH W/EPOXY PRIMER	1.000 ea
09GS1010	GASKET, DWG, LEADWIRE SEPERATOR	1.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	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
19XW3118G08	.31-18X.50,HEX WSHR HD,TAPTITE 2,GREEN	1.000 ea
10EP1110A142LP5	FREP, MACH W/PRIMER & PAINT	1.000 ea
10XN3816K32	BOLT, 3/8-16X2 HH YZ(5)	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HA2009A33	SLINGER, FOR GROUP E MOTORS - 311 BRG.	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HA4017A11	1/8 X 2.75 GREASE EXT (F/S)	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 ea
HW5100A13	W4627-047 WVY WSHR	1.000 ea
10XN2520K36	1/4-20 X 2.00 HX HD SCRW GRADE 5, ZINC P	2.000 ea
10XN3118K40	5/16-18 X 2.50" HEX HD, GRADE 5	4.000 ea
10EP1110A216P	PU ENDPLATE, MACH W/PRIMER	1.000 ea
10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
80XN1032J06	10-32 X 3/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HA2009A33	SLINGER, FOR GROUP E MOTORS - 311 BRG.	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea

10FH1007LP5	FAN COVER, W/MG1025L14, PRIMED CASTING	1.000 ea
10XN3118K20	5/16-18 X 1 1/4 GRADE 5 STEEL ZC PLATED	3.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10CB1503A01P	CONDUIT BOX LIPPED LID, MACH W/EPXY PRMR	1.000 ea
14GS1003	GASKET CONDUIT BOX LID, NEOP	1.000 ea
10XN2520K16	1/4-20 X 1" HX HD SCRW GRADE 5, ZINC P	4.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	4.000 ea
HW2501G17	KEY, 3/8 SQ X 1.875	1.000 ea
MG1500Y02	WILKOPON PRIMER YELLOW	0.010 ga
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.031 qt
MJ5002A01	SILICON RUBBER SEALANT, 732CL 10.3 OZ TU	0.033 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.130 lb
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
HA6390A01	HOSE CLAMP FOR 3.12 DIA S.S. OR PLATED	1.000 ea
MG1050Y01	CELEROL BALDOR GOLD *** NLA IN 5 GALLON	0.070 ga
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
NP4439B05C23L	SS SUPER PREM,CONN 05(CD0180),AGENCY C,	1.000 ea
10PA1000	PACKAGING GROUP COMBINED PRINT PK1023A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500bx)4/22	1.000 ea
LB1636	LABEL, SUPER PREMIUM SP4, 1.75 X 1.75	1.000 ea

AC Induction Motor Performance Data

Record # 101436

Preliminary Data Sheet

Winding: 10WGZ894-R001				Type: 1048M		Enclosure: TEFC	
Nameplate Data				460 V, 60 Hz: High Voltage Connection			
Rated Output (HP)		25		Full Load Torque		36.52 LB-FT	
Volts		230/460		Start Configuration		direct on line	
Full Load Amps		56/28		Breakdown Torque		178 LB-FT	
R.P.M.		3545		Pull-up Torque		69.5 LB-FT	
Hz		60		Phase		3	
NEMA Design Code		A		KVA Code		J	
Service Factor (S.F.)		1.15		Starting Current		244 A	
NEMA Nom. Eff.		93		Power Factor		88	
Rating - Duty		40C		AMB-CONT		Temp. Rise @ Rated Load	
S.F. Amps		64/32		Temp. Rise @ S.F. Load		69°C	
				Locked-rotor Power Factor		22.6	
				Rotor inertia		2.06 lb-ft²	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	53	77	85	88	90	91	89
Efficiency	85.1	91.5	92.7	93.1	92.8	92.1	92.9
Speed	3586	3572	3560	3544	3530	3514	3536
Line amperes	11.73	16.2	21.57	28.06	34.58	41.48	32

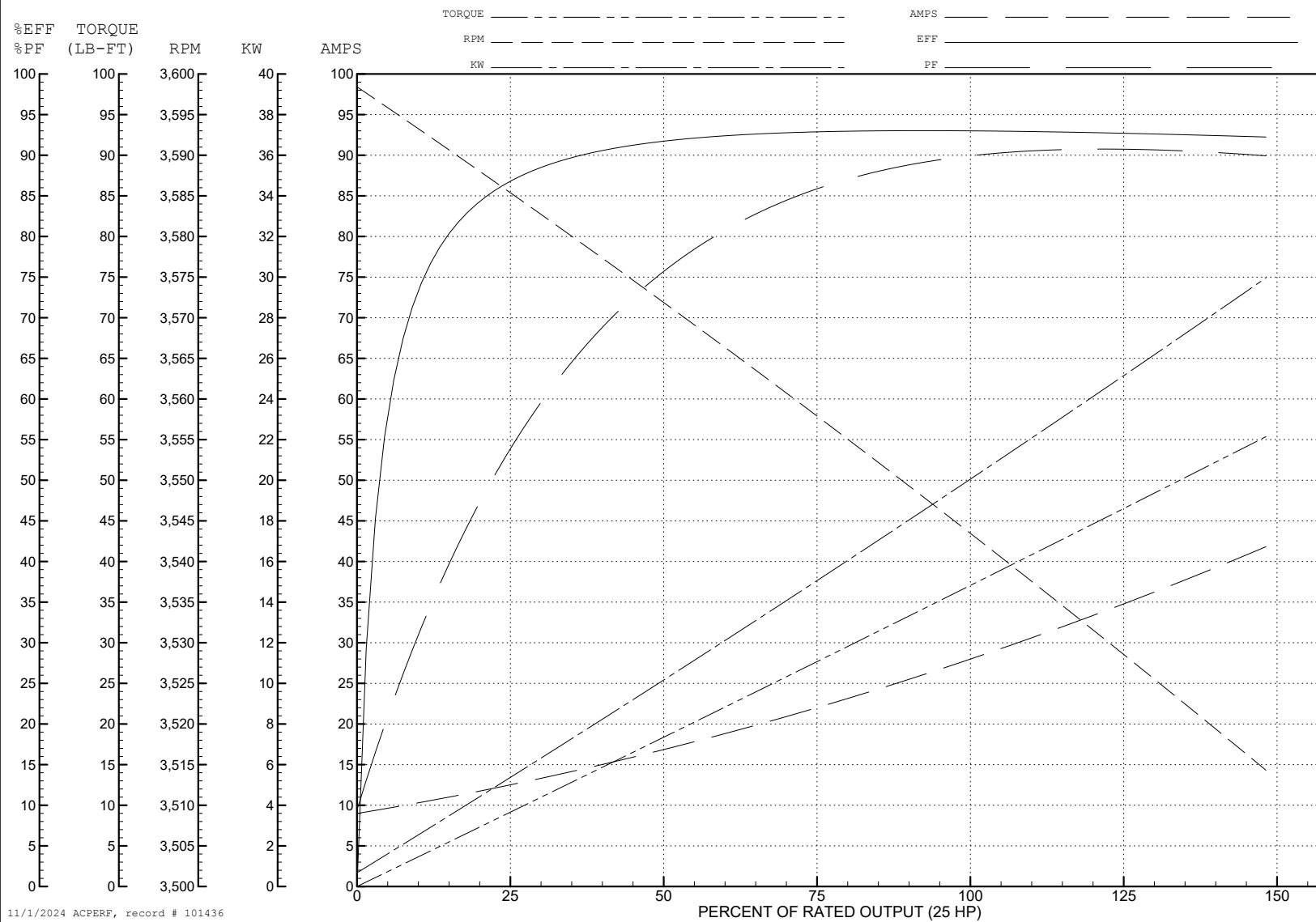
ABB Motors and Mechanical Inc.

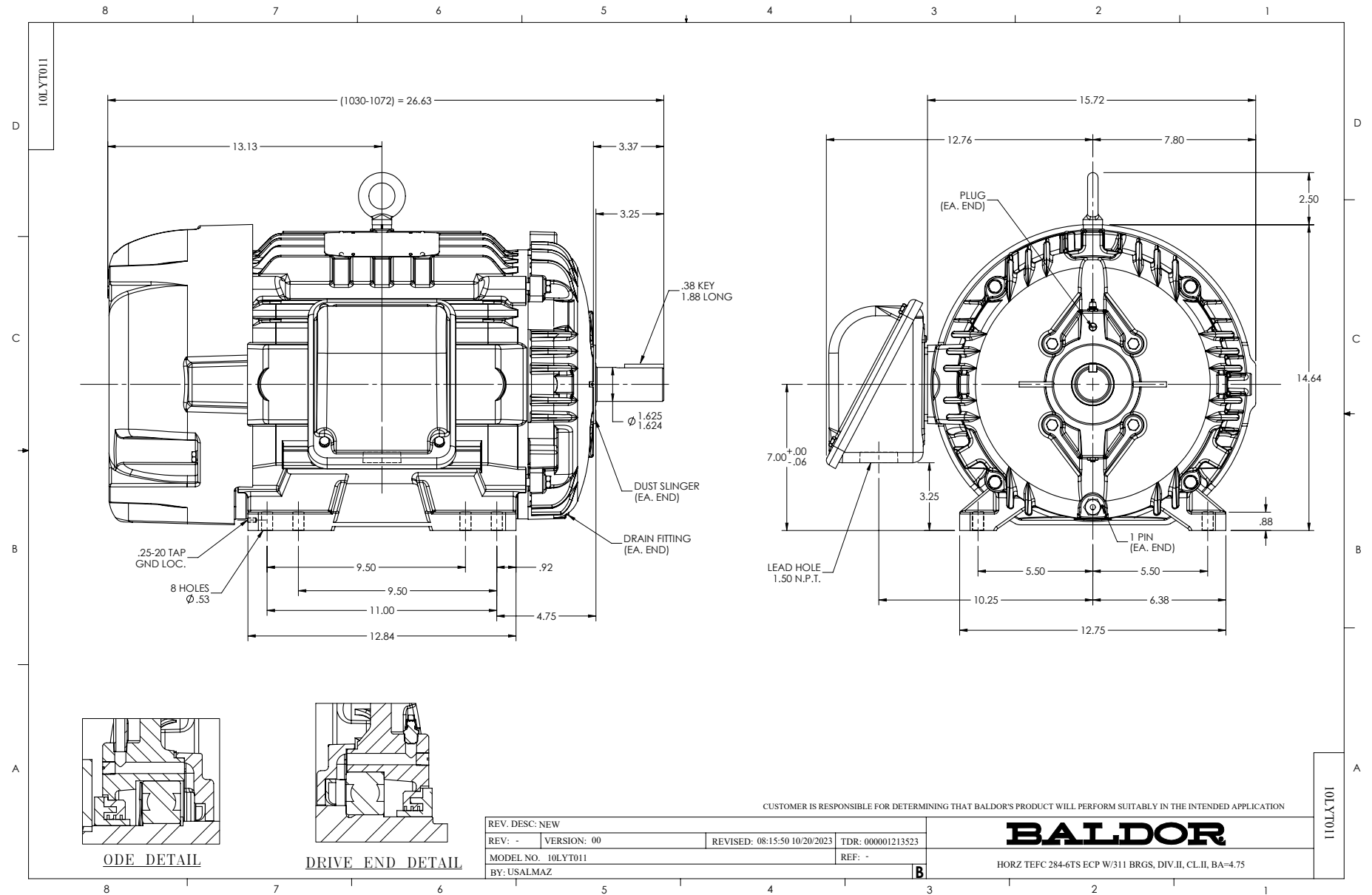
WINDING # 10WGZ894

Typical performance - not guaranteed values.

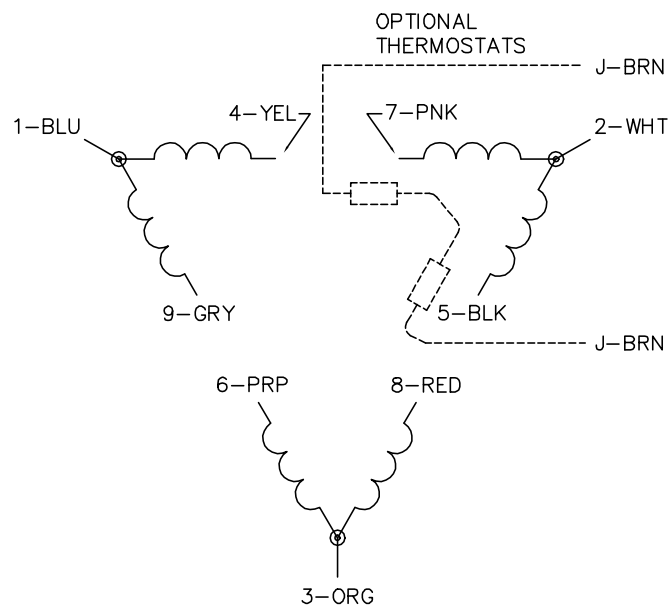
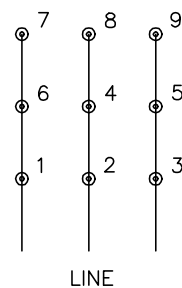
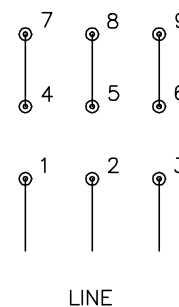
25 HP 3 PH 60 HZ 3545 RPM 460 V 1048M

TORQUES (LB-FT): PO=178 PU=69.5 LR=88.2 LRA=244





CD0180

LOW VOLTAGE
(2D)HIGH VOLTAGE
(1D)

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: ENBRIRO

MTL: —

**BALDOR - RELIANCE®**

3PH, DV, 9 LEADS, DELTA CONNECTION

SH 1 of 1