

ABB BALDOR RELIANCE III

Customer information packet

CPX322566T

25HP, 1180//985RPM, 3PH, 60HZ, 324TY, XPFC, F1

Class - CLI GP C,D; CLII GP E,F,G

Division - Division I

Specifications

Enclosure	XPFC
Frame	324TY
Frame Material	Iron
Frequency	50.00 Hz 60.00 Hz
Haz Area Class and Group	CLI GP C,D; CLII GP E,F,G
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	20.000 HP @ 50 HZ 25.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1200 RPM @ 60 HZ
Voltage @ Frequency	380.0 V @ 50 HZ 230.0 V @ 60 HZ 460.0 V @ 60 HZ 190.0 V @ 50 HZ
Agency Approvals	CSA EEV UL
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
Constant Torque Speed Range	6
Current @ Voltage	69.000 A @ 208.0 V 63.000 A @ 230.0 V 62.000 A @ 190.0 V 32.000 A @ 460.0 V 31.000 A @ 380.0 V
Design Code	A
Drip Cover	No Drip Cover

Part Detail

Revision	J
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	12WGY116
Layout	12LY-000-157
Eff. date	06-11-2025
CD Diagram	CD0180
Poles	06
Leads	9#8
Proprietary	False
Created date	04-24-2019

Duty Rating	CONT
Efficiency @ 100% Load	93.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Enclosure Modification	Severe Duty Features
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	31.0 a
Insulation Class	F
Inverter Code	Inverter Duty
IP Rating	IP55
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	1800 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	1260M
Mounting Arrangement	F1
Number of Poles	6
Overall Length	32.24 IN
Power Factor	79
Product Family	Chemical Process Features
Pulley Face Code	Standard
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	2.125 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	1180 rpm
Speed Code	Single Speed
Starting Method	Direct on line
Thermal Device - Bearing	None

Thermal Device - Winding	Normally Closed Thermostat
Vibration Sensor Indicator	No Vibration Sensor
Winding Thermal 1	None
Winding Thermal 2	None

Nameplate

NP2033XPSLEV													
NO.							CC	010A					
S/N							TEMP CODE	T3C					
SPEC.	12-0000-0653						INV.TYPE	PWM					
CAT.NO.	CPX322566T						C HP FR	60	C HP TO	90			
HP	25//20						CT HZ FROM	6	CT HZ TO	60			
VOLTS	230/460//190/380						VT HZ FROM	6	VT HZ TO	60			
AMPS	63/32//62/31						MAG CUR	28/14					
RPM	1180//985						MX RPM	1800					
HZ	60//50	PH	3	CL	F	NOM.EFF.	93						
SER.F.	1.00	DES	A	SL HZ	1	WK2	11.5						
FRAME	324TY	RATING		40C AMB-CONT									
BLANK	55C AMB @ 1.00 SF, 60C RISE												
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55						

Parts List

Part number	Description	Quantity
SA368867	SA 12-0000-0653	1.000 ea
RA358398	RA 12-0000-0653	1.000 ea
LC0181	CONNECTION LABEL	1.000 ea
NP2033XPSLEV	SS XP INV UL CSA-EEV CC CL-I GP-C&D	1.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	2.000 ea
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2500 bx)11/25	1.000 ea
LB1081C	ALUM XP CAUTION LABEL (COL PLANT ONLY-	1.000 ea
14PA2000	PKGP, CTN ID 42X34X25, STD BASE	1.000 ea
10XN3816E08	3/8-16 X .50 HEX HD SCREW BRONZE	1.000 ea
HW1001B38	WASHER, 3/8 SPLT LK, CS, .678OD X .382ID	1.000 ea
12FH1001A07P	FAN COVER, MACH W/EPOXY PRIMER & SLOT FO	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	3.000 ea
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	3.000 ea
09FN3001B03SP	EXTERNAL FAN, PLASTIC (COMES W/SCREW FRO	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.200 lb
10XN5013J44	1/2-13X2.75 HX HD BOLT, GR8,1.25" THD LG	4.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
HA2009A50	SLINGER FOR GROUP E MTRS - 311 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
HW5100A13	W4627-047 WVY WSHER	1.000 ea
HA4017A03	.125 X 1.75 GREASE EXT (F/S)	1.000 ea
HA4017A08	.125 X 3.50 LGTH GREASER EXTEN.	1.000 ea
HW4019A01	PIPE COUPLING 1/8 NPT,STEEL,ZINC COATING	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A21	1618BALEMITE FITTING 825 UNIVERSAL	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4505A02	BREATHING/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12EP1706A09P	EP, MACH. XPFC 312 BRG.	1.000 ea

HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	4.000 ea
10XN5013J44	1/2-13X2.75 HX HD BOLT, GR8,1.25" THD LG	4.000 ea
HA2009A49	SLINGER FOR GROUP E MTRS - 312 BRG.	1.000 ea
80XN0632J10	6-32 X 5/8 SET SCREW, HEX SOC, CUP PT	2.000 ea
10XN3118K40	5/16-18 X 2.75" HEX HD, GRADE 5	4.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	4.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A03	GREASE FITTING, .125 NPT 1610(ALEMITE) 8	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	1.000 ea
HW4505A02	BREATHING/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
12EP1705A23LP5	ENDPLATE, MACH.312-EXPL.PROOF 311 BRG.-G	1.000 ea
12CB1003A01P	KOBX,MACH 2.00 NPT GROUP C MTRS,EPOXY PR	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	4.000 ea
WD1000B19	TERMINAL BURNDY L250HP	1.000 ea
10XN3816K08	3/8-16 X .50 HEX HD CAP SCREW GRADE 5	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	1.000 ea
12CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS	1.000 ea
84XN5013J32	SOCKET HD.CAP SCR,1/2-13 X 2"LG,ALLOY ST	10.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	10.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.125 ga
HW2501H34	KEY, 1/2 SQ X 4.00	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

AC Induction Motor Performance Data

Record # 44636

Typical performance - not guaranteed values

Winding: 12WGY116-R013			Type: 1260M		Enclosure: XPFC			
Nameplate Data			460 V, 60 Hz: High Voltage Connection					
Rated Output (HP)		25	Full Load Torque		111 LB-FT			
Volts		230/460	Start Configuration		direct on line			
Full Load Amps		63/32	Breakdown Torque		308 LB-FT			
R.P.M.		1180	Pull-up Torque		117 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		171 LB-FT		
NEMA Design Code		A	KVA Code	H	Starting Current		198 A	
Service Factor (S.F.)		1	No-load Current		13.8 A			
NEMA Nom. Eff.		93	Power Factor		79	Line-line Res. @ 25°C		0.27033 Ω
Rating - Duty		40C	AMB-CONT		Temp. Rise @ Rated Load		46°C	
					Locked-rotor Power Factor		28	
					Rotor inertia		11.5 LB-FT2	

Load Characteristics 460 V, 60 Hz, 25 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	65	75	79	81	81
Efficiency	89.1	92.8	93.5	93.2	92.6	91.5
Speed	1195.4	1191.8	1188.2	1183.9	1179.3	1172.9
Line amperes	15.6	19.7	25.4	31.9	39.2	49.1

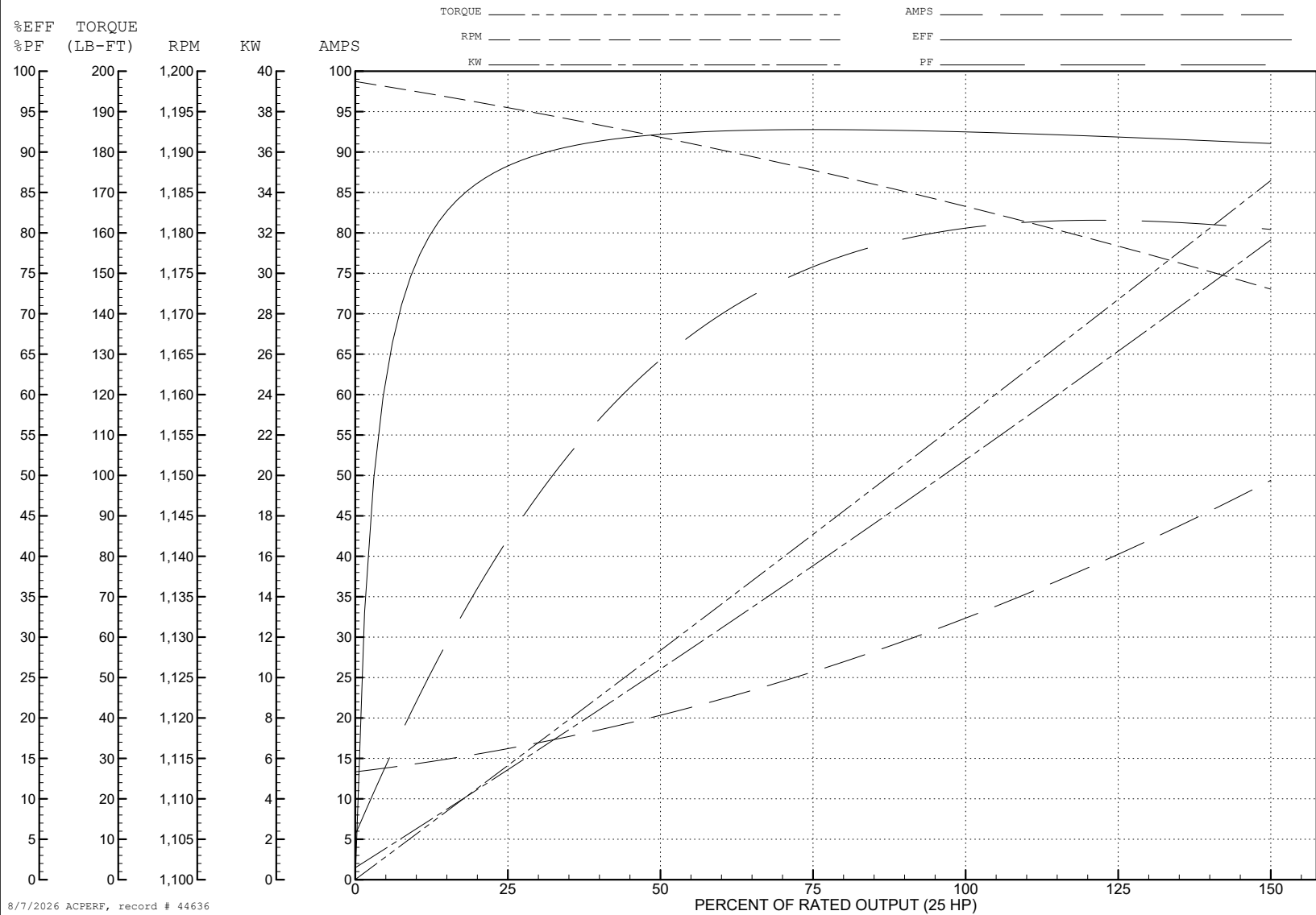
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WINDING # 12WGY116

Typical performance - not guaranteed values.

25 HP 3 PH 60 HZ 1180 RPM 460 V 1260M

TORQUES (LB-FT): PO=308 PU=117 LR=171 LRA=198



AC Induction Motor Performance Data

Record # 75510

Typical performance - not guaranteed values

Winding: 12WGY116-R026				Type: 1260M		Enclosure: XPFC	
Nameplate Data				380 V, 50 Hz: High Voltage Connection			
Rated Output (HP)		25//20		Full Load Torque		107 LB-FT	
Volts		230/460//190/380		Start Configuration		direct on line	
Full Load Amps		63/32//62/31		Breakdown Torque		298 LB-FT	
R.P.M.		1180//985		Pull-up Torque		122 LB-FT	
Hz	60//50	Phase	3	Locked-rotor Torque		179 LB-FT	
NEMA Design Code		A	KVA Code	H	Starting Current		194 A
Service Factor (S.F.)		1		No-load Current		13.66 A	
NEMA Nom. Eff.		93	Power Factor	79	Line-line Res. @ 25°C		0.286 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		44°C	
S.F. Amps				Temp. Rise @ S.F. Load		54°C	
				Locked-rotor Power Factor		31.2	
				Rotor inertia		11.5 LB-FT2	

Load Characteristics 380 V, 50 Hz, 20 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	43	65	74	79	81	81
Efficiency	87.2	91.6	92.4	92.6	91.6	90.4
Speed	996	992	989	984	980	974
Line amperes	15.36	19.25	24.75	31.04	38.2	47.83

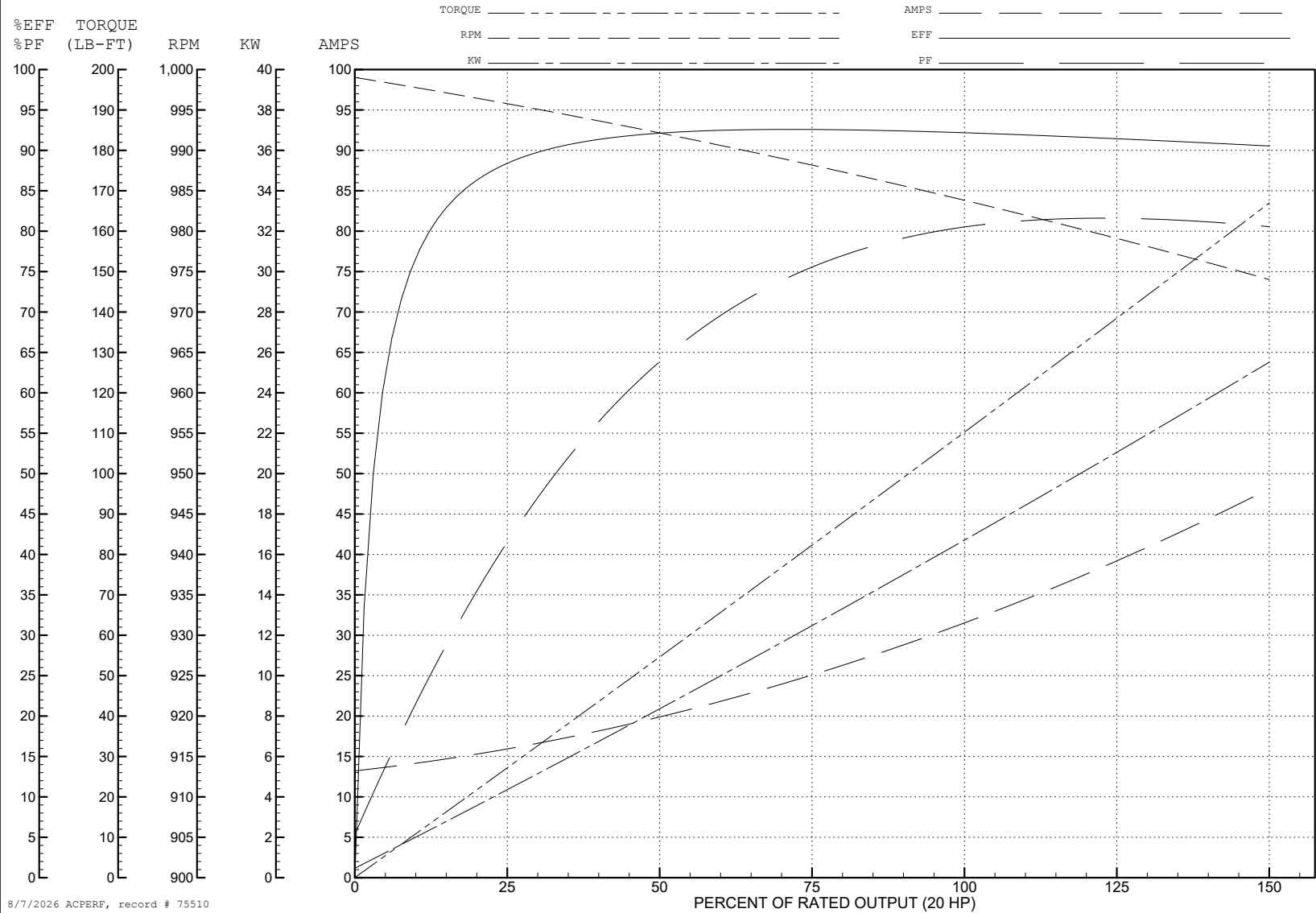
ABB Motors and Mechanical Inc.

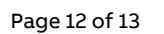
WINDING # 12WGY116

Typical performance - not guaranteed values.

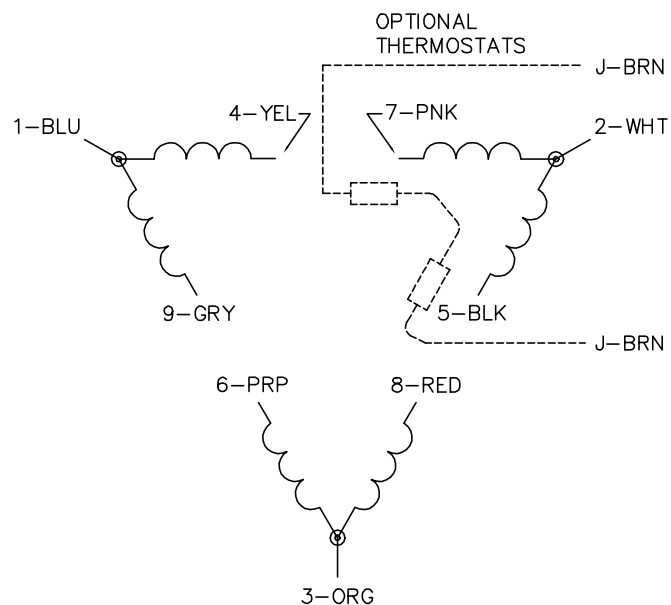
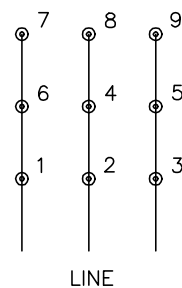
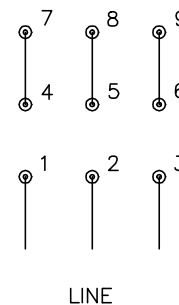
20 HP 3 PH 50 HZ 984 RPM 380 V 1260M

TORQUES (LB-FT): PO=298 PU=122 LR=179 LRA=194





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

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