

ABB BALDOR RELIANCE III

Customer information packet

CDRX251524T-5

15HP, 3530RPM, 3PH, 60HZ, 254TC, XPFC, F1

Class - CLI GP C,D

Division - Division I

Specifications

Enclosure	XPFC
Frame	254TC
Frame Material	Iron
Frequency	60.00 Hz
Haz Area Class and Group	CLI GP C,D
Haz Area Division	Division I
Motor Letter Type	Three Phase
Output @ Frequency	15.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	3600 RPM @ 60 HZ
Voltage @ Frequency	575.0 V @ 60 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	13.700 A @ 575.0 V
Design Code	A
Drip Cover	No Drip Cover
Duty Rating	CONT
Efficiency @ 100% Load	91.0 %
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Haz Area Temp Code	T3C
Heater Indicator	No Heater
High Voltage Full Load Amps	13.7 a
Insulation Class	F
Inverter Code	Inverter Duty

Part Detail

Revision	H
Type	AC
Mech. spec.	
Base	
Status	PRD/A
Elec. spec.	09WGT021
Layout	09LYF368
Eff. date	02-14-2024
CD Diagram	CD0006
Poles	02
Leads	3#12
Proprietary	False
Created date	07-19-2019

IP Rating	NONE
KVA Code	H
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Max Speed	5400 rpm
Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0934M
Mounting Arrangement	F1
Number of Poles	2
Overall Length	26.00 IN
Power Factor	88
Product Family	Hazardous Location Motor
Pulley Face Code	C-Face
Rodent Screen	None
RoHS Status	ROHS NON-COMPLIANT
Service Factor	1.00
Shaft Diameter	1.625 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Speed	3530 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

NP1401XPSLEV														
NO.							CC	010A						
S/N							TEMP CODE		T3C					
SPEC.	09-0000-1601						INV.TYPE		PWM					
CAT.NO.	CDRX251524T-5						C HP FR	60	C HP TO	90				
HP	15						CT HZ FROM		6	CT HZ TO		60		
VOLTS	575						VT HZ FROM		6	VT HZ TO		60		
AMPS	13.7				MAG CUR		4.5							
RPM	3530				MX RPM		5400							
HZ	60	PH	3	CL	F	NOM.EFF.		91						
SER.F.	1.00	DES		A	SL HZ		1.2	WK2	0.87					
FRAME	254TC		RATING		40C AMB-CONT									
	55C AMB @ 1.0 SF, 60C RISE													
	1.15SF ON SINEWAVE						NEMA MG-1 PT.5,IP55							

Parts List

Part number	Description	Quantity
SA372082	SA 09-0000-1601	1.000 ea
RA361806	RA 09-0000-1601	1.000 ea
LB1624	COMBINED WARNING LABEL, ISO/ANSI PICTOGR	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
NP1401XPSLEV	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
LB1081Z	ALUM XP CAUTION LABEL (ZK PLANT ONLY-	1.000 ea
HW3201A01	1/2-13 EYEBOLT	1.000 ea
HW1002A63	WASHER, 5/8 HI-COLLAR SPRICKWASHER	1.000 ea
HA1025A03	FELT WSH 2.1875 OD X 1.170 ID X .25 #321	8.000 ea
09FH1004A08P	FAN COVER, MACH W/EPOXY PRIMER	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 ea
10XN2520K14	1/4-20 X .88 HEX GRD 5 (20001)	3.000 ea
LD7020D03	LEAD SET, 12AWG, 3 LEAD, 20" LONG LEADS	1.000 ea
37FN3002C02	EXFN, PLASTIC, 6.00 OD, 1.503 ID	1.000 ea
HW2500A25	WOODRUFF KEY USA #1008 #BLOW CARBON STEE	1.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.080 lb
WD4100A02	DP-1000 HEYCO PLUG OR 62MP1000 MICRO PL	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
HA2065A03	ALUM SLINGER 208 BRGS DRILL RIG MOTOR	1.000 ea
80XN1032J07	10-32 X 7/16 SET SCREW, HEX SOC, CUP PT	2.000 ea
80XN1032J07	10-32 X 7/16 SET SCREW, HEX SOC, CUP PT	1.000 ea
HW5100A08	W3118-035 WVV WSHR (WB)	1.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
09EP1708A19P	PUEP, MACH W/METAL SLINGER & HW4505A02 W	1.000 ea
HW1001A38	LOCKWASHER 3/8, ZINC PLT .688 OD, .382 I	4.000 ea

10XN3816K28	3/8-16 X 1.75 HEX HD CAP SCREW, GRADE 5	4.000 ea
HA2066A01	ALUM SLINGER 309 BRG DRILL RIG MOTOR	1.000 ea
10XN2520K36	1/4-20 X 2.25" HX HD SCRWGRADE 5, ZINC P	4.000 ea
HW4500A20	1/8NPT SL PIPE PLUG	2.000 ea
HW4505A02	BREATHER/DRAIN-EXP PROOF-.250-18 PTF AIS	1.000 ea
HW3023E06	.125 X .625 SPIRAL SPRING PIN	1.000 ea
09EP1700A65LP5	FR ENDPLATE, MACH, XPFC W/ALUM SLINGER	1.000 ea
09CB1003A01P	KOBX, MACH 1.25 NPT GROUP C MTRS PRIMED	1.000 ea
10XN3118K24	5/16-18 X 1.50" HEX HD, GRADE 5	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
10XN3118K12	5/16-18 X .75 GRADE 5, ZINC PLATED	1.000 ea
HW1001A31	LOCKWASHER 5/16, ZINC PLT.591 OD, .319 I	1.000 ea
09CB1502A01P	CONDUIT BOX LID MACH. GROUP C MTRS W/EP	1.000 ea
84XN5013J24	1/2-13 X 1-1/2 HEX SOCKET HD CAP SCREW	6.000 ea
HW1001A50	LOCKWASHER 1/2, ZINC PLT,.879 OD, .509 I	6.000 ea
MG1025G29	WILKOFAS, 789.229, DARK CHARCOAL GRAY	0.070 ga
40PA1005	PACKAGING GROUP, 09 STD	1.000 ea
HW2501G25	KEY, 3/8 SQ X 2.875	1.000 ea
MJ5000A09	EFI KIT #1578 (400 ML CARTRIDGE OF EFI	0.200 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt

AC Induction Motor Performance Data

Record # 77607

Typical performance - not guaranteed values

Winding: 09WGT021-R003			Type: 0934M		Enclosure: XPFC			
Nameplate Data			575 V, 60 Hz: Single Voltage Motor					
Rated Output (HP)		15	Full Load Torque		22.2 LB-FT			
Volts		575	Start Configuration		direct on line			
Full Load Amps		13.7	Breakdown Torque		97.9 LB-FT			
R.P.M.		3530	Pull-up Torque		31.5 LB-FT			
Hz	60	Phase	3	Locked-rotor Torque		39.1 LB-FT		
NEMA Design Code		A	KVA Code	H	Starting Current		98.1 A	
Service Factor (S.F.)		1	No-load Current		4.45 A			
NEMA Nom. Eff.		91	Power Factor		88	Line-line Res. @ 25°C		0.949 Ω
Rating - Duty		40C AMB-CONT		Temp. Rise @ Rated Load		56°C		
S.F. Amps				Temp. Rise @ S.F. Load		70°C		
				Locked-rotor Power Factor		29.2		
				Rotor inertia		0.868 LB-FT2		

Load Characteristics 575 V, 60 Hz, 15 HP

% of Rated Load	25	50	75	100	125	150
Power Factor	59	79	87	89	90	90
Efficiency	86.4	91.3	91.5	91.5	91.1	90.2
Speed	3582	3566	3548	3530	3511	3489
Line amperes	5.55	7.87	10.6	13.7	16.9	20.5

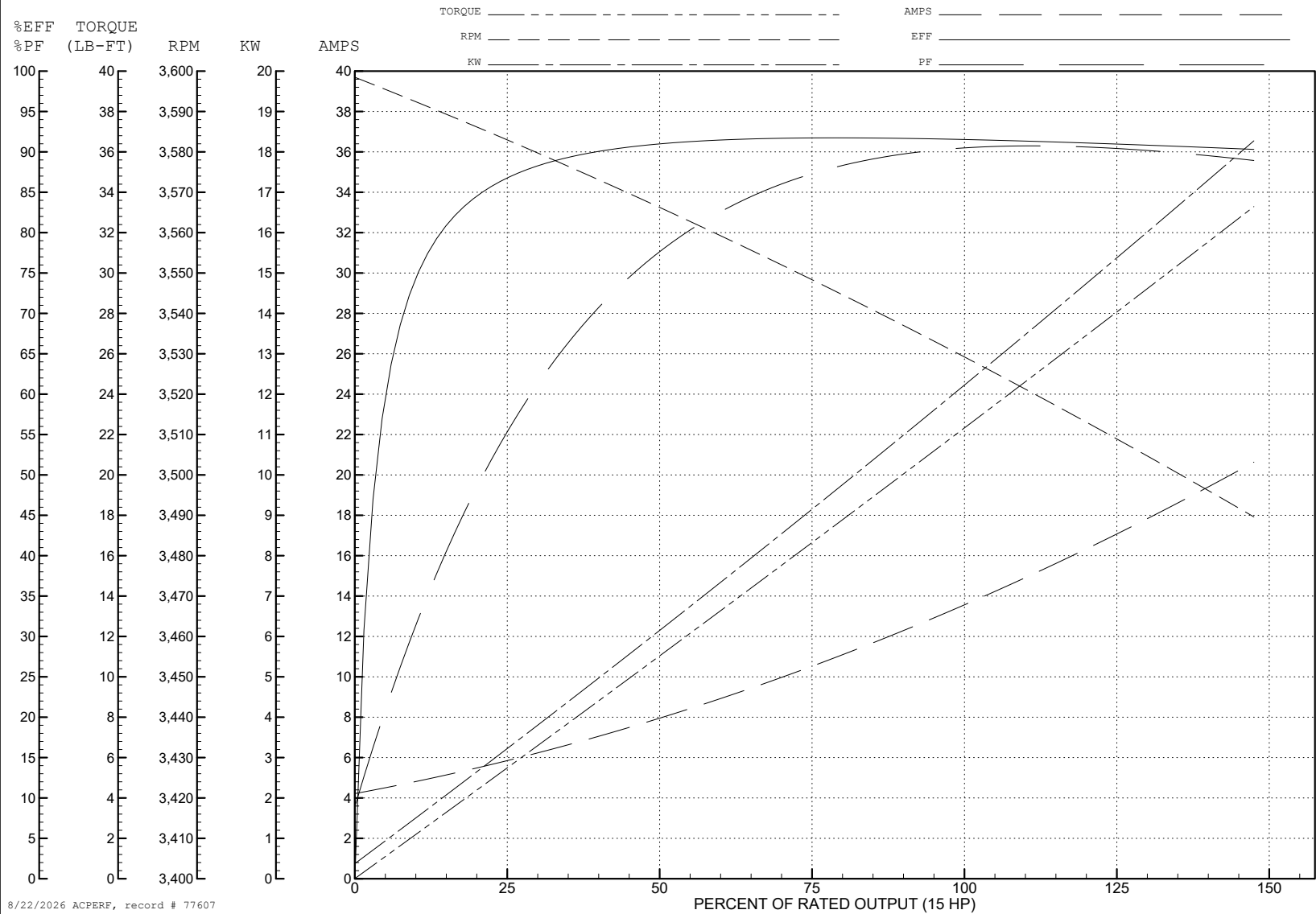
ABB Motors and Mechanical Inc.

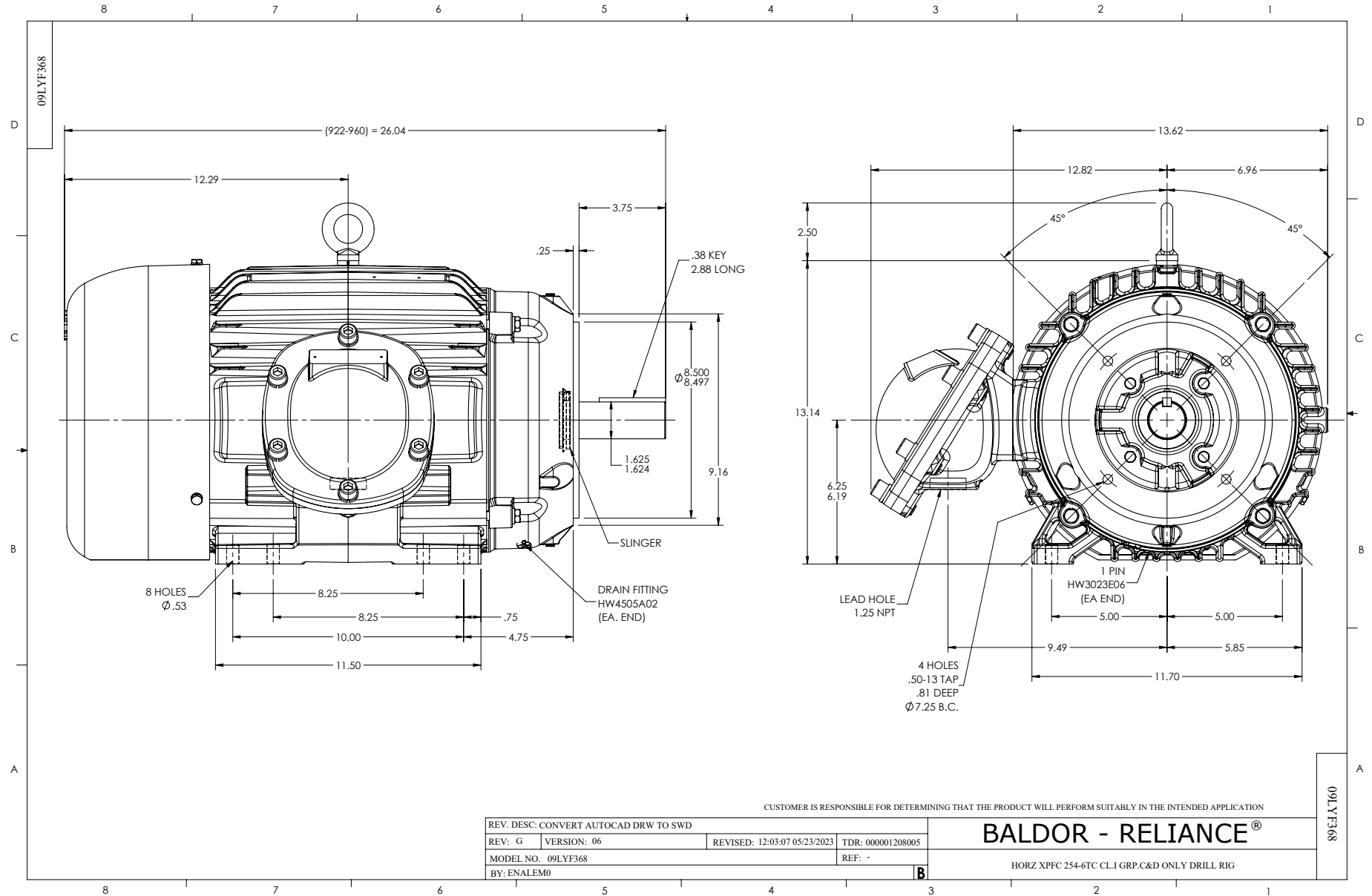
WINDING # 09WGT021

Typical performance - not guaranteed values.

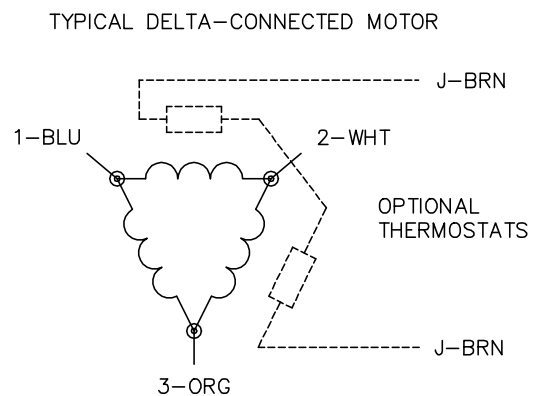
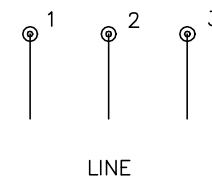
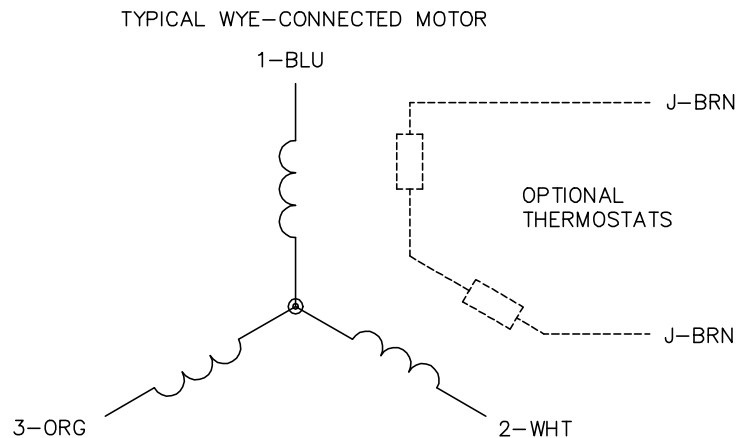
15 HP 3 PH 60 HZ 3530 RPM 575 V 0934M

TORQUES (LB-FT) : PO=97.9 PU=31.5 LR=39.1 LRA=98.1





CD0006


NOTES:

1. THREE LEAD MOTOR MAY BE EITHER WYE CONNECTED OR DELTA CONNECTED.
2. INTERCHANGE ANY TWO LINE LEADS TO REVERSE ROTATION.
3. OPTIONAL THERMOSTATS ARE PROVIDED WHEN SPECIFIED.
4. ACTUAL NUMBER OF INTERNAL PARALLEL CIRCUITS MAY VARY.
5. LEAD COLORS ARE OPTIONAL. LEADS MUST BE NUMBERED AS SHOWN.

CD0006

REV. DESC: ADD CLASS CONN00000007

REV. LTR: E

VERSION: 01

TDR: 000001099922

FILE: \AAA\00005\141

REVISED: 10:24:49 02/19/2019

BY: ENBRIRO

MTL: -


BALDOR - RELIANCE®

3PH, SV, 3 LEADS, WYE OR DELTA CONNECTED

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