



Customer information packet

ECP83581T-4

1HP, 1765RPM, 3PH, 60HZ, 143T, 0522M, TEFC, F1

ELECTRIC MOTOR WHOLESAL.COM

Class - CLI GP A,B,C,D

Division - Division II

Specifications

Enclosure	TEFC
Frame	143T
Frame Material	Iron
Frequency	60.00 Hz
Motor Letter Type	Three Phase
Output @ Frequency	1.000 HP @ 60 HZ
Phase	3
Synchronous Speed @ Frequency	1800 RPM @ 60 HZ
Voltage @ Frequency	460.0 V @ 60 HZ
XP Class and Group	CLI GP A,B,C,D
XP Division	Division II
Agency Approvals	UR CSA CSA EEV
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
Design Code	B
Drip Cover	No Drip Cover
Duty Rating	CONT
Electrically Isolated Bearing	Not Electrically Isolated
Feedback Device	NO FEEDBACK
Front Shaft Indicator	None
Heater Indicator	No Heater
Insulation Class	F
Inverter Code	Inverter Ready
Lifting Lugs	Standard Lifting Lugs
Locked Bearing Indicator	Locked Bearing
Motor Lead Quantity/Wire Size	3 @ 18 AWG

Part detail

Revision	P
Type	AC
Mech. spec.	05E811
Base	
Status	PRD/A
Elec. spec.	05WGX502
Layout	05LYE811
Eff. date	07-01-2022
CD Diagram	CD0006
Poles	04
Leads	3#18
Proprietary	False
Created date	10-24-2018

Motor Lead Termination	Flying Leads
Motor Standards	NEMA
Motor Type	0522M
Mounting Arrangement	F1
Number of Poles	4
Overall Length	12.88 IN
Product Family	Chem Process S/P 32-8 IEEE 841
Pulley End Bearing Type	Ball
Pulley Face Code	Standard
Pulley Shaft Indicator	Standard
Rodent Screen	None
RoHS Status	ROHS COMPLIANT
Service Factor	1.15
Shaft Diameter	0.875 IN
Shaft Ground Indicator	No Shaft Grounding
Shaft Rotation	Reversible
Shaft Slinger Indicator	Shaft Slinger
Speed	1765 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

NP4328E									
CAT.NO.	ECP83581T-4								
SPEC.	05E811X502G1								
HP	1 TE			IP	56				
VOLTS	460								
AMPS	1.6								
R.P.M.	1765								
FRAME	143T		HZ	60		PH	3		
SER.F.	1.15	CODE	N	DES.	B	CLASS	F		
RATING	40C AMB-CONT								
SN									
DE	6205	ODE	6205						
NEMA NOM. EFF.	85.5	P.F.	70						
GUAR. MIN. EFF.	82.5	CC	010A						
T. CODE	T4	TEMP=	135						

NP3186E

SPEC.	05E811X502G1		
ABMA DE BRG	25BC02X30X		
ABMA ODE BRG	25BC02X30X		
GREASE	POLYREX EM		
MOTOR WEIGHT	69	ROTOR BARS	28
		STATOR BARS	36
MAX. R.P.M.	2700	MAX. KVAR	0.47
INV.TYPE	PWM		
T=	135		
CHP	60	TO	90
CT	1.2	TO	60
VT	0-	TO	60
HTR-VOLTS		HTR-AMPS	
HTR-WATTS		MAX. SPACE HEATER TEMP.	

Parts list

Part number	Description	Quantity
SA362262	SA 05E811X502G1	1.000 ea
RA351480	RA 05E811X502G1	1.000 ea
34FN3002B01	EXTERNAL FAN, PLASTIC, .637/.639 HUB W/ 3/8-16 EYEBOLT	1.000 ea
HW3201A05	3/8-16 EYEBOLT	1.000 ea
06CB1001A01G	CONDUIT BOX, MACH GRAY	1.000 ea
RM1016	LEAD SEPARATOR GASKET - 305/306 C.P.MOTO	1.000 ea
51XW2520A12	SCREW, HEX SER SLT HD, ZN, 1/4-20 X .75	2.000 ea
11XW1032G06	10-32 X .38, TAPTITE II, HEX WSHR SLTD U	1.000 ea
HW3001B01	BRASS CUP WASHER, FOR #10 SCREW	1.000 ea
10XN2520S06	1/4 20X3/8 HX HD CAP S.S.	2.000 ea
WD1000B16	T&B CX70TN OR L70P TERMINAL LUG	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
05EP1100A02G	FREP TEFC 205,GRSR,RLF,DRAIN FITTING,INP	1.000 ea
HW4601B22	INPRO SEAL, 205 BRG, MINI66	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4010A01	T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0	1.000 ea
HW5100A05	WVY WSHR F/205 & 304 BRGS	1.000 ea
05EP1100A01G	PUEP ENCL 205,BRG RET,GRSR,RLF,DRAIN FIT	1.000 ea
HW4601B22	INPRO SEAL, 205 BRG, MINI66	1.000 ea
HW4500A01	1641B(ALEMITE)400 UNIV, GREASE FITT	1.000 ea
HA4051A00	PLASTIC CAP FOR GREASE FITTING	1.000 ea
HW4500A17	317400 ALEMITE GREASE RELIEF	1.000 ea
HA4010A01	T-DRAIN PLUG,416 S.S.,W/ 1/4-28 THD & .0	1.000 ea
51XN1032A20	10-32 X 1 1/4 HX WS SL SR	2.000 ea
HA3100A37	THRUBOLT 10-32 X 8.500	4.000 ea
XY1032A02	10-32 HEX NUT DIRECTIONAL SERRATION	4.000 ea
35FH1000A19G	35FH1000A19 W/GRAY FLUIDIZ	1.000 ea
10XN2520A16	1/4-20 X 1 HEX HEAD CAP SCR, ZINC PLATED	3.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	3.000 ea

MJ5001A14	DYNAPRO SEALANT, CP MTR VC#2508050 (603	0.010 ea
WD4100A03	DE-750 HEYCO PLUG 62MP0750 MICRO PLASTIC	1.000 ea
06CB1503A01G	LIPPED CONDUIT BOX LID, MACH GRAY EPOXY	1.000 ea
06GS1009	GASKET, KOBX LID, 1/8" THICK BLACK NEOPR	1.000 ea
HW1001A25	LOCKWASHER 1/4, ZINC PLT .493 OD, .255 I	2.000 ea
HW2501D13	KEY, 3/16 SQ X 1.375	1.000 ea
HA7000A01	KEY RETAINER 7/8" DIA SHAFT	1.000 ea
MJ5001A27	32220KN GRAY SEALER *MIN BUY 4 QTS=1GAL	0.001 qt
MJ1000A73	INPRO P-80 ASSEMBLY LUB./ 1 QT. CONTAIN	0.001 qt
85XU0407S04	4X1/4 U DRIVE PIN STAINLESS	4.000 ea
LB1002N	LABEL,MARINE DUTY (ON ROLLS)	1.000 ea
LB1115N	LABEL,LIFTING DEVICE (ON ROLLS)	1.000 ea
LT0019A00	MOTOR NO-LOAD PERFORMANCE DATA SHEET	1.000 ea
WD1000D21	TRM,T&B #B71M,RING,18-14,.25,NON-INSL	3.000 ea
MJ1000A02	GREASE, POLYREX EM EXXON	0.050 lb
51XB1214A16	12-14X1.00 HXWSSLD SERTYB	1.000 ea
MG1025N19	WILKOFAS, 778.50, RELIANCE BLUE-GREEN 8	0.022 ga
LB1119N	WARNING LABEL	1.000 ea
LC0006	CONNECTION LABEL	1.000 ea
LB1449	DIV-2/NEC WARNING LABEL	1.000 ea
NP4328E	SS IEEE841-2021 DIV-2 UL CSA-C US EEV	1.000 ea
NP3186E	SS IEEE841 INV AUX DATA INFORMATION	1.000 ea
36PA1000	PKG GRP, PRINT PK1016A06	1.000 ea
MN416A01	TAG-INSTAL-MAINT no wire (2200bx) 4/22	1.000 ea
10XN2520A12	1/4-20 X 3/4 HEX HEAD CAP	2.000 ea

AC Induction Motor Performance Data

Record # 84194

Typical performance - not guaranteed values

Winding: 05WGX502-R001		Type: 0522M	Enclosure: TEFC	
Nameplate Data			460 V, 60 Hz: Single Voltage Motor	
Rated Output (HP)	1	Full Load Torque	2.978 LB-FT	
Volts	460	Start Configuration	direct on line	
Full Load Amps	1.63	Breakdown Torque	15.3 LB-FT	
R.P.M.	1765	Pull-up Torque	8.69 LB-FT	
Hz	60 Phase	Locked-rotor Torque	10.3 LB-FT	
NEMA Design Code	B KVA Code	Starting Current	14.4 A	
Service Factor (S.F.)	1.15	No-load Current	1.15 A	
NEMA Nom. Eff.	85.5 Power Factor	Line-line Res. @ 25°C	14.884 Ω	
Rating - Duty	40C AMB-CONT	Temp. Rise @ Rated Load	30°C	
S.F. Amps		Temp. Rise @ S.F. Load	34°C	
		Locked-rotor Power Factor	54.9	

Load Characteristics 460 V, 60 Hz, 1 HP

% of Rated Load	25	50	75	100	125	150	S.F.
Power Factor	28	45	58	67	74	78	71
Efficiency	70.5	81.4	84.7	85.9	86	85.5	86
Speed	1791.4	1783.5	1775.5	1766.9	1757.8	1747.6	1761
Line amperes	1.19	1.29	1.44	1.63	1.85	2.1	1.76

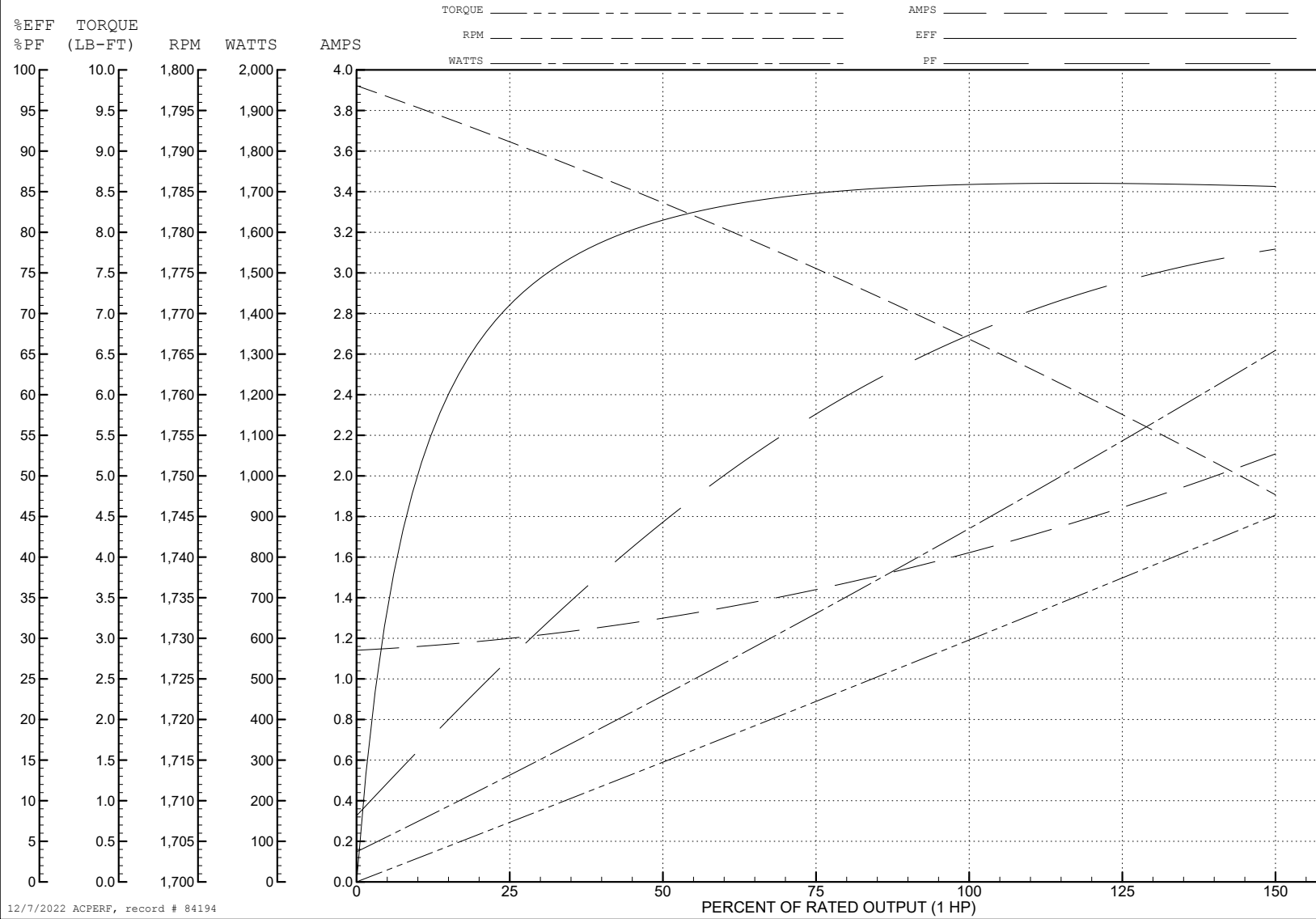
ABB Motors and Mechanical Inc.

WINDING # 05WGX502

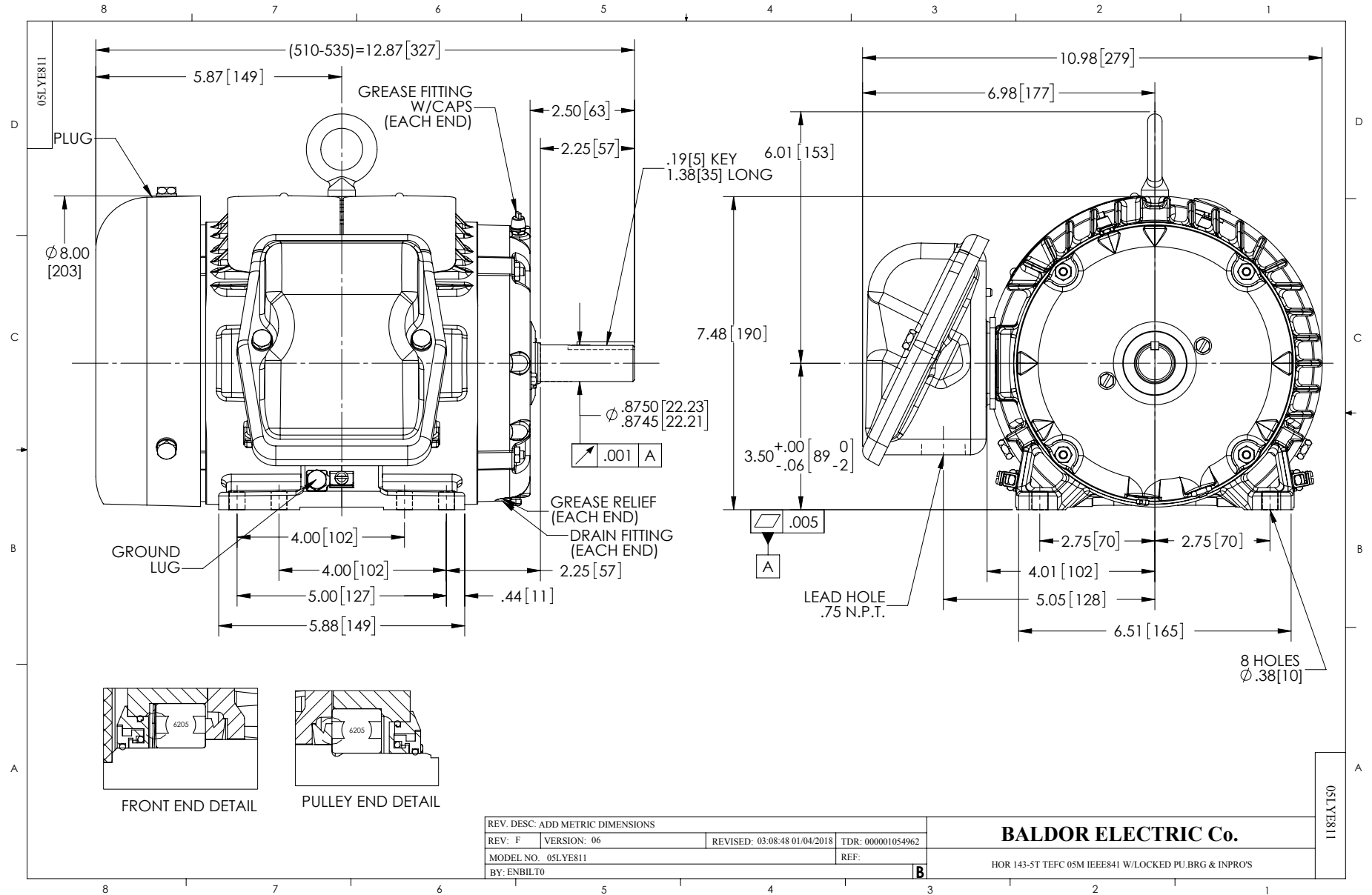
Typical performance - not guaranteed values.

1 HP 3 PH 60 HZ 1765 RPM 460 V 0522M

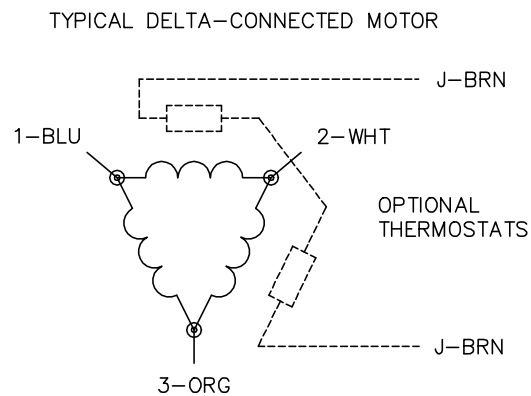
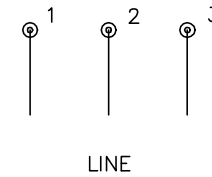
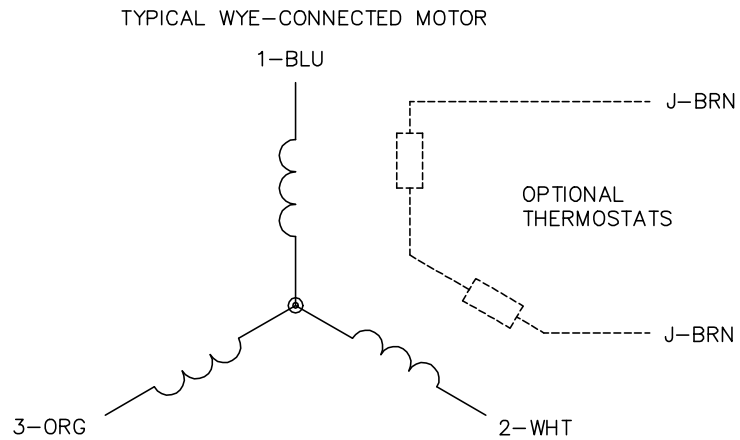
TORQUES (LB-FT): PO=15.3 PU=8.69 LR=10.3 LRA=14.4



12/7/2022 ACPERF, record # 84194



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

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BALDOR - RELIANCE®

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

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